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**ANNUAL REPORT TO
the
U.S. DEPARTMENT OF INTERIOR
MINERALS MANAGEMENT SERVICE
YEAR 2**

**A Geological Investigation of the Offshore Area
along Florida's Central East Coast**

**Henry Freedenberg, Ron Hoenstine
Nikki Strong, Candace Trimble, Zi-Qiang Chen and Adel Dabous**

Florida Geological Survey
Tallahassee, Florida
1997

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ALONG FLORIDA'S CENTRAL EAST COAST**

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YEAR 2**

**Contract Period July 1, 1996 through September 30, 1997
Cooperative Agreement No. 14-35-0001-330757**

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A Geological Investigation of the Offshore Area along Florida's Central East Coast

Annual Report to the United States Department of Interior Minerals Management Service-Year 2

Introduction

The Minerals Management Service of the US Department of Interior (MMS) and the Florida Geological Survey (FGS) have entered into a multi-year cooperative agreement (cooperative agreement # 14-35-0001-330757 / State of Florida Organization Code 3705 0204 578) with the goal of characterizing the beach nourishment potential of sands found in federal waters off the east coast of Florida. This includes federal waters out to eight miles offshore of south Brevard, Indian River, St. Lucie and Martin Counties. Figure 1 displays the area of investigation for this agreement. Year 1 tasks included the compilation of an annotated bibliography describing previously completed work in the study area, along with the implementation of an onshore push-core program to establish a baseline characterization of beach sands in the study area. Results of tasks completed during Year 1 of this investigation are summarized in "*A Geological Investigation of the Offshore Area Along Florida's Central East Coast, Annual Report to the MMS - Year 1*" Hoenstine et al., 1995), delivered to the MMS during October, 1995. FGS Open File Report #69, "*A Geological Investigation of the Offshore Area Along Florida's Central East Coast: Year 1*" (Freedenberg et al., 1995) also summarizes Year 1 results of this investigation. During October of 1995, an interim report ("*A Geological Investigation of the Offshore Area Along Florida's Central East Coast, Interim Report to the U.S. Department of Interior, Minerals Management Service*", Freedenberg et al., 1995) described a bottom sediment grab sampling program which was conducted in federal waters in the northern part of the study area. This annual report presents data collected during Year 2 and the interpretations developed to date.

This report is interim and should be viewed more as a progress report than as a report on the findings of a completed investigation.

Year 2 Scope of Work

Year 2 tasks included continuation of the onshore push core program to characterize beach sediments. Eleven additional push cores were collected in Brevard County, lithologies were described and granulometric analyses were performed. Ten push cores were collected in Indian River County and were archived for future description. Year 2 also saw the acquisition, processing and preliminary interpretation of more than 500 line-miles of digitally recorded seismic data. Nineteen bottom grab samples were also collected with an Ekman dredge. All sediment samples retrieved during the grab sampling program were lithologically described and analyzed for grain size distribution.

Central East Coast Geology

Various Authors have described the onshore geology of Florida's central East Coast counties. Applin *et al.*(1944) describes the regional subsurface stratigraphy of Florida

and southern Georgia. Brown *et al.* (1962) examined the water resources of Brevard County, while Duncan *et al.* (1994) discussed the geologic framework of the lower Floridan aquifer system in Brevard County. Davis (1997) provides a readable account of modern perspectives in Florida geology. The following account borrows from Davis.

The shorefront areas of Brevard, Indian River, St. Lucie and Martin Counties all lie on the Atlantic Coastal Plain. Mixed lithology, quartz-carbonate sand, barrier islands typify the coast of all four counties. All indurated sediments in the study area are generically assigned to the Anastasia Formation. It is likely that, while the Anastasia is generally regarded as Pleistocene in age, it also includes recently cemented (Holocene) beach rock. When examining an Anastasia specimen, there is no convenient way of knowing if the rock was cemented within the last 100 years, or is a much older relict. The Anastasia underlies all modern beach sediments in the study area.

High foredunes are locally developed on barrier islands in the area of investigation. It is these foredunes which prevent overwash and landward migration during routine tidal and acute storm events. Maintenance of these foredunes through restoration and/or stabilization is vital to maintaining beach integrity in the study area.

Sediment transport in the study area is generally to the south but littoral drift may be locally reversed forming closed circulation cells. Cell formation could be caused by variations in subsea topography which serve to focus wave energy (Mehta and Brooks, 1973). Littoral cells would cause areas of convergent sand supply supporting beach ridge growth. Accompanying these convergent sand supply areas are divergent areas where erosion predominates. Stauble and DaCosta (1987) along with Stapor and May (1983) support the existence of local littoral circulation cells, while Dean and O'Brien (1987) focus on the general southward direction of littoral transport in the study area.

Underlying the unconsolidated surface sediments and the indurated Anastasia sediments in the study area is the Neogene Hawthorn Group. The lithology of the Hawthorn group is extremely diverse, including clay, sand, limestone, silt sized dolomite and phosphorites. This lithologic variability is evidence of repeated sea-level fluctuations on an expansive shallow water shelf (Compton, 1997, p.198). Local stratigraphic studies (Hoenstine, 1984; Scott, 1986; Weedman *et al.*, 1995) suggest a late Oligocene to early Pliocene age for the Hawthorn Group Sediments.

The Eocene Ocala Limestone, along with the Avon Park Formation and Oldsmar Limestone are found below the Hawthorn Group. These sediments were laid down on a widespread shallow carbonate platform that existed from Late Cretaceous to Eocene time. The Paleocene in the area of investigation is represented by the Cedar Keys Formation, which consists of a limestone-dolomite sequence. Insufficient control makes the definitive differentiation of sub-Cedar Key sediments in the study area problematic.

Push Core Program

During Year 1 of this study, FGS personnel collected seven push cores in Brevard County. Eleven additional cores were collected during July, 1996 for a total of 18 Brevard County cores. Ten additional push cores in Indian River County were also

recovered during the field portion of this year's work. These cores can be used to provide baseline characterization of beach sediments. All push cores were driven to a depth of ten feet below ground surface or until refusal. All Brevard County cores were split lengthwise, described lithologically and sampled for granulometric analyses. Figure 2 displays the locations of all cores collected in Brevard County during both the present and earlier phases of this study. Cores collected in Indian River County were archived for future description. Results of the lithologic and granulometric characteristics of push cores collected in Brevard County are summarized in Appendix A. Additional granulometric analyses were performed on those sampling intervals containing significant amounts of heavy minerals.

Subsurface Acoustic Profiling

More than 500 line-miles of subsurface acoustic profile data were acquired during Year 2 of this study. All data were acquired in federal waters off of Brevard County. The seismic program consisted of 60 seven-mile-long east-west (dip) lines, one three-mile-long east-west line and two north-south (strike) lines (Fig. 3). The strike lines were 36 and 41 miles in length. Initial data collection was commenced on November 1, 1996. Data collection was halted on November 8, 1996, due to adverse sea conditions which resulted in low field productivity. The program was continued on May 5, 1997, during a period of relatively calm seas. Shooting continued until May 22, 1997. On this date, the FGS was obligated to release the chartered survey vessel so that it could commence work on another project. The data acquisition program included 14 full days, six half-days of data collection along with four standby-days when the survey vessel was unable to leave port due to unfavorable sea conditions. Production rates were significantly reduced during the half days due to marginal sea conditions. Net total time spent acquiring subsurface acoustic profile data was 17 shooting days and seven stand-by days.

All data were collected aboard the United States Geological Survey (USGS) research vessel Gilbert. The Gilbert is a purpose built, shallow draft data acquisition platform. Approximately 50 feet in length and propelled by three Hamilton jet drives, the boat is capable of making 30-35 knots in calm seas. While capable, under certain conditions, of working after sundown, the Gilbert is primarily set up for daylight operation.

Signal energy for the survey was provided by a Hunttec boomer sled towed approximately 30 feet behind the research vessel. A ten station ITI streamer cable was used for signal detection. In an effort to improve signal resolution and provide repetitive imaging of the same depth point, only signals from the five adjacent geophones closest to the research vessel were activated during this shooting program. Fig. 4 illustrates the shooting geometry used in this survey.

Most previous acoustic profiling programs have relied on analog signal recording and processing. During these analog acquisition programs, the equipment operator was obligated to pick recording and final display parameters as the data was being acquired. Analog data were processed as it was recorded and immediately printed onto a paper record. No provision was made for post processing. The paper record generated during shooting was the only interpretational tool available to the interpreter.

During the present digital recording program, all field records were archived on magnetic media (Iomega Jazz drive) for long term storage. Field data can be put in a universally accepted format (SEG-Y) and transferred to a recordable CD-ROM for distribution.

An ELICS Delph II system was used for digital data recording, processing and display. The ELICS system provided an integrated platform for the digital recording and processing of subsurface acoustic profile and seismic data. Data processing parameters were chosen so as to emphasize stratigraphic differences within the sea bottom sediment.

The sled-mounted Huntec boomer signal source was towed at an approximate speed of four knots and fired four times per second. The boomer creates a bubble pulse by using a rapidly moving electromagnetically controlled plate. A capacitive discharge power supply is used to create a current which moves the plate. As the plate is manipulated, cavitation causes bubble formation. The source signal frequency is dependent on plate geometry and activation energy. The capacitive discharge power supply used in this project was set to generate 135 joules. For this survey, the boomer was configured so that most source energy had a frequency of approximately 400 hz. Field data were sampled and converted to a digital format. Signal amplitudes were recorded at a rate of 16000 times per second (this process is commonly called analog-digital conversion or adc) for a record length of 100 milliseconds (ms). This provided 1600 samples per shot record. Given the boat speed of four knots and the 250 ms shot interval, it can be calculated that the seafloor was imaged at consecutive depth imaging points of approximately 1.5 feet. Shooting parameters were chosen in consultation with the USGS.

During the processing of these data, it became apparent that sampling density was greater than that required for effective completion of the assigned task. Increasing the shot and sampling rates should also greatly decrease computer time needed for processing. Future data acquisition will use 0.5 - 1 second shot rates and 4-8 khz adc sampling rates. Record length will be increased to 200-250 ms. Using a 1 second shot rate should provide bottom image points at approximately a six foot spacing, while decreasing the adc sampling interval from 16 khz to 8 khz will decrease the maximum usable frequency ("aliasing frequency") from 8 khz to 4 khz. Collecting future data with longer record times will also make the data more useful to other investigators conducting subsurface geology studies.

Digital signal processing (dsp) allowed the precise specification of processing parameters. Data record processing was carefully controlled using selected dsp techniques including spiking deconvolution for wavelet shaping, adjusting automatic gain control (AGC) strength to preserve dynamic range and application of a digital swell filter to smooth out repetitive wave action. These techniques are much more refined than their analog equivalents. Two final displays, examples of which are included in this report, were generated for each track line. The first series of displays (Fig. 5) were scaled to emphasize the stratigraphic variations in the near-surface sediment. These displays are expanded with respect to more conventional presentations. The display is optimized to assist in the search for near-surface sands suitable for beach restoration. Maximum depth displayed on these sections is approximately 130 feet below the water

surface. The second group of displays shows the entire recorded seismic section. This display was generated for archival purposes. The data processing sequence is described in Table 1.

Preliminary interpretation of subsurface acoustic profile data is under way. Several distinct features which may be helpful in locating sand deposits have been identified. The validity of these features as predictive tools should be confirmed by the vibracore program to be conducted during Year 3 of this project. Surface ("first arrival") and near-surface variations in data amplitude may be found to have a high degree of correlation with areas of sand accumulation. In this report the term "first arrival" is used to refer to the initial and following wavelets reflected off of the water-sediment interface. These would appear within the first two milliseconds of the water-sediment interface on a display section. The first arrival is distinct from the "direct arrival" which refers to the initial energy pulse recorded directly at the geophone array without being reflected off of the water bottom. Other investigators use the term "first arrival" and "direct arrival" interchangeably to refer to what this report terms "direct arrival." Changes in amplitude and frequency of the first arrival are termed first arrival anomalies in this report. All direct arrivals, on this data set, have been filtered out during the processing sequence. They will not be visible on the displays provided with this report. In addition to variations in the first arrival signature, note was made of changes in the reflection character of the uppermost ten ms (approximately 25 feet) of the seismic section. Changes in the reflection character of the uppermost ten ms of the display are referred to as near-surface anomalies. All anomalies are tabulated in Table 2 which was used to assist in locating sites for grab sampling.

Resolution of the data is sufficiently high so that small scale facies mapping may be performed. An area of stratigraphic "onlap" has been identified off the southern portion of Brevard County. Onlap sequences are often accompanied by well developed basal transgressive sands which formed as a part of the beach pushed up before a rising sea. Such sands, if their development can be confirmed, may represent viable sources of material suitable for shoreline restoration. Figure 5 shows an excerpt from expanded profile line B-46 displaying stratigraphic onlap. This display was configured to display every tenth trace. The individual display traces are approximately 15-feet apart. Figure 6 is an excerpt from the the full scale display of the same section showing every fourth trace. The interval between displayed traces is approximately six feet. Figure 7 is an excerpt from the same line processed according to conventional processing parameters. Every trace is displayed. The interval between traces is approximately 1.5 feet. Complete display records for all three presentations of line B-46 are included in Appendix C. Grab samples have not yet been collected from the onlap sequence viewed on this line.

Similarly, several areas of surface/near surface amplitude anomalies have been observed. Amplitude anomalies are caused by changes in the reflection coefficient of successive stratigraphic layers. Well defined anomalies may be observed as the sediment type changes from well compacted sand/hardground to unindurated sand/mud. Mapping amplitude changes only becomes practical with careful control of the empirically determined automatic gain control (AGC) attack/decay rates applied to the display section. This is most easily accomplished through the use of digital signal processing.

In the past, some questions have been raised about the effectiveness of subsurface acoustic profiling as a tool for the location of offshore sands. Prior studies have primarily utilized single fold analog data. Investigators did not have access to the digital signal processing tools necessary for optimum data display and interpretation. The displays presented in previous studies may not have been useful in identifying areas of sand accumulation but this is more a reflection on the processing and display parameters used than on the efficacy of the technique.

Some discussion may be appropriate as to what exactly constitutes "success" in the interpretation of subsurface acoustic profile data. Acoustic profile data are inherently ambiguous and it is unrealistic to expect a single data signature to be uniquely associated with the presence of offshore sand. In the petroleum industry, a seismic technique is considered successful if it can significantly improve the success rate beyond that success rate expected from random sampling. Most investigators would consider a 20-30% improvement significant. Subsurface acoustic profiling can produce "leads" pointing to areas that may contain accumulations of offshore sand. Not every "lead" will work out. Some of the "leads" will identify sand accumulations that are not of sufficient aerial extent, or not of sufficiently high quality to be economically viable. Other "leads" may be found to be totally without merit. For this reason, it is imperative that interpretations obtained from an acoustic profiling program be confirmed with bottom sampling and vibracore programs.

Table 2 identifies those areas which, based on preliminary interpretation of the seismic data, appear to be worthy of further investigation. Anomalies on this figure are classified according to signature.

Grab Sampling

Nineteen grab samples were collected off the Brevard County coast during this phase of the cooperative agreement. This grab sampling program continued the sampling program initiated in 1995. Descriptions and analytical results of samples collected during 1995 are recorded in Freedenberg, (1995). All samples were collected during the period August 19-22, 1997, using a 24' Carolina Skiff belonging to the FGS. A six-inch Ekman dredge sampler was used for sample retrieval. At numerous sample locations, multiple attempts were necessary for the recovery of an amount of sediment sufficient for bottom characterization. During recovery at several sites (GS-1 through GS-5) the jaws of the dredge were found to be repeatedly propped open by shell material. This allowed much of the sand sized material to escape from the dredge. Repeated sampling was necessary for enough recovery to enable the granulometric analysis of sand sized material. All material recovered during successive dredging attempts was saved. The combining of samples collected in such a fashion may lead to exaggerated reporting of the coarser grain size fractions. Proposed grab sample locations were laid out on a map of the study area and assigned consecutive location numbers. Proposed grab sample locations are indicated in Appendix D. For logistical reasons, the grab sample locations were not sampled in consecutive order during implementation of the field phase of the sampling program. The original numbering system was preserved. The reader, therefore, will not find consecutive sample numbering on the grab sample location map. It will also be noted that samples from several of the proposed sampling

sites have not yet been recovered. This was due to equipment and weather conditions while in the field. These sites should be revisited during follow-up sampling in Year 3.

Lithologic and granulometric analyses of sediments collected during the grab sampling program are tabulated in Appendix B. The reporting of the percentage of fines during the first phase of the grab sampling program is reported, as detailed in Freedenberg *et al.*, 1995, as the weight percent of sediment lost during wet sieving. The fine fraction reported in this year's grab sample program is reported as the percentage of sediment passing through a 3.5 phi sieve. This approximates the percentage fines passing through a #200 sieve as discussed in the following paragraph. Preliminary analyses of grab sample data reveal that at least two areas of previously unreported restoration quality sand appear to be present offshore of Brevard County.

The Department of Environmental Protection, Bureau of Beaches and Coastal Systems (BCS) is responsible for permitting restoration and renourishment projects in the State of Florida. Quality standards for restoration sand are defined in section 5J of Florida Administrative Code FAC 62B-41.007. According to this rule, restoration material "...shall, in general, not contain greater than 5 percent fines (passing the #200 sieve) or gravel exclusive of shell material (retained by the #4 sieve) and be free of coarse gravel or cobbles."

It should be emphasized that this rule is based only on the allowable percentages of coarse and fine materials respectively. No attempt is made to address overfill ratios or account for the existence of mixed lithology (silica-carbonate) sediments. These two issues have, so far, not been addressed in any rule promulgated by BCS.

Canaveral Shoals is a well known sand accumulation meeting these standards. A single grab sample was collected on Canaveral Shoals for calibration purposes. Additional grab samples, located on the basis of subsurface acoustic profile anomalies, reveal an extensive deposit of sand to be present 7-8 miles offshore of the Patrick AFB-Cocoa Beach area. A second sand concentration was located approximately four miles offshore of Sebastian Inlet. Both of these areas are in close proximity to beaches requiring restoration/renourishment programs. Determining the depth and lateral extent of both of these sand bodies will be necessary before any estimate of economic value can be made. An extensive vibracore program will therefore be required in order to support any estimate of economic value.

Executive Summary Map

A large scale Executive Summary Map is included as Appendix D of this report. This map summarizes, on one illustration, the locations of all data and sample collection points.

Preliminary interpretation of areas judged favorable for sand accumulation are also included.

General Observations

As development continues along the central Florida coast, there will be an ever increasing demand for beach restoration projects. Onshore and nearshore sources of sand suitable for beach restoration are in short supply. Offshore sand sources have potential as sources of sand for these projects but they have not yet been fully characterized. Based on preliminary work performed by the FGS, it appears that offshore sources of sand suitable for beach restoration are located off Brevard County. Further work is needed to confirm the lateral and vertical extent of these sand deposits. The availability of restoration sand off the southern portion of the study area (Indian River, St. Lucie and Martin Counties) has not yet been established. Year 3 tasks will focus on exploratory work in the southern portion of the study area, along with sand deposit delineation off Brevard County.

Summary and Conclusions

- Tasks assigned to the FGS for Year 2 of the multi-year cooperative agreement have been completed.
- Approximately 500 line-miles of digitally recorded subsurface acoustic profile data has been collected. All data have been digitally processed. Representative paper displays of acoustic profile data have been included with this annual report. Complete paper displays will be provided with the final project report. Preliminary interpretation of these data has identified reflection anomalies indicating possible sand accumulations. These anomalies have been mapped. Subsurface facies suitable for sand accumulation have also been identified and mapped.
- Nineteen grab samples have been collected using an Ekman dredge. Analyses of the results obtained from granulometric analyses of grab samples reveals at least two previously unrecognized areas where beach quality sand may have accumulated.
- Eleven additional on-shore push cores have been collected in Brevard County. Ten on-shore push cores have been collected in Indian River County. All Brevard County cores have been opened. Lithologic descriptions and granulometric analyses have been performed. The Indian River County cores have been archived for analysis during Year 3 of this study.
- It is desirable to collect additional grab samples to locate additional areas of sand accumulation.
- All sand accumulations identified by grab sampling should be confirmed and have their depth and lateral extent delineated by vibracore.
- Subsurface acoustic profiling is a valid tool in the search for offshore sand accumulations.

- It is likely that the present investigation will confirm the existence of additional offshore accumulations of sand suitable for beach restoration.

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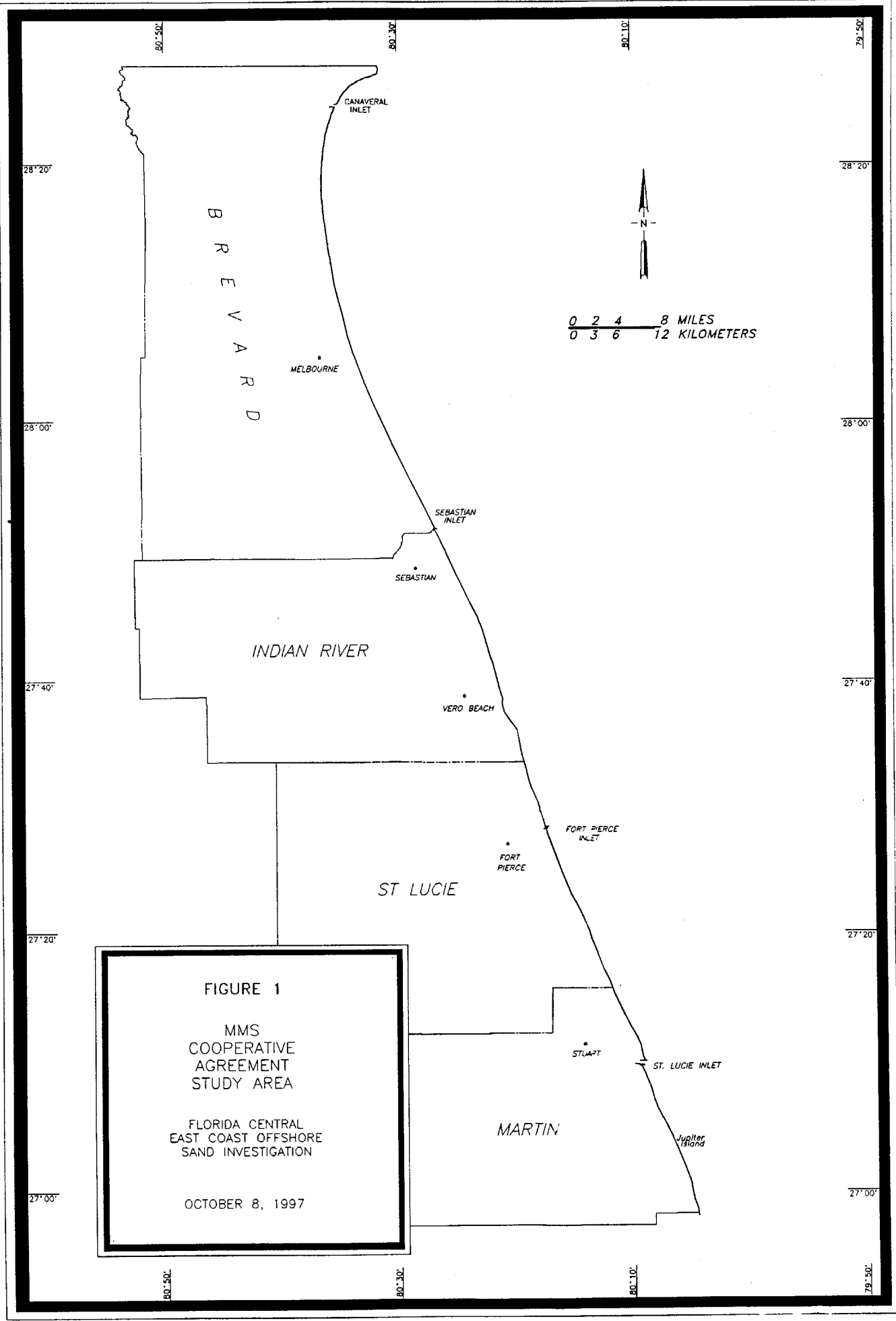


FIGURE 1

MMS
COOPERATIVE
AGREEMENT
STUDY AREA

FLORIDA CENTRAL
EAST COAST OFFSHORE
SAND INVESTIGATION

OCTOBER 8, 1997

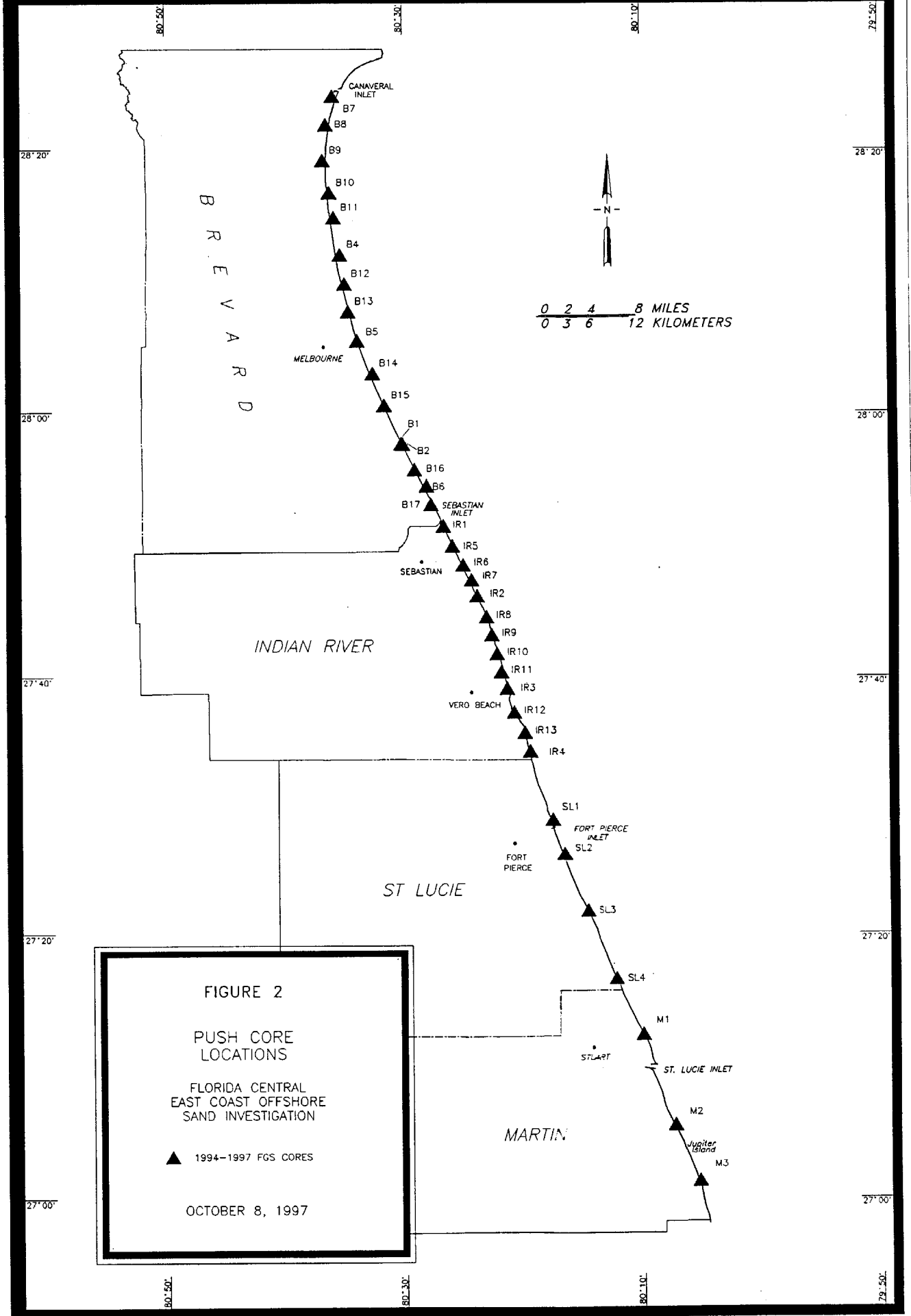


FIGURE 2
 PUSH CORE
 LOCATIONS
 FLORIDA CENTRAL
 EAST COAST OFFSHORE
 SAND INVESTIGATION
 ▲ 1994-1997 FGS CORES
 OCTOBER 8, 1997

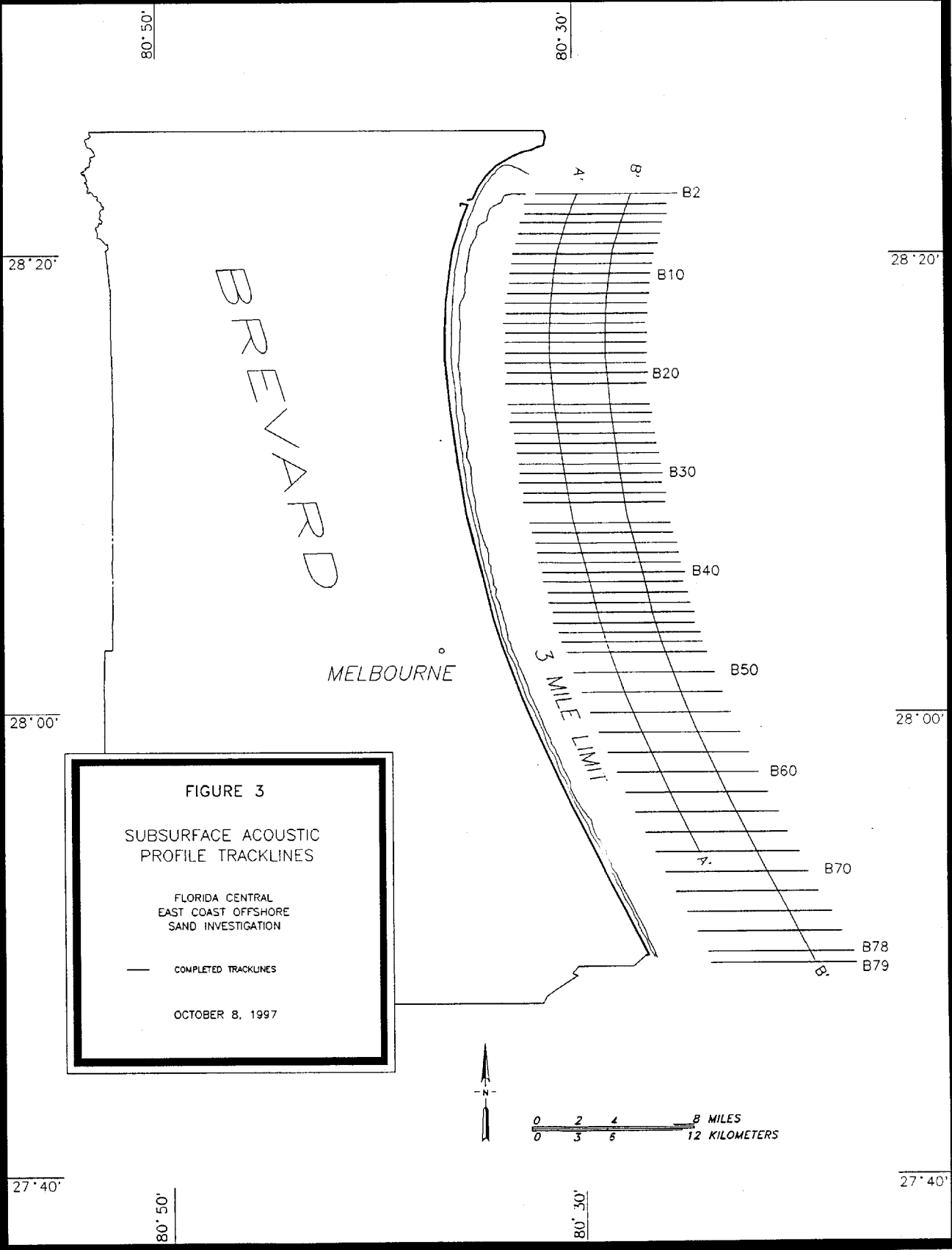
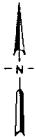


FIGURE 3
SUBSURFACE ACOUSTIC PROFILE TRACKLINES
 FLORIDA CENTRAL
 EAST COAST OFFSHORE
 SAND INVESTIGATION
 — COMPLETED TRACKLINES
 OCTOBER 8, 1997



0 2 4 8 MILES
 0 3 6 12 KILOMETERS

Huntec boomer source

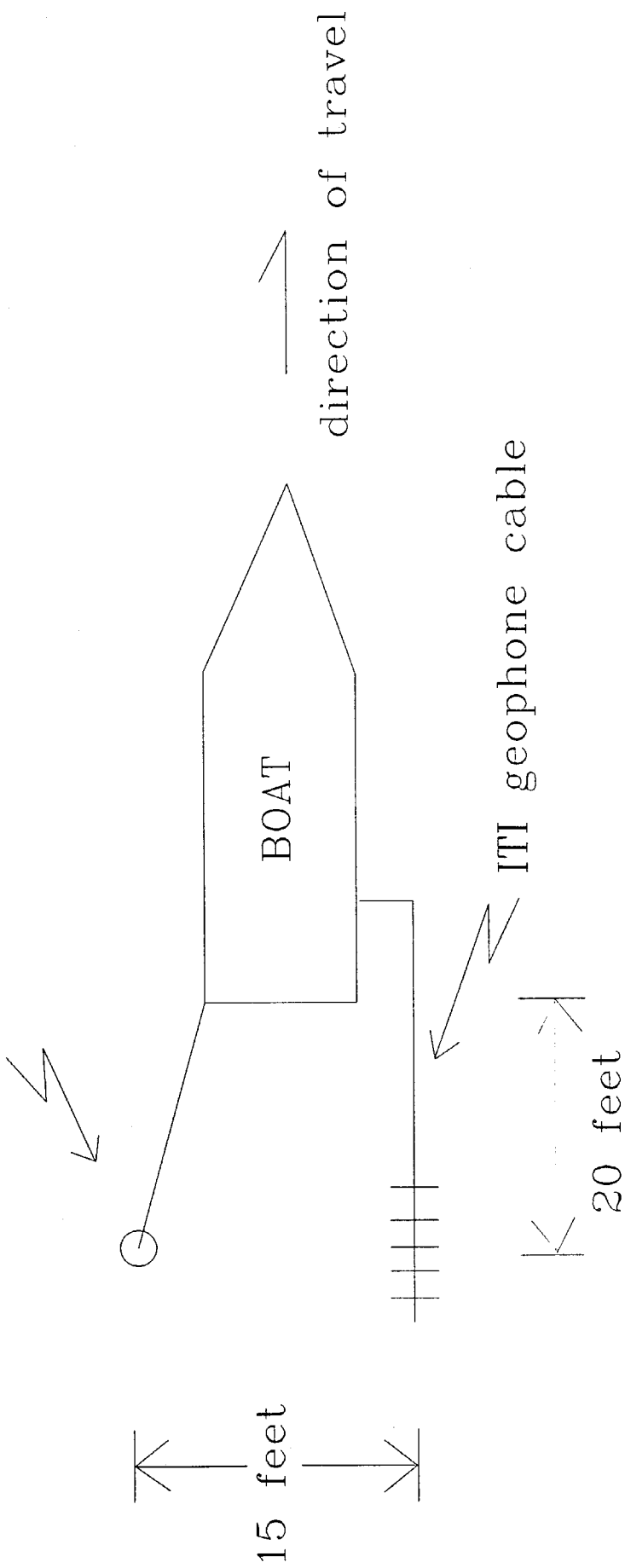


Figure 4. SHOOTING GEOMETRY

Figure 5. Excerpt From Expanded Section Subsurface Acoustic Profile Display Showing Stratigraphic Onlap.

This stratigraphic sequence is commonly associated with sand deposition. The onlap sequence is visible on several adjoining lines. Profile has been expanded to show 50 ms full scale resolution on display. Display is optimized for enhanced stratigraphic resolution. Every tenth depth point displayed.

03 091 J YU228D05 05665724 N HE1125 SP:0.3 1997-08-05 19:32 21 83 91 91 83 32

12075

12175

B3 SW
28° 00'
80° 26.3'

Stratigraphic Onlap
2 ms/div
Every tenth trace displayed

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

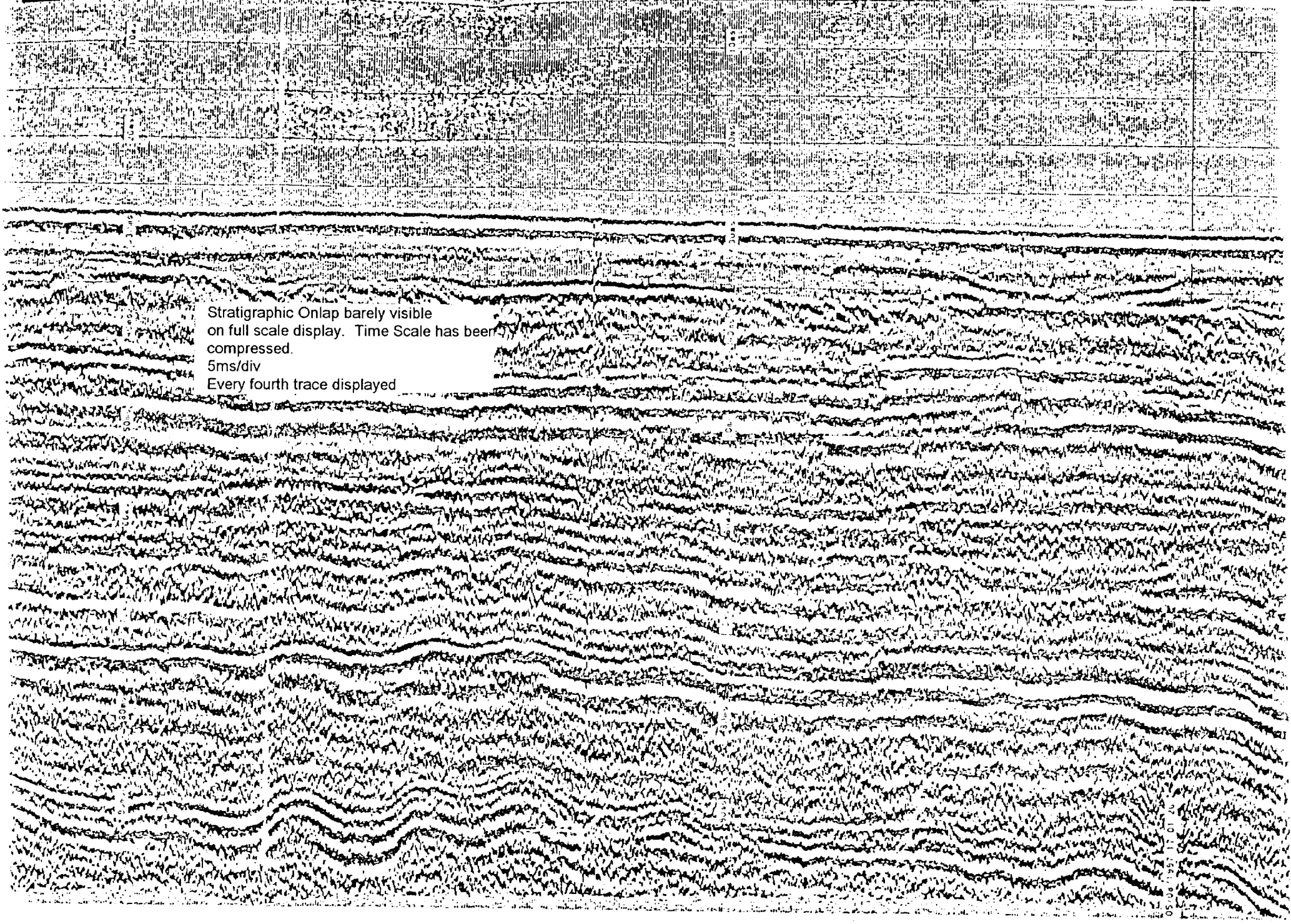
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

21ms

36ms

Figure 6. Excerpt From Full Scale Subsurface Profile Display.

This display is similar to the display in Figure 5 except that the depth scale has been compressed to show 100ms of travel time. Every fourth depth point displayed.



Stratigraphic Onlap barely visible
on full scale display. Time Scale has been
compressed.
5ms/div
Every fourth trace displayed

Figure 7. Excerpt From Full Scale Subsurface acoustic Profile Display Processed With Conventional Processing Parameters. Every trace is displayed. This display shows much less in the way of stratigraphic definition than the displays in Figures 5 and 6.

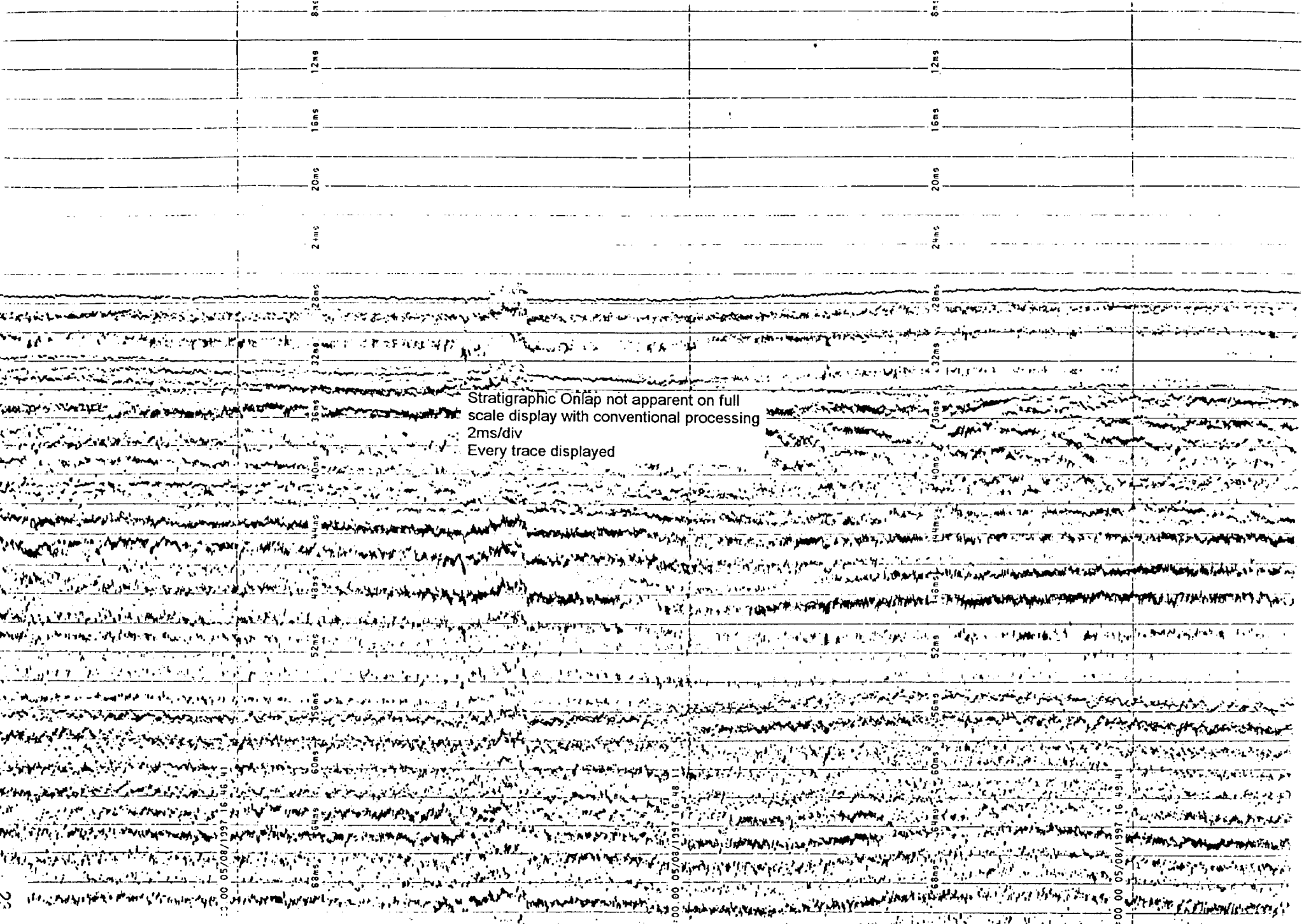
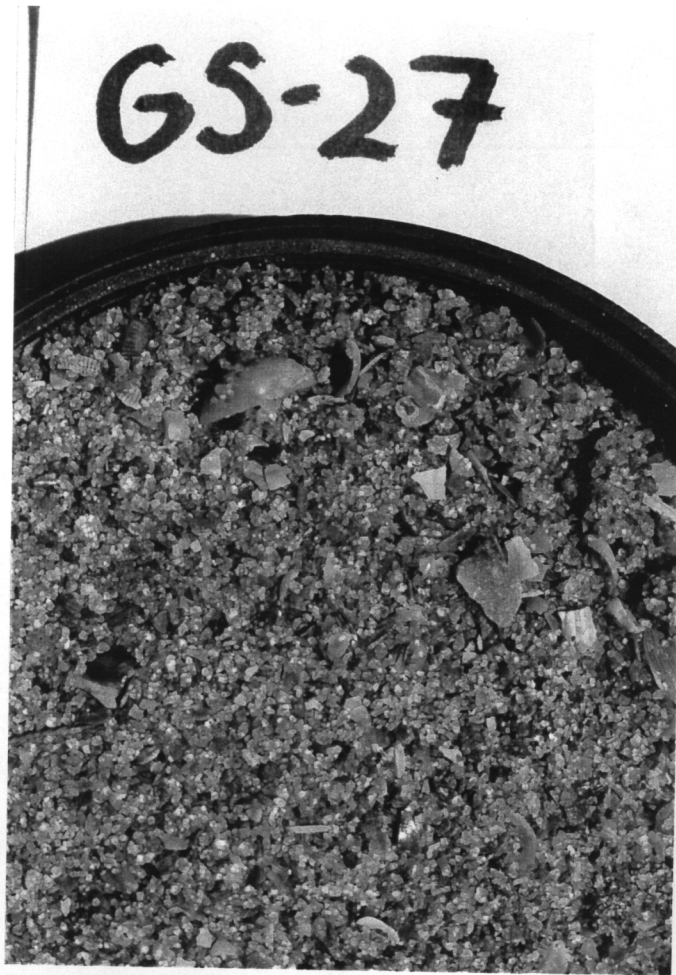
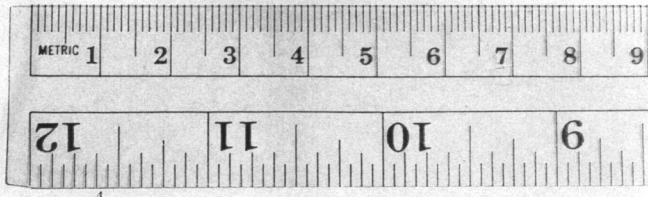


Figure 8. Grab Sample Photos



GS-27 Collected from Canaveral Shoals. Sample shows an abundance of sand sized material. Abundant shell debris. Canaveral Shoals has abundant sand supply and is currently being considered as an-off shore sand source.

GS-26



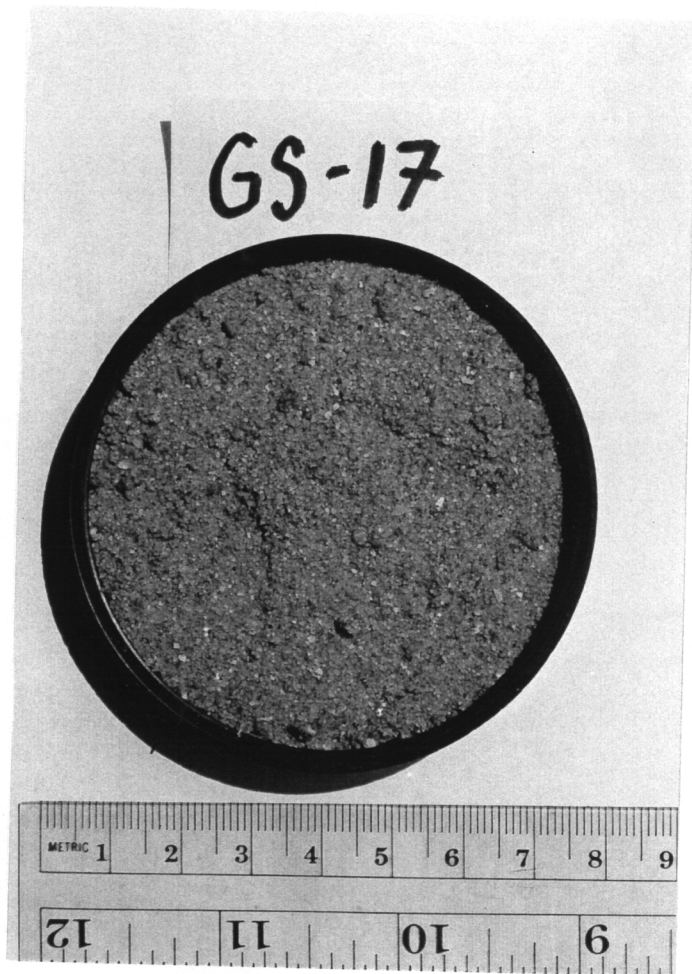
GS-26

Sample contains 38.9% fine material. This sample is unsuitable for beach restoration. The fines would immediately be subject to wave dispersal causing excessive water turbidity and premature beach failure.



GS-3

Sample collected 4.5 miles east-northeast of the mouth of Sebastian Inlet. Grain size distribution is appropriate for beach restoration. This area is previously unrecognized as a sand source.



GS-17, GS-20

The sediments in these samples show favorable characteristics for use as beach restoration material. These samples were collected approximately five and eight miles east of the Patrick AFB shoreline. This sand source was previously unrecognized. It may be contiguous with Space Coast (formerly Patrick) Shoal. Space Coast Shoal contains high quality sands but is currently believed to be of limited areal extent.

GS-20

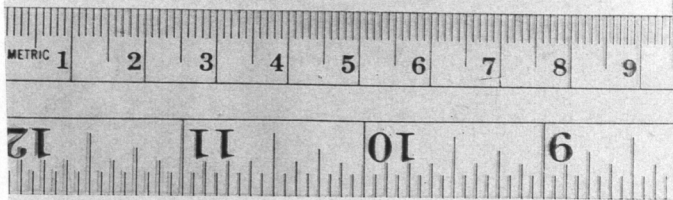
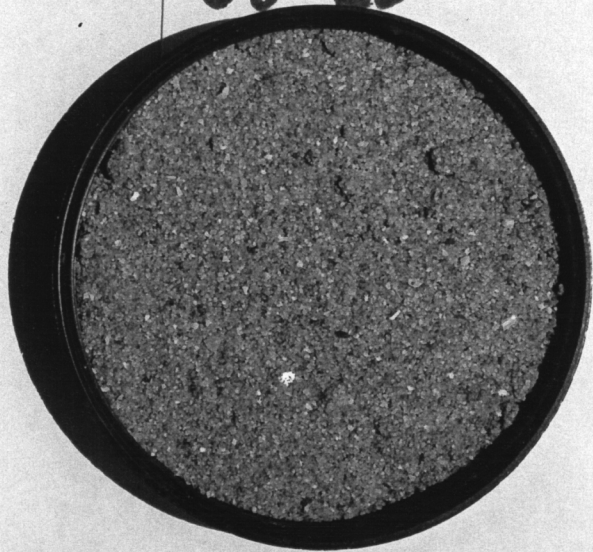


TABLE 1

Subsurface Acoustic Profile Acquisition and Processing Sequence

Acquisition

250 ms shooting interval
100 ms record length
1600 hz adc sampling rate

Processing

Band Pass

160-4000 hz

AGC

Slow Attack 220 unit rise time
Fast Decay 70 unit decay time
5ms AGC Window Width
Exponential Gain

Spiking Deconvolution

1.1 ms signature search window

Swell Filter

4 ms seabed window
22.5 ms seabed arrival time (approximate)

Not Utilized

Predictive Deconvolution
TVF - function handled by exponential AGC
Trace Blending

Table 2
Subsurface Acoustic Profile Anomaly Characterization and
Grab Sample Suitability for Beach Restoration

Sample Number	Location		% Fine	% Coarse	Subsurface Acoustic Amplitude Anomaly		Suitability for Restoration
					First Arrival (2ms)	Near Surface (10 ms)	
GS 1	27 52.91	80 19.43	0.41	68.17	X	X	
GS 1-A	27 52.87	80 19.53	2.50	16.52	?	?	
GS 2	27 52.92	80 20.33	0.06	70.53	X	X	
GS 3	27 52.90	80 22.34	3.39	1.30	X	X	Yes
GS 4	27 55.32	80 23.21	0.01	22.60		X	
GS 5 _{sub}	27 56.13	80 19.37	0.06	89.22	X	X	
GS 16	28 12.97	80 25.33	1.09	0.00	X	X	Yes
GS 17	28 12.96	80 28.89	0.71	0.00	X	X	Yes
GS 18	28 13.88	80 28.77	1.27	0.38	X	X	Yes
GS 19	28 14.74	80 29.81	38.82	0.05			
GS 20	28 15.16	80 27.07	0.64	0.04	* BORDER		Yes
GS 21	28 17.84	80 30.22	18.73	0.04		X	
GS 21-2	28 17.82	80 30.18	22.39	0.00		X	
GS 22	28 18.78	80 27.86	17.60	0.41		X	
GS 23	28 20.50	80 26.73	1.39	0.00	* BORDER	* BORDER	Yes
GS 24	28 20.48	80 29.75	29.90	2.65		* BORDER	
GS 25	28 21.34	80 28.06	9.01	0.00		X	
GS 26	28 22.13	80 27.15	38.90	2.82			
GS 27	28 23.42	80 26.47	2.40	1.74	X	X	Yes

FGS T-1 STATION 1	28 21.61	80 27.20	X	X			
FGS T-1 STATION 2	28 21.74	80 28.42	X	X			
FGS T-1 STATION 3	28 21.60	80 28.42	X	X			
FGS T-1 STATION 4	28 21.61	80 30.71		* BORDER			
FGS T-1 STATION 5	28 21.70	80 31.78					
FGS T-1 STATION 6	28 21.60	80 32.60	?	?			
FGS T-1 STATION 7	28 21.80	80 34.00	?	?			
FGS T-1 STATION 8	28 21.80	80 35.00	?	?			

FGS T-2 STATION 1	28 20.71	80 27.19	X	X			
FGS T-2 STATION 2	28 20.80	80 28.33	X	X			
FGS T-2 STATION 3	28 20.86	80 29.68	* BORDER	* BORDER			
FGS T-2 STATION 4	28 20.82	80 30.83		X			
FGS T-2 STATION 5	28 20.60	80 31.82					
FGS T-2 STATION 6	28 20.80	80 32.60	X				
FGS T-2 STATION 7	28 20.75	80 34.02	?	?			
FGS T-2 STATION 8	28 20.80	80 35.00	?	?			

FGS T-3 STATION 1	28 16.69	80 27.18					
FGS T-3 STATION 2	28 16.70	80 28.40	X	X			
FGS T-3 STATION 3	28 16.70	80 29.50					
FGS T-3 STATION 4	28 16.67	80 30.68	X				
FGS T-3 STATION 5	28 16.65	80 31.69					
FGS T-3 STATION 6	28 16.70	80 32.69	?	?			
FGS T-3 STATION 7	28 16.70	80 33.90	?	?			
FGS T-3 STATION 8	28 16.71	80 35.01	?	?			

* BORDER = grab sample collected at limit of anomaly

Appendix A

Pushcore Lithology and Granulometric Analyses

PROJECT: MMS COOPERATIVE STUDY CENTRAL FLORIDA EAST COAST		BORING ID: B7
INSTALLATION DATE: 07/10/96		DRILLING METHOD: HAND DRIVEN
CORE DIAMETER: 3" PVC SCHEDULE 40	TOTAL DEPTH: 9.5 FEET	GEOLOGISTS: HENRY FREEDENBERG CANDACE TRIMBLE BRAD HIGHLEY
DEPTH (FT)	GEOLOGIC DESCRIPTION	LITH. USCS SYMBOL CLASS
0-9.5	FINE TO VERY COARSE GRAINED SAND, YELLOWISH GRAY TO LIGHT OLIVE BROWN, UNCONSOLIDATED, ANGULAR TO SUBROUNDED, MEDIUM SPHERICITY, SHELL FRAGMENTS.	SW
1		(0-1.8') ACCESSORY MINERALS: 1% HEAVY MINERALS, 25% MEDIUM TO VERY COARSE GRAINED ANGULAR TO SUBANGULAR SHELL DEBRIS.
2		(1.8-2.0') ACCESSORY MINERALS: 2% HEAVY MINERALS, 15% MEDIUM GRAINED TO GRANULAR ANGULAR TO SUBANGULAR SHELL DEBRIS.
3		(2.0-6.0') NOT RECOVERED.
4		
5		
6		(6.0-7.1') ACCESSORY MINERALS: 4% HEAVY MINERALS, 15% COARSE TO GRAVEL, ANGULAR SHELL ANGULAR TO SUBROUNDED SHELL DEBRIS.
7		(7.1-8.5') ACCESSORY MINERALS: 4% HEAVY MINERALS, 2% MUSCOVITE MICA, 25% COARSE GRAINED TO GRANULAR, ANGULAR TO SUBROUNDED SHELL DEBRIS.
8		(8.5-8.8') ACCESSORY MINERALS: 3% HEAVY MINERALS, 15% VERY COARSE GRAINED TO GRANULAR, ANGULAR TO SUBROUNDED SHELL DEBRIS.
9		(8.8-9.5') ACCESSORY MINERALS: 1% HEAVY MINERALS, 20% VERY COARSE GRAINED TO GRANULAR, ANGULAR TO SUBROUNDED SHELL DEBRIS.

PROJECT: MMS COOPERATIVE STUDY CENTRAL FLORIDA EAST COAST		BORING ID: B8
INSTALLATION DATE: 07/10/96		DRILLING METHOD: HAND DRIVEN
CORE DIAMETER: 3" PVC SCHEDULE 40	TOTAL DEPTH: 8.8 FEET	GEOLOGISTS: HENRY FREEDENBERG CANDACE TRIMBLE BRAD HIGHLEY
DEPTH (FT)	GEOLOGIC DESCRIPTION	LITH. USCS SYMBOL CLASS COMMENTS
1 2 3 4 5 6 7 8 9	<p>(0-8.8') VERY FINE TO VERY COARSE GRAINED SAND, PINKISH GRAY TO LIGHT OLIVE GRAY, UNCONSOLIDATED, ANGULAR TO SUBROUNDED, MEDIUM SPHERICITY, SHELL FRAGMENTS.</p> <p>(4.9-7.2) VERY LIGHT ORANGE TO YELLOWISH GRAY, VERY FINE TO VERY COARSE GRAINED SAND, ANGULAR TO SUBROUNDED, AS ABOVE.</p> <p>(7.3-7.5) VERY LIGHT ORANGE TO LIGHT OLIVE GRAY VERY FINE TO MEDIUM GRAINED, ANGULAR TO SUBANGULAR, AS ABOVE.</p>	<p>SW (0-3.4') ACCESSORY MINERALS: <1% HEAVY MINERALS INTERBEDDED, FINE SANDS AND COARSER SHELL, 20% FINE TO VERY COARSE GRAINED ANGULAR TO SUBANGULAR SHELL DEBRIS.</p> <p>(3.4-4.4') ACCESSORY MINERALS: <1% HEAVY MINERALS, 35% VERY FINE SAND TO GRAVEL SIZE, ANGULAR TO SUBROUNDED SHELL DEBRIS. INCLUDES A FEW FRAGMENTS OF COQUINA.</p> <p>(4.4-4.9') ACCESSORY MINERALS: <1% HEAVY MINERALS, 30% VERY FINE SAND TO GRAVEL SIZE ANGULAR TO SUBROUNDED SHELL DEBRIS. INCLUDES A FEW FRAGMENTS OF COQUINA.</p> <p>(4.9-6.8') ACCESSORY MINERALS: <1% HEAVY MINERALS, 1% MUSCOVITE MICA, 35% FINE GRAINED TO GRAVEL SIZE, ANGULAR TO SUBROUNDED SHELL DEBRIS.</p> <p>(6.8-7.2') ACCESSORY MINERALS: <1% HEAVY MINERALS, 2% MICA, 10% VERY FINE TO VERY COARSE GRAINED, SUBANGULAR SHELL DEBRIS.</p> <p>(7.2-7.7') ACCESSORY MINERALS: <1% HEAVY MINERALS, 1% MICA, 20% VERY FINE SAND TO GRAVEL SIZE, SUBANGULAR SHELL DEBRIS.</p> <p>(7.7-8.8') ACCESSORY MINERALS: 1% HEAVY MINERALS, <1% MICA, 10% FINE TO VERY COARSE SUBANGULAR SHELL DEBRIS.</p> <p>CORE VARIATION IS PRIMARILY DUE TO VARIING SHELL CONTENT. NO VISIBLE BEDDING OF HEAVY MINERALS.</p>

PROJECT: MMS COOPERATIVE STUDY CENTRAL FLORIDA EAST COAST		BORING ID: B9	
INSTALLATION DATE: 07/16/96		DRILLING METHOD: HAND DRIVEN	
CORE DIAMETER: 3" PVC SCHEDULE 40	TOTAL DEPTH: 7.5 FEET	GEOLOGISTS: HENRY FREEDENBERG CANDACE TRIMBLE BRAD HIGHLEY	
DEPTH (FT)	GEOLOGIC DESCRIPTION	LITH. USCS SYMBOL CLASS	COMMENTS
1	(0-7.5') VERY FINE TO VERY COARSE GRAINED SAND, YELLOWISH GRAY TO LIGHT OLIVE GRAY, UNCONSOLIDATED, ANGULAR TO SUBROUNDED, MEDIUM SPHERICITY, SHELL FRAGMENTS.	SW	(0-1.6') ACCESSORY MINERALS: 1% MICA, 2% HEAVY MINERALS, 15% VERY FINE TO VERY COARSE GRAINED SUBANGULAR SHELL DEBRIS. (1.6-2.0') ACCESSORY MINERALS: 1% HEAVY MINERALS, 25% VERY FINE GRAINED TO GRANULAR, SUBANGULAR SHELL DEBRIS. (2.0-4.1) ACCESSORY MINERALS: 1% HEAVY MINERALS, 35% MEDIUM TO COARSE GRAINED ANGULAR SHELL DEBRIS, SOME SHELLS WITH ALGAL BORINGS. (4.1-4.3') ACCESSORY MINERALS: 1% HEAVY MINERALS, 40% VERY FINE GRAINED TO GRAVEL SIZE, ANGULAR TO SUBANGULAR SHELL DEBRIS. (4.3-4.6') ACCESSORY MINERALS: 1% HEAVY MINERALS, 20% VERY FINE GRAINED TO GRANULE SIZE, ANGULAR TO SUBANGULAR SHELL DEBRIS. (4.6-5.2') ACCESSORY MINERALS: 1% HEAVY MINERALS, 45% VERY FINE GRAINED TO GRAVEL SIZE ANGULAR TO SUBANGULAR SHELL DEBRIS. (5.2-5.3') ACCESSORY MINERALS: 1% HEAVY MINERALS, 15% VERY FINE GRAINED TO GRANULE SIZE, ANGULAR TO SUBANGULAR SHELL DEBRIS. (5.3-5.8') ACCESSORY MINERALS: 1% HEAVY MINERALS, 20% VERY FINE GRAINED TO GRANULE SIZE, ANGULAR TO SUBANGULAR SHELL DEBRIS. (5.8-6.2') ACCESSORY MINERALS: 1% HEAVY MINERALS, 25% VERY FINE GRAINED TO GRAVEL SIZE, ANGULAR TO SUBANGULAR SHELL DEBRIS. (6.0-7.1') ACCESSORY MINERALS: 2% HEAVY MINERALS, 15% VERY FINE GRAINED TO GRAVEL SIZE, ANGULAR TO SUBANGULAR SHELL DEBRIS. (7.1-7.3') ACCESSORY MINERALS: 1% HEAVY MINERALS, 20% VERY FINE TO VERY COARSE GRAINED, ANGULAR TO SUBANGULAR SHELL DEBRIS. (7.3-7.5') ACCESSORY MINERALS: 2% HEAVY MINERALS, 10% VERY FINE GRAINED TO GRAVEL SIZE ANGULAR TO SUBANGULAR SHELL DEBRIS.
2	(1.6-4.1) VERY FINE TO MEDIUM GRAINED, ANGULAR TO SUBANGULAR, AS ABOVE.		
3			
4			
5			
6			
7	(7.3-7.5) VERY FINE TO MEDIUM GRAINED, ANGULAR TO SUBANGULAR, AS ABOVE.		
8			
9			

PROJECT: MMS COOPERATIVE STUDY CENTRAL FLORIDA EAST COAST		BORING ID: B10	
INSTALLATION DATE: 07/10/96		DRILLING METHOD: HAND DRIVEN	
CORE DIAMETER: 3" PVC SCHEDULE 40	TOTAL DEPTH: 5.6 FEET	GEOLOGISTS: HENRY FREEDENBERG CANDACE TRIMBLE BRAD HIGHLEY	
DEPTH (FT)	GEOLOGIC DESCRIPTION	LITH. USCS SYMBOL CLASS	COMMENTS
1 2 3 4 5 6 7 8 9	(0-5.6') FINE TO COARSE GRAINED SAND, VERY LIGHT ORANGE TO GRAYISH BROWN, UNCONSOLIDATED, SUBANGULAR TO ROUNDED, MEDIUM SPHERICITY, INCLUDES SHELL FRAGMENTS.	SW	(0-1.0') ACCESSORY MINERALS: 2% HEAVY MINERALS, 20% FINE TO MEDIUM GRAINED SUBANGULAR TO ROUNDED SHELL DEBRIS. (1.0-1.1') ACCESSORY MINERALS: 1% HEAVY MINERALS, 35% FINE SAND TO GRANULE SIZE, SUBANGULAR TO SUBROUNDED SHELL DEBRIS. (1.1-2.4') ACCESSORY MINERALS: 1% HEAVY MINERALS, 15% FINE TO COARSE GRAINED, SUBANGULAR TO SUBROUNDED SHELL DEBRIS. (2.4-4.3') ACCESSORY MINERALS: 1% HEAVY MINERALS, 35% FINE SAND TO GRANULE SIZE, SUBANGULAR TO SUBROUNDED SHELL DEBRIS. (4.3-5.3') ACCESSORY MINERALS: 1% HEAVY MINERALS, 20% FINE TO COARSE GRAINED, SUBANGULAR TO SUBROUNDED SHELL DEBRIS. (5.30-5.6') ACCESSORY MINERALS: 1% HEAVY MINERALS, 25% FINE SAND TO GRANULE SIZE, SUBANGULAR TO SUBROUNDED SHELL DEBRIS. CORE VARIABILITY IS PRIMARILY DUE TO VARYING SHELL CONTENT.

PROJECT: MMS COOPERATIVE STUDY CENTRAL FLORIDA EAST COAST		BORING ID: B11	
INSTALLATION DATE: 07/16/96		DRILLING METHOD: HAND DRIVEN	
CORE DIAMETER: 3" PVC SCHEDULE 40	TOTAL DEPTH: 51 FEET	GEOLOGISTS: HENRY FREEDENBERG CANDACE TRIMBLE BRAD HIGHLEY	
DEPTH (FT)	GEOLOGIC DESCRIPTION	LITH. USCS SYMBOL CLASS	COMMENTS
0-5.1'	VERY FINE TO VERY COARSE GRAINED SAND, YELLOWISH GRAY TO GRAYISH ORANGE, UNCONOLIDATED, ANGULAR TO SUBROUNDED, MEDIUM SPHERICITY, INCLUDES SHELL FRAGMENTS	SW	(0-0.7') ACCESSORY MINERALS: <1% HEAVY MINERALS, 30% VERY FINE SAND TO GRANULE SIZE, ANGULAR TO SUBROUNDED SHELL DEBRIS. (0.7-1.0') ACCESSORY MINERALS: <1% HEAVY MINERALS, 50% VERY FINE SAND TO GRAVEL SIZE, ANGULAR TO SUBROUNDED SHELL DEBRIS. (1.0-1.2') ACCESSORY MINERALS: 1% HEAVY MINERALS, 10% VERY FINE TO VERY COARSE GRAINED, ANGULAR TO SUBROUNDED SHELL DEBRIS, INCLUDES A FEW FRAGMENTS OF COQUINA. (1.2-1.5') ACCESSORY MINERALS: <1% HEAVY MINERALS, 50% VERY FINE SAND TO GRAVEL SIZE, ANGULAR TO SUBROUNDED SHELL DEBRIS, INCLUDES ABOUT 1% LIMESTONE FRAGMENTS. (1.5-2.3') ACCESSORY MINERALS: 1% HEAVY MINERALS, 8% VERY FINE SAND TO GRANULE SIZE, ANGULAR TO SUBROUNDED SHELL DEBRIS. (2.3-2.7') ACCESSORY MINERALS: 2% HEAVY MINERALS, 10% VERY FINE TO VERY COARSE GRAINED, ANGULAR TO SUBROUNDED SHELL DEBRIS. (2.7-3.0') ACCESSORY MINERALS: 1% HEAVY MINERALS, 10% VERY FINE TO VERY COARSE GRAINED, TO SUBROUNDED SHELL DEBRIS, <1% LIME- STONE FRAGMENTS. (3.0-3.5') ACCESSORY MINERALS: 2% HEAVY MINERALS, 50% VERY FINE TO GRAVEL SIZE, ANGULAR TO SUBROUNDED SHELL DEBRIS, 10% WELL INDURATED LIMESTONE FRAGMENTS. (3.5-4.2') ACCESSORY MINERALS: <1% HEAVY MINERALS, 08% CLAY TO GRANULE SIZE, ANGULAR TO SUBANGULAR SHELL DEBRIS, ABOUT 10% FRAGMENTS OF INDURATED LIMESTONE (4.3-5.1) ACCESSORY MINERALS: <1% HEAVY MINERALS, 10% CLAY TO GRAVEL SIZE, ANGULAR TO TO SUB-ANGULAR SHELL DEBRIS, WELL CEMENTED AT DEPTHS BELOW 5.0 FEET. CORE VARIABILITY IS PRIMARILY DUE TO VARIING SHELL CONTENT AND THE PRESENCE OF CEMENTED MATERIAL AT DEPTHS EXCEEDING 5 FEET. CLAY SIZED FRACTION IS COMPOSED OF CARBONATE MUD.
1			
2			
3			
4			
5			
6			
7			
8			
9			

PROJECT: MMS COOPERATIVE STUDY CENTRAL FLORIDA EAST COAST		BORING ID: B12	
INSTALLATION DATE: 07/16/96		DRILLING METHOD: HAND DRIVEN	
CORE DIAMETER: 3" PVC SCHEDULE 40	TOTAL DEPTH: 7.9 FEET	GEOLOGISTS: HENRY FREEDENBERG CANDACE TRIMBLE BRAD HIGHLEY	
DEPTH (FT)	GEOLOGIC DESCRIPTION	LITH. USCS SYMBOL CLASS	COMMENTS
1	(0-7.9') VERY FINE TO VERY COARSE GRAINED SAND, PINKISH GRAY TO GRAYISH ORANGE, UNCONSOLIDATED, ANGULAR TO SUBROUNDED, MEDIUM SPHERICITY INCLUDES SHELL FRAGMENTS.	SW	(0-1.2') ACCESSORY MINERALS: <1% HEAVY MINERALS, 25% VERY FINE SAND TO GRAVEL SIZE, SUBANGULAR TO SUBROUNDED SHELL DEBRIS
2			(1.2-2.7') ACCESSORY MINERALS: <1% HEAVY MINERALS, 30% VERY FINE SAND TO GRAVEL SIZE, ANGULAR TO SUBROUNDED SHELL DEBRIS. INCLUDES ABOUT 1% LIMESTONE FRAGMENTS.
3			(2.7-3.1') ACCESSORY MINERALS: 1% HEAVY MINERALS, 45% VERY FINE SAND TO GRAVEL SIZE, ANGULAR TO SUBROUNDED SHELL DEBRIS, INCLUDES ABOUT 1% LIMESTONE FRAGMENTS.
4			(3.1-4.1') ACCESSORY MINERALS: 2% HEAVY MINERALS, 15% VERY FINE TO VERY COARSE GRAINED, ANGULAR TO SUBROUNDED SHELL DEBRIS,
5			(4.1-4.9') ACCESSORY MINERALS: 2% HEAVY MINERALS, 45% CLAY TO GRANULE SIZE, ANGULAR TO SUBROUNDED, SHELL DEBRIS.
6			(4.9-5.7') ACCESSORY MINERALS: 2% HEAVY MINERALS, 50% CLAY TO GRANULE SIZE, ANGULAR TO TO SUBROUNDED, SHELL DEBRIS.
7			(5.7-6.3') ACCESSORY MINERALS: <1% HEAVY MINERALS, 25% CLAY TO GRANULE SIZE, ANGULAR TO SUBANGULAR SHELL DEBRIS, ABOUT 25% FRAGMENTS OF WEAKLY CEMENTED LIMESTONE.
8	(7.4-7.9') VERY LIGHT ORANGE, POORLY INDURATED LIMESTONE, BIOGENIC, SKELETAL, ABOUT 35% ALLOCHEMS, CARBONATE MUD TO GRANULE SIZE ALLOCHEMS, ABOUT 20% FINE TO COARSE TERRIGENOUS SAND, ANGULAR TO SUBROUNDED, MEDIUM SPHERICITY.		(6.3-7.4') ACCESSORY MINERALS: <1% HEAVY MINERALS, 15% CLAY TO COARSE SAND SIZE, ANGULAR TO SUBROUNDED SHELL DEBRIS, ABOUT 10% LIMESTONE, AS ABOVE.
9			(7.4-7.9') ACCESSORY MINERALS: <1% HEAVY MINERALS, 35% CLAY TO GRANULE SIZE, ANGULAR TO SUBROUNDED SHELL DEBRIS, ABOUT 20% QUARTZ SAND, 45% LIMESTONE, AS ABOVE.
			CORE VARIABILITY IS PRIMARILY DUE TO VARIING SHELL CONTENT AND THE PRESENCE OF CEMENTED MATERIAL AT DEPTH.
			CLAY SIZED FRACTION IS COMPOSED OF CARBONATE MUD.

PROJECT: MMS COOPERATIVE STUDY CENTRAL FLORIDA EAST COAST		BORING ID: B13	
INSTALLATION DATE: 07/16/96		DRILLING METHOD: HAND DRIVEN	
CORE DIAMETER: 3" PVC SCHEDULE 40	TOTAL DEPTH: 6.2 FEET	GEOLOGISTS: HENRY FREEDENBERG CANDACE TRIMBLE BRAD HIGHLEY	
DEPTH (FT)	GEOLOGIC DESCRIPTION	LITH. USCS SYMBOL CLASS	COMMENTS
1	(0-6.2') VERY FINE TO VERY COARSE GRAINED SAND, VERY LIGHT ORANGE TO GRAYISH ORANGE, UNCONSOLIDATED, ANGULAR TO SUBROUNDED, MEDIUM SPHERICITY, SHELL FRAGMENTS.	SW	(0-1.5') ACCESSORY MINERALS: 1% HEAVY MINERALS, 15% VERY FINE SAND TO GRANULE SIZE, SUBANGULAR TO ROUNDED SHELL DEBRIS, INTERBEDDED WITH TERRIGENOUS SANDS.
2			(1.5-2.4') ACCESSORY MINERALS: 2% HEAVY MINERALS, 20% VERY FINE SAND TO GRANULE SIZE, SUBANGULAR TO ROUNDED SHELL DEBRIS, INTERBEDDED WITH TERRIGENOUS SANDS.
3			(2.4-3.2') ACCESSORY MINERALS: 4% HEAVY MINERALS, 20% SILT TO GRAVEL SIZE, SUBANGULAR TO ROUNDED SHELL DEBRIS, INTERBEDDED AS ABOVE.
4	(3.2-5.1) YELLOWISH GRAY TO LIGHT OLIVE GRAY, VERY FINE TO COARSE SANDS, ANGULAR TO SUBROUNDED, AS ABOVE.		(3.2-4.2') ACCESSORY MINERALS: 5% HEAVY MINERALS, 15% SILT TO GRAVEL SIZE, SUBANGULAR TO ROUNDED SHELL DEBRIS, INTERBEDDED AS ABOVE.
5			(4.2-5.1') ACCESSORY MINERALS: 2% HEAVY MINERALS, 10% CLAY TO GRANULE SIZE, ANGULAR TO ROUNDED SHELL DEBRIS, AS ABOVE.
6			(5.1-5.6') ACCESSORY MINERALS: 1% HEAVY MINERALS, 30% CLAY TO GRAVEL SIZE, ANGULAR TO ROUNDED SHELL DEBRIS, INTERBEDDED AS ABOVE.
7			(5.6-6.2') ACCESSORY MINERALS: 1% HEAVY MINERALS, 45% CLAY TO GRAVEL SIZE, ANGULAR TO ROUNDED SHELL DEBRIS, 2% GRAVEL TO COBBLE SIZE FRAGMENTS OF INDURATED LIMESTONE.
8			CORE VARIATION IS PRIMARILY DUE TO VARYING SHELL CONTENT AND THE PRESENCE OF FRAGMENTS OF INDURATED MATERIAL.
9			CLAY SIZED FRACTION IS COMPOSED OF CARBONATE MUD.

PROJECT: MMS COOPERATIVE STUDY CENTRAL FLORIDA EAST COAST		BORING ID: B14	
INSTALLATION DATE: 07/17/96		DRILLING METHOD: HAND DRIVEN	
CORE DIAMETER: 3" PVC SCHEDULE 40	TOTAL DEPTH: 8.1 FEET	GEOLOGISTS: HENRY FREEDENBERG CANDACE TRIMBLE BRAD HIGHLEY	
DEPTH (FT)	GEOLOGIC DESCRIPTION	LITH. USCS SYMBOL CLASS	COMMENTS
1	(0-0.4') VERY FINE TO VERY COARSE GRAINED SAND, VERY LIGHT ORANGE TO GRAYISH BROWN, UNCONSOLIDATED ANGULAR TO SUBROUNDED, MEDIUM SPHERICITY, SHELL FRAGMENTS.	SW	(0-0.4') ACCESSORY MINERALS: 1% HEAVY MINERALS, 15% VERY FINE GRAINED TO GRAVEL SIZE, ANGULAR TO SUBROUNDED SHELL DEBRIS, (<1% LIMESTONE FRAGMENTS. (0.4-0.8') ACCESSORY MINERALS: 1% HEAVY MINERALS, 45% VERY FINE SAND TO GRAVEL SIZE, ANGULAR TO SUBROUNDED SHELL DEBRIS, ABOUT 1% LIMESTONE FRAGMENTS.
2			(0.8-1.4') ACCESSORY MINERALS: 1% HEAVY MINERALS, 20% VERY FINE SAND TO GRANULE SIZE, ANGULAR TO SUBROUNDED, SHELL DEBRIS ABOUT 1% LIMESTONE FRAGMENTS.
3	(2.5-5.4') VERY LIGHT ORANGE TO LIGHT YELLOWISH ORANGE, VERY FINE TO COARSE GRAINED SAND, AS ABOVE.		(1.4-1.7') ACCESSORY MINERALS: 1% HEAVY MINERALS, 45% VERY FINE GRAINED TO GRAVEL SIZE, ANGULAR TO SUBROUNDED SHELL DEBRIS ABOUT 2% LIMESTONE FRAGMENTS. (1.7-2.5') ACCESSORY MINERALS: 1% HEAVY MINERALS, 25% VERY FINE GRAINED TO GRANULE SIZE, ANGULAR TO SUBROUNDED SHELL DEBRIS ABOUT 2% LIMESTONE FRAGMENTS.
4			(2.5-3.0') ACCESSORY MINERALS: 4% HEAVY MINERALS, 10% VERY FINE GRAINED TO GRANULE SIZE, SHELL DEBRIS AS ABOVE, INTERBEDDED WITH 2-3 CM THICK BANDS OF TERRIGENOUS SANDS RICH IN HEAVY MINERALS, ABOUT 1% LIMESTONE FRAGMENTS.
5			(3.0-3.6') ACCESSORY MINERALS: 2% HEAVY MINERALS, 30% SILT TO GRANULE SIZE, ANGULAR TO SUBROUNDED SHELL DEBRIS, ABOUT 1% LIMESTONE FRAGMENTS.
6			(3.6-4.2') ACCESSORY MINERALS: 3% HEAVY MINERALS, 40% VERY FINE SAND TO GRAVEL SIZE, ANGULAR TO SUBROUNDED SHELL DEBRIS, ABOUT 3% LIMESTONE FRAGMENTS.
7			(4.2-5.4') ACCESSORY MINERALS: 1% HEAVY MINERALS, 50% VERY FINE SAND TO GRAVEL SIZE, ANGULAR TO SUBROUNDED SHELL DEBRIS, INCLUDES A FEW WHOLE MOLLUSK VALVES, ABOUT 2-3% LIMESTONE FRAGMENTS.
8			(5.4-6.1') ACCESSORY MINERALS: (<1% HEAVY MINERALS, 20% SILT TO GRAVEL SIZE, ANGULAR TO SUBROUNDED SHELL DEBRIS, A FEW WHOLE AS ABOVE, 3% LIMESTONE FRAGMENTS.
9			(6.1-6.6') ACCESSORY MINERALS: 2% HEAVY MINERALS, 15% VERY FINE SAND TO GRANULE SIZE, ANGULAR TO SUBROUNDED SHELL DEBRIS, 2% LIMESTONE FRAGMENTS. (6.6-7.0') ACCESSORY MINERALS: NO HEAVY MINERALS, 60% SILT TO GRAVEL SIZE, ANGULAR TO SUBROUNDED SHELL DEBRIS, 3% LIMESTONE FRAGMENTS. (7.0-8.1') ACCESSORY MINERALS: 3% HEAVY MINERALS, 15% CLAY TO VERY COARSE SAND SIZE, ANGULAR TO ROUNDED SHELL DEBRIS, WEAKLY CEMENTED BY CARBONATE MUD.

PROJECT: MMS COOPERATIVE STUDY CENTRAL FLORIDA EAST COAST		BORING ID: B15	
INSTALLATION DATE: 07/17/96		DRILLING METHOD: HAND DRIVEN	
CORE DIAMETER: 3" PVC SCHEDULE 40	TOTAL DEPTH: 6.6 FEET	GEOLOGISTS: HENRY FREEDENBERG CANDACE TRIMBLE BRAD HIGHLEY	
DEPTH (FT)	GEOLOGIC DESCRIPTION	LITH. USCS SYMBOL CLASS	COMMENTS
1	(0-8.2') FINE TO VERY COARSE GRAINED SAND, VERY LIGHT ORANGE TO YELLOWISH GRAY, UNCONSOLIDATED, 33% INTERGRANULAR POROSITY, HIGH PERMEABILITY, ANGULAR TO SUBROUNDED, MEDIUM SPHERICITY, FOSSIL FRAGMENTS.	SW	(0-10') ACCESSORY MINERALS: 1% HEAVY MINERALS, 10% SILT TO COARSE SAND SIZED, SUB- ANGULAR TO ROUNDED, SHELL DEBRIS WITH 3% LIMESTONE FRAGMENTS.
2			(1.0-1.4') ACCESSORY MINERALS: 1% HEAVY MINERALS, 10% SILT TO COARSE SAND SIZED, ANGULAR SHELL DEBRIS, 1% LIMESTONE FRAGMENTS.
3			(1.4-1.9') ACCESSORY MINERALS: 2% LIMESTONE FRAG- MENTS, 40% SILT TO GRANULE SIZED, ANGULAR SHELL DEBRIS.
4			(1.9-2.1') ACCESSORY MINERALS: 1% HEAVY MINERALS, 3% LIMESTONE FRAGMENTS, 10% SILT TO GRANULE SIZED, ANGULAR TO SUBROUNDED SHELL DEBRIS.
5			(2.1-2.2') ACCESSORY MINERALS: 1% HEAVY MINERALS, ABOUT 4% LIMESTONE FRAGMENTS, AND 10% COARSE TO VERY COARSE GRAINED ANGULAR TO SUBROUNDED SHELL DEBRIS.
6			(2.2-3.8') ACCESSORY MINERALS: <1% HEAVY MINERALS, ABOUT 1% LIMESTONE FRAGMENTS, AND 10% COARSE SAND TO GRANULE SIZED ANGULAR TO SUBANGULAR SHELL DEBRIS.
7			(3.8-4.9') ACCESSORY MINERALS: 1% HEAVY MINERALS, ABOUT 2% LIMESTONE FRAGMENTS AND 8% MEDIUM TO GRANULE SIZED, SUBROUNDED SHELL DEBRIS.
8			(4.9-5.8') ACCESSORY MINERALS: 4% LIMESTONE FRAG- MENTS, 65% COARSE GRAINED TO GRAVEL, ANGULAR TO SUBROUNDED SHELL DEBRIS.
9			(5.8-6.6') ACCESSORY MINERALS: 2% HEAVY MINERALS, ABOUT 1% LIMESTONE FRAGMENTS AND 15% MEDIUM SAND TO GRAVEL SIZED, ANGULAR TO SUBROUNDED SHELL DEBRIS.

PROJECT: MMS COOPERATIVE STUDY CENTRAL FLORIDA EAST COAST		BORING ID: B16	
INSTALLATION DATE: 07/17/96		DRILLING METHOD: HAND DRIVEN	
CORE DIAMETER: 3" PVC SCHEDULE 40	TOTAL DEPTH: 5.9 FEET	GEOLOGISTS: HENRY FREEDENBERG CANDACE TRIMBLE BRAD HIGHLEY	
DEPTH (FT)	GEOLOGIC DESCRIPTION	LITH. USCS SYMBOL CLASS	COMMENTS
1	(0-5.1') FINE TO COARSE GRAINED SAND, VERY LIGHT ORANGE TO GRAYISH BROWN, UNCONSOLIDATED, ANGULAR TO ROUNDED, MEDIUM SPHERICITY, MIXED SHELL AND QUARTZ SAND INTERBEDDED WITH HEAVY MINERALS.	SW	(0-1.2') ACCESSORY MINERALS: 4% HEAVY MINERALS, 15% FINE TO COARSE GRAINED, ANGULAR TO ROUNDED SHELL DEBRIS.
2			(1.2-2.4') ACCESSORY MINERALS: 15% HEAVY MINERALS, 25% FINE SAND TO GRANULE SIZE, ANGULAR TO ROUNDED SHELL DEBRIS, INTERBEDDED WITH THIN LENSES OF HEAVY MINERAL RICH TERRIGENOUS SANDS.
3			(2.4-3.1') ACCESSORY MINERALS: 1% HEAVY MINERALS, 46% FINE SAND TO GRANULE SIZE, ANGULAR TO ROUNDED SHELL DEBRIS
4			(3.1-4.2') ACCESSORY MINERALS: 20% HEAVY MINERALS, 30% FINE SAND TO GRAVEL SIZE, ANGULAR TO ROUNDED SHELL DEBRIS, INTERBEDDED WITH THIN LENSES OF HEAVY-MINERAL RICH TERRIGENOUS SANDS.
5			(4.2-5.9') ACCESSORY MINERALS: <1% HEAVY MINERALS, 15% FINE TO VERY COARSE GRAINED, SUBANGULAR TO ROUNDED SHELL DEBRIS.
6			CORE VARIABILITY IS PRIMARILY DUE TO VARIOUS HEAVY MINERAL AND SHELL DEBRIS CONTENT.
7			
8			
9			

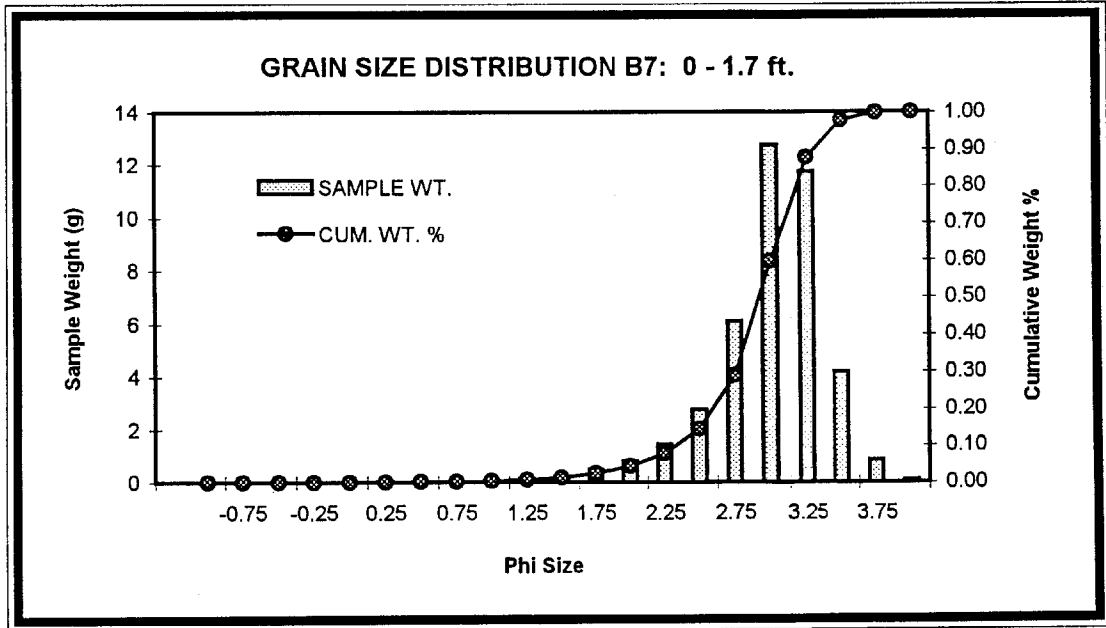
PROJECT: MMS COOPERATIVE STUDY CENTRAL FLORIDA EAST COAST		BORING ID: B17	
INSTALLATION DATE: 07/17/96		DRILLING METHOD: HAND DRIVEN	
CORE DIAMETER: 3" PVC SCHEDULE 40	TOTAL DEPTH: 7.0 FEET	GEOLOGISTS: HENRY FREEDENBERG CANDACE TRIMBLE BRAD HIGHLEY	
DEPTH (FT)	GEOLOGIC DESCRIPTION	LITH. USCS SYMBOL CLASS	COMMENTS
0-1	(0-7.0') FINE TO COARSE GRAINED SAND, VERY LIGHT ORANGE TO MODERATE YELLOWISH BROWN, UNCONSOLIDATED, ANGULAR TO SUBROUNDED, MEDIUM SPHERICITY, INCLUDES SHELL FRAGMENTS.	SW	(0-0.6') ACCESSORY MINERALS: 2% HEAVY MINERALS, 20% CLAY SIZED TO VERY COARSE GRAINED, ANGULAR TO SUBROUNDED SHELL DEBRIS. (0.6-1.2') ACCESSORY MINERALS: <1% HEAVY MINERALS, 25% VERY FINE SAND TO GRAVEL SIZE, ANGULAR TO ROUNDED SHELL DEBRIS. (1.2-1.4') ACCESSORY MINERALS: 4% HEAVY MINERALS, 35% FINE TO VERY COARSE GRAINED, ANGULAR TO ROUNDED SHELL DEBRIS, INCLUDES A FEW WHOLE MOLLUSK VALVES. (1.4-2.4') ACCESSORY MINERALS: 2% HEAVY MINERALS, 15% FINE SAND TO GRANULE SIZE, ANGULAR TO ROUNDED SHELL HASH. (2.4-3.4') ACCESSORY MINERALS: 1% HEAVY MINERALS, 20% VERY FINE TO VERY COARSE GRAINED, ANGULAR TO ROUNDED SHELL DEBRIS, MIXED WITH TERRIGENOUS SILT AND CARBONATE MUD. (3.4-4.2') ACCESSORY MINERALS: 1% HEAVY MINERALS, 30% FINE SAND TO GRANULE SIZE, ANGULAR TO ROUNDED SHELL DEBRIS. (4.2-4.5') ACCESSORY MINERALS: <1% HEAVY MINERALS, 25% VERY FINE TO GRAVEL SIZE, ANGULAR TO ROUNDED SHELL DEBRIS, ABOUT 2% TERRIGENOUS SILT AND CARBONATE MUD. (4.5-5.5') ACCESSORY MINERALS: <1% HEAVY MINERALS, 55% FINE SAND TO GRAVEL SIZE, ANGULAR ROUNDED SHELL DEBRIS, ABOUT 20% WHOLE MOLLUSK VALVES OF VARIOUS SIZES. (5.5-5.7') ACCESSORY MINERALS: <1% HEAVY MINERALS, 40% FINE SAND TO GRAVEL SIZE, ANGULAR TO SUBROUNDED SHELL DEBRIS, AS ABOVE. (5.7-6.4') ACCESSORY MINERALS: <1% HEAVY MINERALS, 50% CLAY TO GRANULE SIZE, ANGULAR TO TO SUBROUNDED SHELL DEBRIS, ABOUT 5% TERRIGENOUS SILT AND CARBONATE MUD. (6.4-7.0') ACCESSORY MINERALS: <1% HEAVY MINERALS, 35% CLAY TO GRANULE SIZE, ANGULAR TO SUBROUNDED, SHELL DEBRIS, ABOUT 5% TERRIGENOUS SILT AND CARBONATE MUD.
1			
2			
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			CORE VARIABILITY IS PRIMARILY DUE TO VARIING SHELL CONTENT. CLAY SIZED FRACTION IS COMPOSED OF CARBONATE MUD.

GRAIN SIZE DISTRIBUTION CHART

CORE B7: 0 - 1.7 ft.

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.0051	0.0051	0.000122310	0.000122310
-0.75	0	0.0051	0	0.000122310
-0.50	0.0084	0.0135	0.000201452	0.000323763
-0.25	0.0034	0.0169	0.000081540	0.000405303
0.00	0.0012	0.0181	0.000028779	0.000434082
0.25	0.0122	0.0303	0.000292586	0.000726667
0.50	0.0143	0.0446	0.000342949	0.001069616
0.75	0.0269	0.0715	0.000645127	0.001714743
1.00	0.0749	0.1464	0.001796284	0.003511027
1.25	0.1498	0.2962	0.003592567	0.007103594
1.50	0.2181	0.5143	0.005230567	0.012334162
1.75	0.4941	1.0084	0.011849717	0.024183878
2.00	0.8127	1.8211	0.019490517	0.043674395
2.25	1.4237	3.2448	0.034143779	0.077818175
2.50	2.7476	5.9924	0.065894113	0.143712288
2.75	6.1016	12.094	0.146331169	0.290043456
3.00	12.7314	24.8254	0.305329854	0.595373310
3.25	11.7497	36.5751	0.281786307	0.877159617
3.50	4.1772	40.7523	0.100179389	0.977339006
3.75	0.8453	41.5976	0.020272344	0.997611350
4.00	0.0996	41.6972	0.002388650	1

TOTAL WT.	41.6972	grams
MEDIAN WT.	20.8486	grams
MEAN GRAIN SIZE	3	phi
		0.125 mm

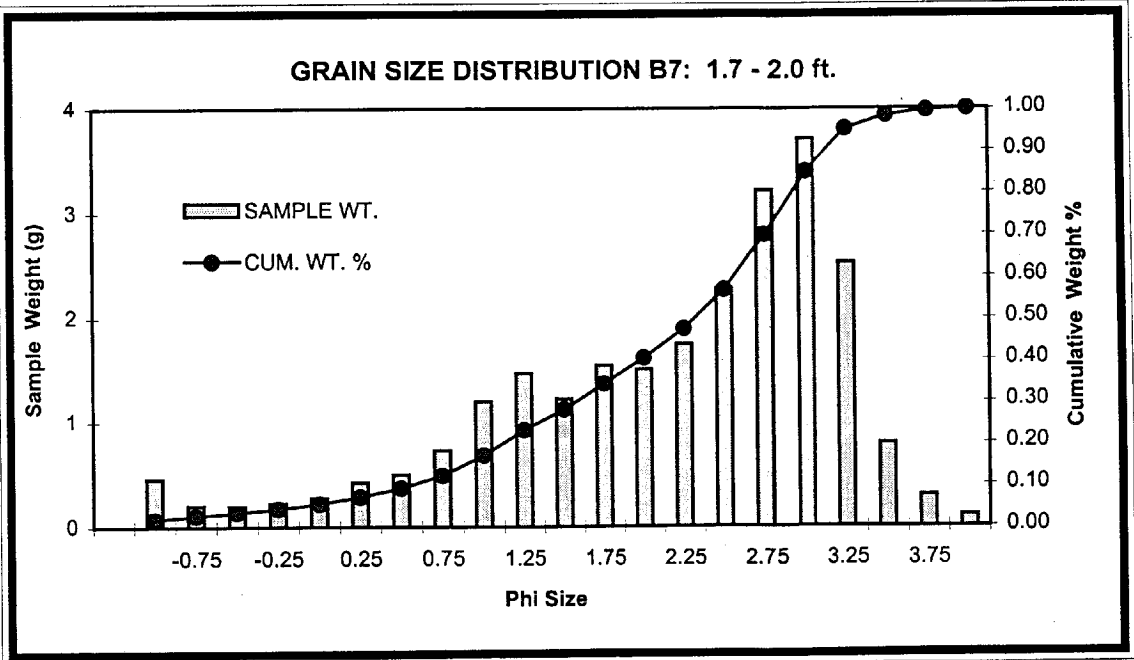


GRAIN SIZE DISTRIBUTION CHART

CORE B7: 1.7 - 2.0 ft.

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
-1.00	0.4540	0.4540	0.018426072	0.018426072
-0.75	0.2047	0.6587	0.008307967	0.026734040
-0.50	0.2005	0.8592	0.008137506	0.034871545
-0.25	0.2233	1.0825	0.009062868	0.043934413
0.00	0.2751	1.3576	0.011165226	0.055099639
0.25	0.4238	1.7814	0.017200373	0.072300012
0.50	0.4984	2.2798	0.020228094	0.092528106
0.75	0.7294	3.0092	0.029603474	0.122131580
1.00	1.1975	4.2067	0.048601810	0.170733390
1.25	1.4727	5.6794	0.059771095	0.230504485
1.50	1.2225	6.9019	0.049616462	0.280120946
1.75	1.5458	8.4477	0.062737936	0.342858882
2.00	1.5076	9.9553	0.061187548	0.404046430
2.25	1.7470	11.7023	0.070903852	0.474950282
2.50	2.2823	13.9846	0.092629571	0.567579853
2.75	3.2133	17.1979	0.130415195	0.697995049
3.00	3.7082	20.9061	0.150501238	0.848496286
3.25	2.5293	23.4354	0.102654329	0.951150615
3.50	0.7967	24.2321	0.032334916	0.983485531
3.75	0.2995	24.5316	0.012155526	0.995641057
4.00	0.1074	24.6390	0.004358943	1

TOTAL WT.	24.6390	grams	
MEDIAN WT.	12.3195	grams	
MEAN GRAIN SIZE	3.00	phi	0.125 mm

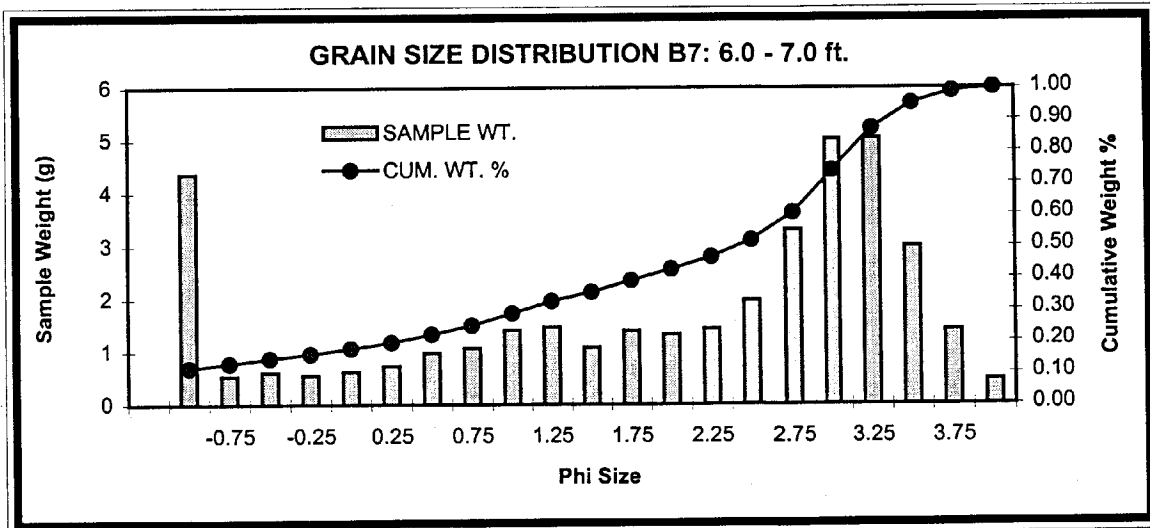


GRAIN SIZE DISTRIBUTION CHART

CORE B7: 6.0 - 7.0 ft.

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	4.3674	4.3674	0.115570868	0.115570868
-0.75	0.5376	4.9050	0.014226061	0.129796929
-0.50	0.6083	5.5133	0.016096936	0.145893866
-0.25	0.5606	6.0739	0.014834691	0.160728556
0.00	0.6248	6.6987	0.016533562	0.177262118
0.25	0.7280	7.4267	0.019264458	0.196526576
0.50	0.9800	8.4067	0.025932924	0.222459500
0.75	1.0680	9.4747	0.028261594	0.250721094
1.00	1.4092	10.8839	0.037290486	0.288011580
1.25	1.4683	12.3522	0.038854400	0.326865980
1.50	1.0821	13.4343	0.028634711	0.355500691
1.75	1.3928	14.8271	0.036856506	0.392357197
2.00	1.3285	16.1556	0.035154989	0.427512186
2.25	1.4358	17.5914	0.037994379	0.465506565
2.50	1.9738	19.5652	0.052231025	0.517737591
2.75	3.3073	22.8725	0.087518325	0.605255916
3.00	5.0166	27.8891	0.132750107	0.738006023
3.25	5.0372	32.9263	0.133295228	0.871301251
3.50	2.9938	35.9201	0.079222436	0.950523686
3.75	1.4052	37.3253	0.037184637	0.987708323
4.00	0.4645	37.7898	0.012291677	1

TOTAL WT.	37.7898	grams	
MEDIAN WT.	18.8949	grams	
MEAN GRAIN SIZE	2.67	phi	0.1571mm

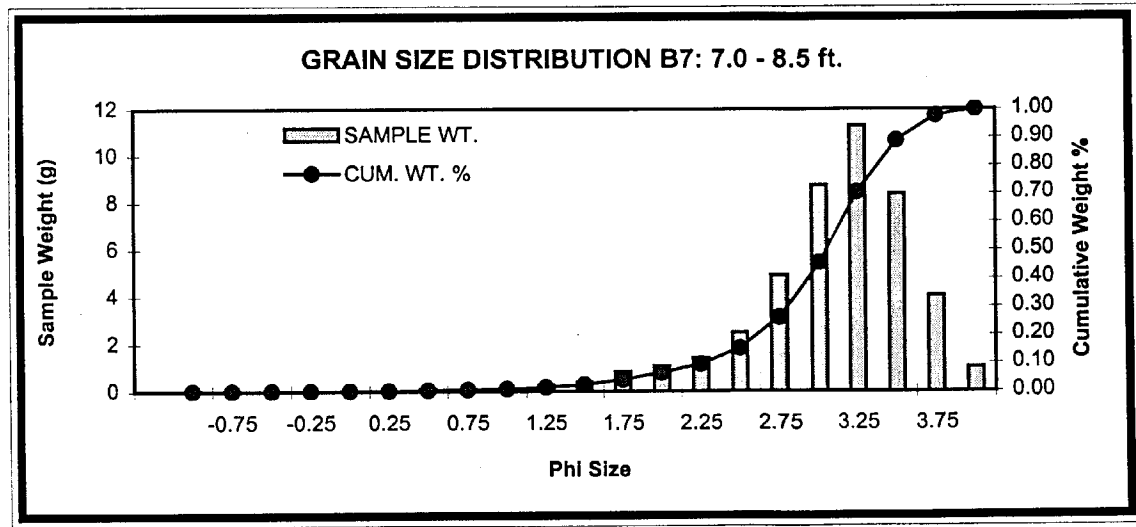


GRAIN SIZE DISTRIBUTION CHART

CORE B7: 7.0 - 8.5

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.0403	0.0403	0.000889823	0.000889823
-0.75	0.0072	0.0475	0.000158976	0.001048799
-0.50	0.0123	0.0598	0.000271584	0.001320383
-0.25	0.0027	0.0625	0.000059616	0.001379999
0.00	0.0168	0.0793	0.000370944	0.001750942
0.25	0.0224	0.1017	0.000494592	0.002245534
0.50	0.1268	0.2285	0.002799741	0.005045275
0.75	0.0608	0.2893	0.001342463	0.006387738
1.00	0.1216	0.4109	0.002684925	0.009072663
1.25	0.2793	0.6902	0.006166938	0.015239601
1.50	0.3759	1.0661	0.008299864	0.023539465
1.75	0.8402	1.9063	0.018551598	0.042091062
2.00	1.0784	2.9847	0.023811048	0.065902111
2.25	1.4193	4.4040	0.031338113	0.097240224
2.50	2.5055	6.9095	0.055321385	0.152561609
2.75	4.9329	11.8424	0.108918324	0.261479933
3.00	8.7387	20.5811	0.192950305	0.454430237
3.25	11.2909	31.8720	0.249302825	0.703733062
3.50	8.3587	40.2307	0.184559913	0.888292975
3.75	4.0488	44.2795	0.089397415	0.977690390
4.00	1.0104	45.2899	0.022309610	1

TOTAL WT.	45.2899	grams	
MEDIAN WT.	22.6450	grams	
MEAN GRAIN SIZE	3.05	phi	0.1207mm

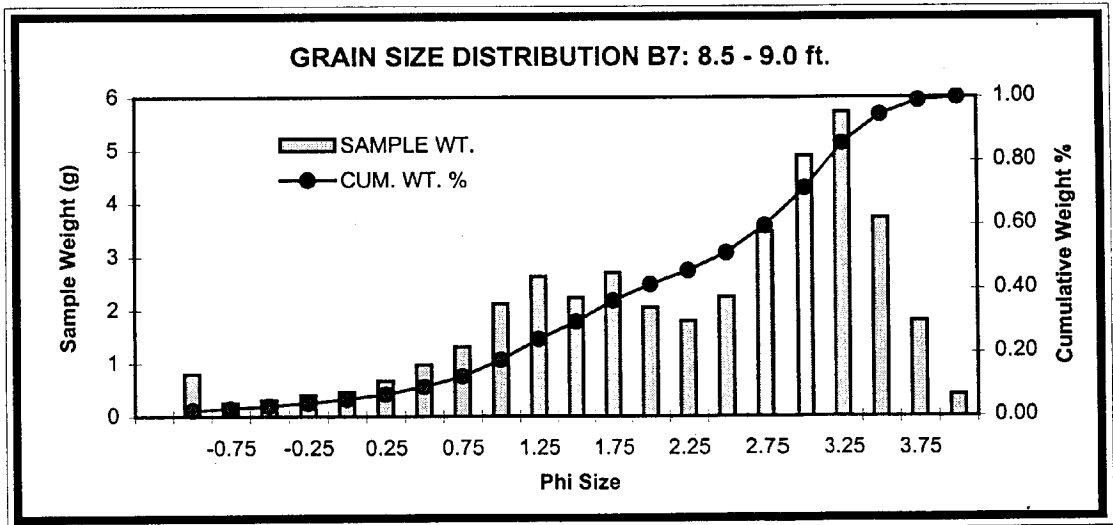


GRAIN SIZE DISTRIBUTION CHART

CORE B7: 8.5 - 9.0 ft.

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.7992	0.7992	0.019505909	0.019505909
-0.75	0.2480	1.0472	0.006052885	0.025558794
-0.50	0.2993	1.3465	0.007304953	0.032863747
-0.25	0.4038	1.7503	0.009855463	0.042719210
0.00	0.4583	2.2086	0.011185633	0.053904843
0.25	0.6650	2.8736	0.016230517	0.070135360
0.50	0.9786	3.8522	0.023884488	0.094019848
0.75	1.3108	5.1630	0.031992424	0.126012272
1.00	2.1290	7.2920	0.051962062	0.177974334
1.25	2.6355	9.9275	0.064324103	0.242298437
1.50	2.2298	12.1573	0.054422267	0.296720703
1.75	2.7010	14.8583	0.065922748	0.362643451
2.00	2.0506	16.9089	0.050048570	0.412692020
2.25	1.7909	18.6998	0.043710125	0.456402146
2.50	2.2487	20.9485	0.054883555	0.511285701
2.75	3.4642	24.4127	0.084550012	0.595835713
3.00	4.8966	29.3093	0.119510302	0.715346015
3.25	5.7173	35.0266	0.139540957	0.854886972
3.50	3.7289	38.7555	0.091010490	0.945897462
3.75	1.8036	40.5591	0.044020092	0.989917554
4.00	0.4131	40.9722	0.010082446	1

TOTAL WT. 40.9722 grams
 MEDIAN WT. 20.4861 grams
 MEAN GRAIN SIZE 2.45 phi 0.1836mm



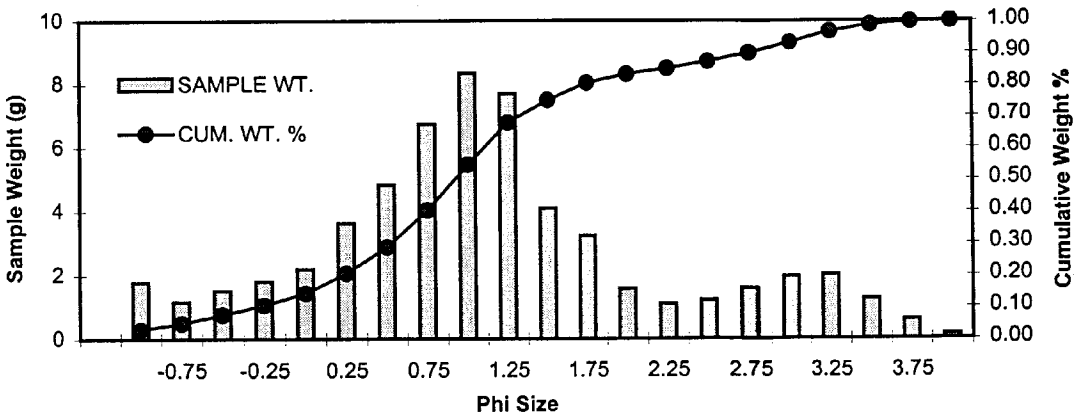
GRAIN SIZE DISTRIBUTION CHART

CORE B7: 9.0 - 9.6 FT.

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	1.7858	1.7858	0.030484183	0.030484183
-0.75	1.1737	2.9595	0.020035438	0.050519621
-0.50	1.5264	4.4859	0.026056141	0.076575762
-0.25	1.8077	6.2936	0.030858023	0.107433784
0.00	2.1956	8.4892	0.037479601	0.144913385
0.25	3.6319	12.1211	0.061997706	0.206911091
0.50	4.8477	16.9688	0.082751804	0.289662895
0.75	6.7363	23.7051	0.114990816	0.404653711
1.00	8.3556	32.0607	0.142632790	0.547286501
1.25	7.6986	39.7593	0.131417588	0.678704089
1.50	4.1031	43.8624	0.070041242	0.748745331
1.75	3.2261	47.0885	0.055070569	0.803815900
2.00	1.5820	48.6705	0.027005251	0.830821151
2.25	1.1066	49.7771	0.018890019	0.849711170
2.50	1.2120	50.9891	0.020689231	0.870400401
2.75	1.5911	52.5802	0.027160591	0.897560992
3.00	1.9626	54.5428	0.033502216	0.931063208
3.25	2.0192	56.562	0.034468396	0.965531604
3.50	1.2613	57.8233	0.021530798	0.987062402
3.75	0.6051	58.4284	0.010329252	0.997391655
4.00	0.1528	58.5812	0.002608345	1

TOTAL WT.	58.5812	grams	
MEDIAN WT.	29.2906	grams	
MEAN GRAIN SIZE	0.92	phi	0.5285 mm

GRAIN SIZE DISTRIBUTION B7: 9.0 - 9.6 ft.

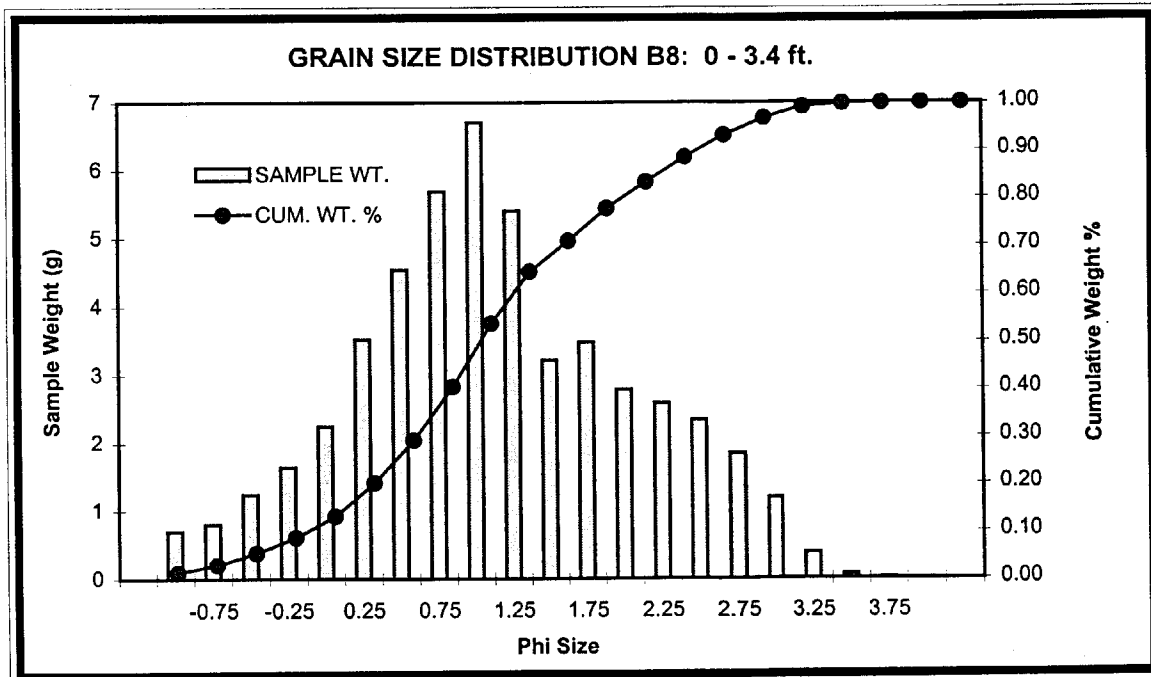


GRAIN SIZE DISTRIBUTION CHART

CORE B8: 0 - 3.4 ft.

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.7037	0.7037	0.013970839	0.013970839
-0.75	0.7971	1.5008	0.015825147	0.029795986
-0.50	1.2347	2.7355	0.024512996	0.054308982
-0.25	1.6334	4.3689	0.032428548	0.086737530
0.00	2.2457	6.6146	0.044584786	0.131322316
0.25	3.5244	10.1390	0.069971332	0.201293648
0.50	4.5374	14.6764	0.090082828	0.291376476
0.75	5.6806	20.3570	0.112779238	0.404155714
1.00	6.6997	27.0567	0.133011841	0.537167555
1.25	5.3957	32.4524	0.107123004	0.644290559
1.50	3.2196	35.6720	0.063920015	0.708210573
1.75	3.4801	39.1521	0.069091826	0.777302399
2.00	2.7872	41.9393	0.055335403	0.832637802
2.25	2.5901	44.5294	0.051422298	0.884060100
2.50	2.3348	46.8642	0.046353724	0.930413824
2.75	1.8477	48.7119	0.036683132	0.967096956
3.00	1.1882	49.9001	0.023589813	0.990686769
3.25	0.3821	50.2822	0.007585985	0.998272754
3.50	0.0601	50.3423	0.001193189	0.999465943
3.75	0.0179	50.3602	0.000355376	0.999821319
4.00	0.0090	50.3692	0.000178681	1

TOTAL WT. 50.3692 grams
 MEDIAN WT. 25.1846 grams
 MEAN GRAIN SIZE 0.93 phi 0.5249 mm

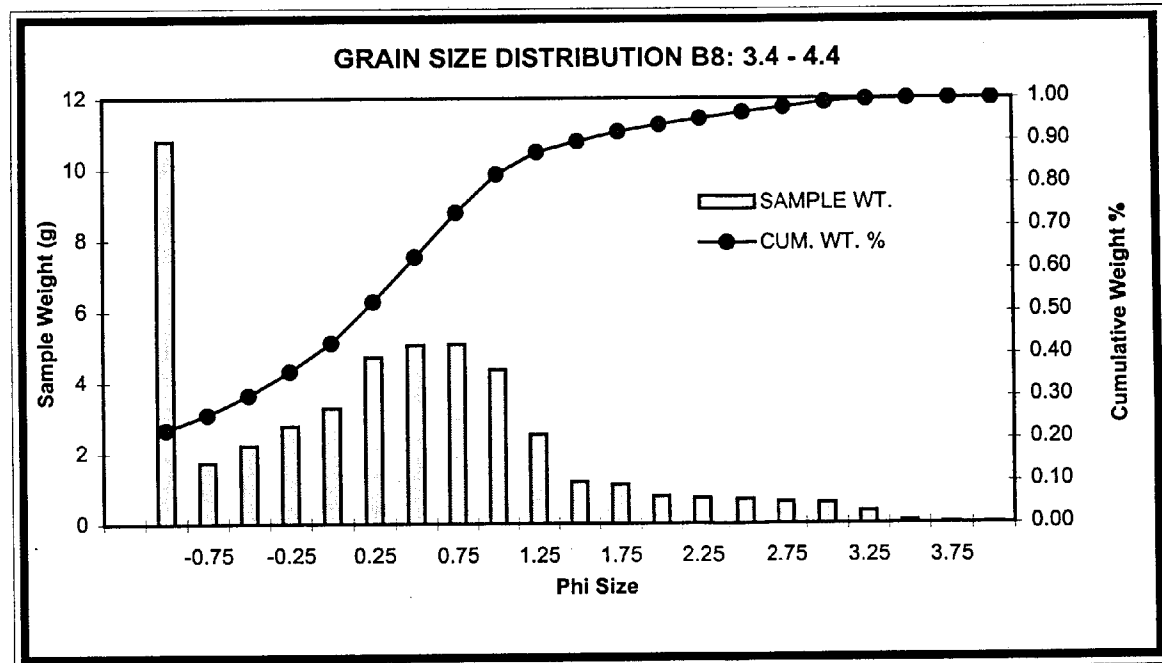


GRAIN SIZE DISTRIBUTION CHART

CORE B8: 3.4 - 4.4 ft.

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	10.7825	10.7825	0.221655079	0.221655079
-0.75	1.7298	12.5123	0.035559375	0.257214454
-0.50	2.2111	14.7234	0.045453424	0.302667878
-0.25	2.7618	17.4852	0.056774125	0.359442003
0.00	3.2744	20.7596	0.067311606	0.426753609
0.25	4.7128	25.4724	0.096880692	0.523634300
0.50	5.0708	30.5432	0.104240072	0.627874372
0.75	5.0860	35.6292	0.104552537	0.732426910
1.00	4.3540	39.9832	0.089504866	0.821931776
1.25	2.5350	42.5182	0.052111813	0.874043589
1.50	1.1827	43.7009	0.024312679	0.898356268
1.75	1.1111	44.8120	0.022840803	0.921197071
2.00	0.7803	45.5923	0.016040571	0.937237642
2.25	0.7089	46.3012	0.014572806	0.951810449
2.50	0.6841	46.9853	0.014062995	0.965873443
2.75	0.6135	47.5988	0.012611676	0.978485119
3.00	0.5747	48.1735	0.011814067	0.990299186
3.25	0.3427	48.5162	0.007044859	0.997344045
3.50	0.0823	48.5985	0.001691835	0.999035880
3.75	0.0326	48.6311	0.000670156	0.999706036
4.00	0.0143	48.6454	0.000293964	1

TOTAL WT.	48.6454	grams	
MEDIAN WT.	24.3227	grams	
MEAN GRAIN SIZE	0.19	phi	0.8766 mm

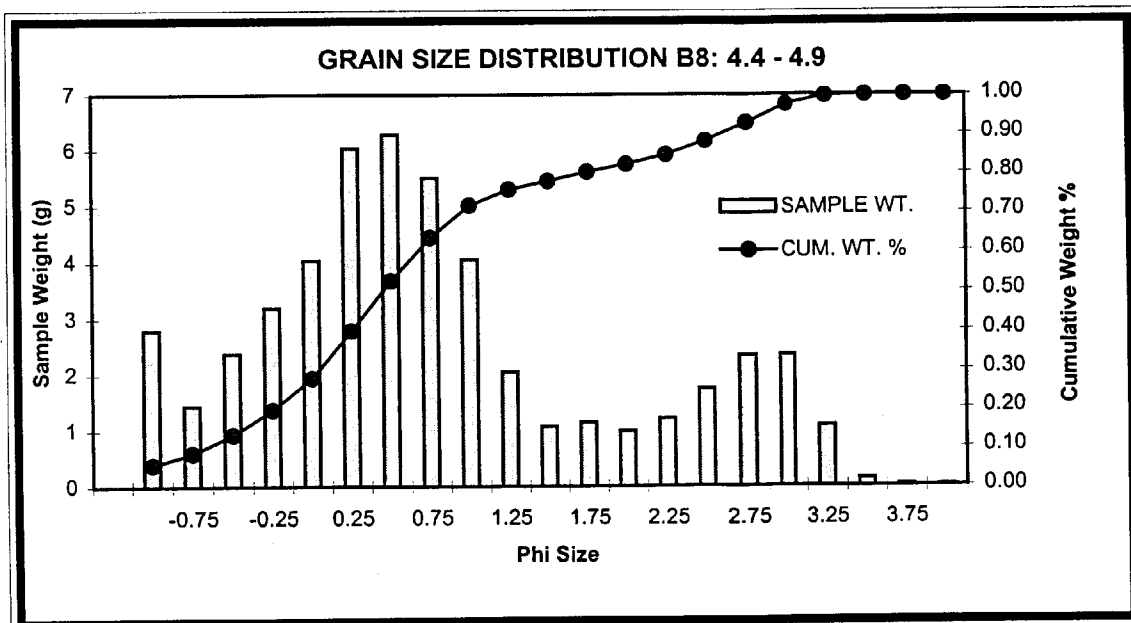


GRAIN SIZE DISTRIBUTION CHART

CORE B8: 4.4 - 4.9 ft.

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	2.8003	2.8003	0.056097102	0.056097102
-0.75	1.4402	4.2405	0.028850854	0.084947955
-0.50	2.3872	6.6277	0.047821662	0.132769618
-0.25	3.2014	9.8291	0.064132151	0.196901768
0.00	4.0351	13.8642	0.080833273	0.277735042
0.25	6.0398	19.9040	0.120992492	0.398727534
0.50	6.2823	26.1863	0.125850381	0.524577915
0.75	5.5028	31.6891	0.110235022	0.634812936
1.00	4.0533	35.7424	0.081197865	0.716010802
1.25	2.0524	37.7948	0.041114770	0.757125572
1.50	1.0644	38.8592	0.021322628	0.778448200
1.75	1.1388	39.9980	0.022813048	0.801261248
2.00	0.9858	40.9838	0.019748071	0.821009319
2.25	1.2166	42.2004	0.024371579	0.845380899
2.50	1.7493	43.9497	0.035042910	0.880423808
2.75	2.3470	46.2967	0.047016355	0.927440163
3.00	2.3558	48.6525	0.047192641	0.974632804
3.25	1.0848	49.7373	0.021731292	0.996364095
3.50	0.1376	49.8749	0.002756477	0.999120572
3.75	0.0298	49.9047	0.000596969	0.999717541
4.00	0.0141	49.9188	0.000282459	1

TOTAL WT. 49.9188 grams
 MEDIAN WT. 24.9594 grams
 MEAN GRAIN SIZE 0.45 phi 0.7320 mm

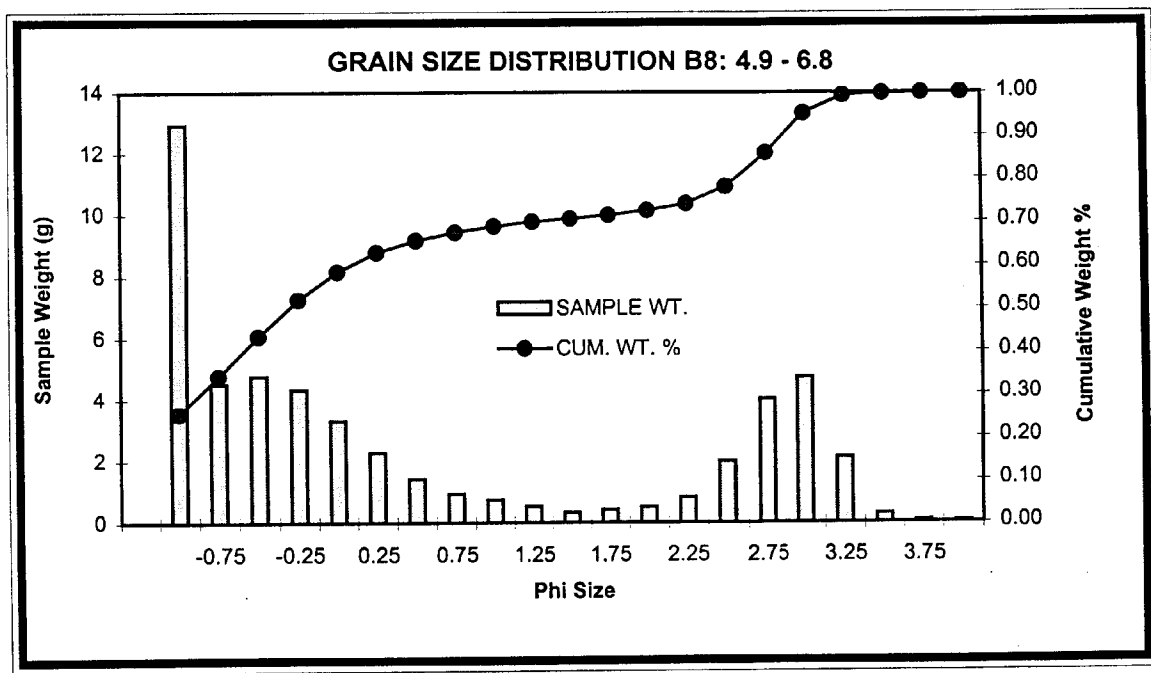


GRAIN SIZE DISTRIBUTION CHART

CORE B8: 4.9 - 6.8 ft.

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	12.9236	12.9236	0.252499380	0.252499380
-0.75	4.5138	17.4374	0.088189955	0.340689334
-0.50	4.7777	22.2151	0.093345994	0.434035328
-0.25	4.3443	26.5594	0.084878289	0.518913617
0.00	3.3112	29.8706	0.064693734	0.583607352
0.25	2.2767	32.1473	0.044481827	0.628089179
0.50	1.4186	33.5659	0.027716396	0.655805575
0.75	0.9449	34.5108	0.018461316	0.674266891
1.00	0.7390	35.2498	0.014438472	0.688705363
1.25	0.5365	35.7863	0.010482057	0.699187421
1.50	0.3345	36.1208	0.006535411	0.705722832
1.75	0.4328	36.5536	0.008455982	0.714178814
2.00	0.5103	37.0639	0.009970166	0.724148980
2.25	0.8148	37.8787	0.015919442	0.740068422
2.50	1.9984	39.8771	0.039044443	0.779112864
2.75	4.0268	43.9039	0.078675021	0.857787885
3.00	4.7474	48.6513	0.092753997	0.950541882
3.25	2.1332	50.7845	0.041678145	0.992220027
3.50	0.2786	51.0631	0.005443245	0.997663273
3.75	0.0777	51.1408	0.001518091	0.999181364
4.00	0.0419	51.1827	0.000818636	1

TOTAL WT.	51.1827	grams	
MEDIAN WT.	25.5914	grams	
EAN GRAIN SIZE	-0.31	phi	1.2397 mm

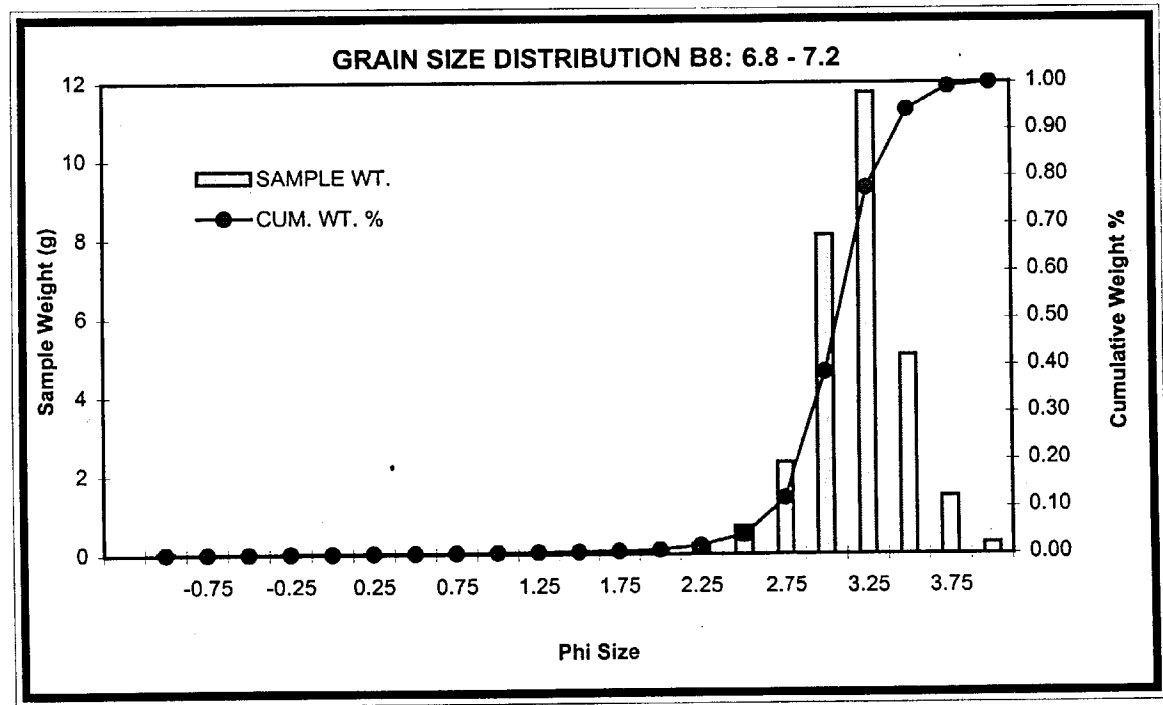


GRAIN SIZE DISTRIBUTION CHART

CORE B8: 6.8 - 7.2 ft.

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.0474	0.0474	0.001567497	0.001567497
-0.75	0	0.0474	0	0.001567497
-0.50	0.0024	0.0498	0.000079367	0.001646864
-0.25	0.0132	0.0630	0.000436518	0.002083382
0.00	0.0086	0.0716	0.000284398	0.002367780
0.25	0.0084	0.0800	0.000277784	0.002645564
0.50	0.0101	0.0901	0.000334002	0.002979566
0.75	0.0115	0.1016	0.000380300	0.003359866
1.00	0.0168	0.1184	0.000555568	0.003915435
1.25	0.0167	0.1351	0.000552261	0.004467696
1.50	0.0192	0.1543	0.000634935	0.005102631
1.75	0.0474	0.2017	0.001567497	0.006670128
2.00	0.0921	0.2938	0.003045705	0.009715833
2.25	0.2518	0.5456	0.008326912	0.018042746
2.50	0.7099	1.2555	0.023476073	0.041518818
2.75	2.3312	3.5867	0.077091732	0.118610550
3.00	8.1029	11.6896	0.267959245	0.386569795
3.25	11.7416	23.4312	0.388289411	0.774859206
3.50	5.0657	28.4969	0.167520412	0.942379619
3.75	1.4721	29.9690	0.048681682	0.991061301
4.00	0.2703	30.2393	0.008938699	1

TOTAL WT.	30.2393	grams	
MEDIAN WT.	15.1197	grams	
MEAN GRAIN SIZE	3.07	phi	0.1191 mm

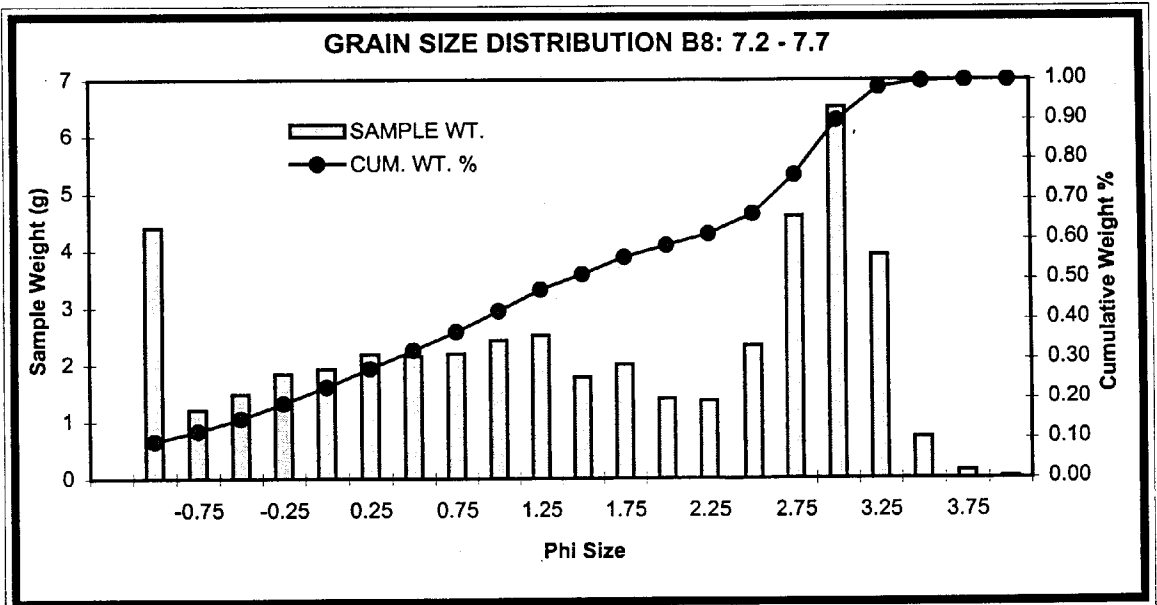


GRAIN SIZE DISTRIBUTION CHART

CORE B8: 7.2 - 7.7 ft.

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	4.4026	4.4026	0.093284120	0.093284120
-0.75	1.2072	5.6098	0.025578656	0.118862775
-0.50	1.4831	7.0929	0.031424540	0.150287315
-0.25	1.8477	8.9406	0.039149836	0.189437151
0.00	1.9353	10.8759	0.041005941	0.230443092
0.25	2.1913	13.0672	0.046430176	0.276873268
0.50	2.1547	15.2219	0.045654680	0.322527948
0.75	2.1985	17.4204	0.046582732	0.369110680
1.00	2.4348	19.8552	0.051589555	0.420700235
1.25	2.5170	22.3722	0.053331243	0.474031478
1.50	1.7819	24.1541	0.037755638	0.511787116
1.75	2.0137	26.1678	0.042667113	0.554454229
2.00	1.4014	27.5692	0.029693446	0.584147675
2.25	1.3625	28.9317	0.028869217	0.613016891
2.50	2.3425	31.2742	0.049633864	0.662650756
2.75	4.5959	35.8701	0.097379840	0.760030596
3.00	6.5234	42.3935	0.138220512	0.898251108
3.25	3.9212	46.3147	0.083084016	0.981335124
3.50	0.7211	47.0358	0.015278967	0.996614091
3.75	0.1307	47.1665	0.002769326	0.999383417
4.00	0.0291	47.1956	0.000616583	1

TOTAL WT.	47.1956	grams	
MEDIAN WT.	23.5978	grams	
MEAN GRAIN SIZE	1.42	phi	0.3737 mm

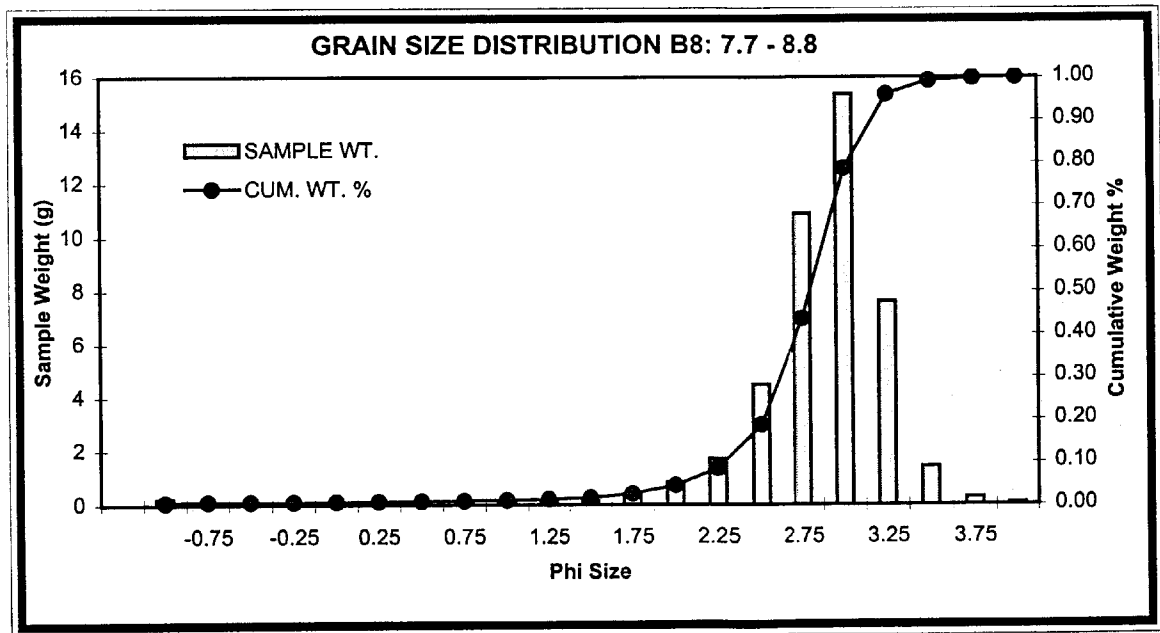


GRAIN SIZE DISTRIBUTION CHART

CORE B8: 7.7 - 8.8 ft.

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.2207	0.2207	0.005034089	0.005034089
-0.75	0.0603	0.281	0.001375422	0.006409511
-0.50	0.0129	0.2939	0.000294244	0.006703755
-0.25	0.0164	0.3103	0.000374078	0.007077833
0.00	0.0195	0.3298	0.000444788	0.007522621
0.25	0.0205	0.3503	0.000467598	0.007990219
0.50	0.0309	0.3812	0.000704818	0.008695037
0.75	0.0383	0.4195	0.000873609	0.009568647
1.00	0.0747	0.4942	0.001703881	0.011272527
1.25	0.1106	0.6048	0.002522747	0.013795274
1.50	0.1471	0.7519	0.003355299	0.017150573
1.75	0.4137	1.1656	0.009436351	0.026586924
2.00	0.8396	2.0052	0.019150979	0.045737903
2.25	1.7083	3.7135	0.038965719	0.084703623
2.50	4.5039	8.2174	0.102732368	0.18743599
2.75	10.861	19.0784	0.247735572	0.435171563
3.00	15.3589	34.4373	0.350331082	0.785502645
3.25	7.6126	42.0499	0.173640716	0.959143361
3.50	1.433	43.4829	0.032686224	0.991829585
3.75	0.2752	43.7581	0.006277215	0.998106799
4.00	0.083	43.8411	0.001893201	1

TOTAL WT.	43.8411	grams	
MEDIAN WT.	21.92055	grams	
MEAN GRAIN SIZE	2.8	phi	0.1436 mm

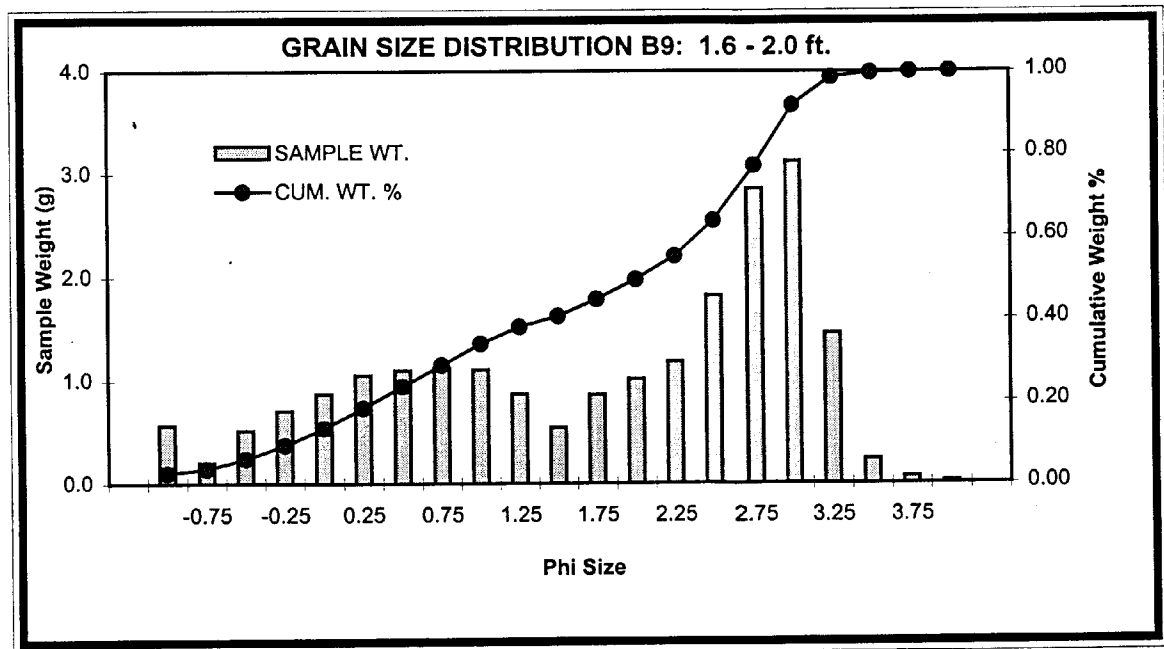


GRAIN SIZE DISTRIBUTION CHART

CORE B9: 1.6 - 2.0 ft.

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.5676	0.5676	0.026644510	0.026644510
-0.75	0.2045	0.7721	0.009599722	0.036244232
-0.50	0.5167	1.2888	0.024255141	0.060499373
-0.25	0.7080	1.9968	0.033235224	0.093734597
0.00	0.8724	2.8692	0.040952555	0.134687152
0.25	1.0535	3.9227	0.049453825	0.184140977
0.50	1.1006	5.0233	0.051664812	0.235805790
0.75	1.1234	6.1467	0.052735099	0.288540889
1.00	1.1049	7.2516	0.051866665	0.340407554
1.25	0.8686	8.1202	0.040774174	0.381181728
1.50	0.5418	8.6620	0.025433396	0.406615124
1.75	0.8626	9.5246	0.040492520	0.447107644
2.00	1.0152	10.5398	0.047655931	0.494763575
2.25	1.1858	11.7256	0.055664305	0.550427880
2.50	1.8227	13.5483	0.085561924	0.635989804
2.75	2.8581	16.4064	0.134166092	0.770155896
3.00	3.1185	19.5249	0.146389894	0.916545790
3.25	1.4594	20.9843	0.068507748	0.985053538
3.50	0.2380	21.2223	0.011172293	0.996225831
3.75	0.0630	21.2853	0.002957372	0.999183202
4.00	0.0174	21.3027	0.000816798	1

TOTAL WT.	21.3027	grams	
MEDIAN WT.	10.6514	grams	
MEAN GRAIN SIZE	2.02	phi	0.2466 mm

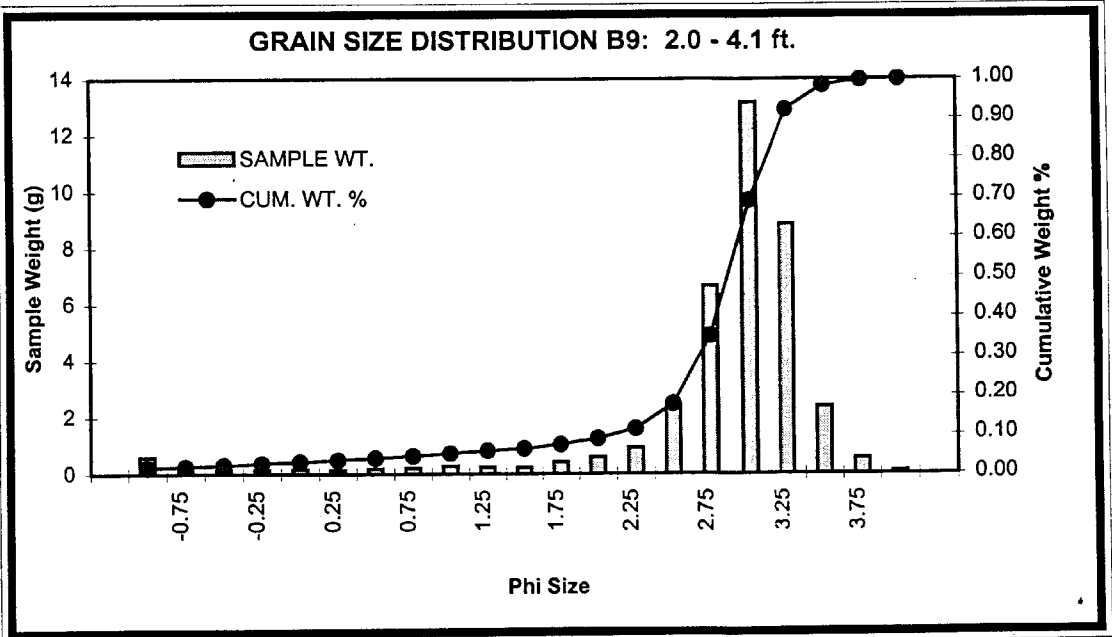


GRAIN SIZE DISTRIBUTION CHART

CORE B9: 2.0 - 4.1 ft.

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.6177	0.6177	0.016020354	0.016020354
-0.75	0.1097	0.7274	0.002845124	0.018865478
-0.50	0.1516	0.8790	0.003931821	0.022797299
-0.25	0.1495	1.0285	0.003877356	0.026674655
0.00	0.1747	1.2032	0.004530931	0.031205585
0.25	0.1525	1.3557	0.003955163	0.035160748
0.50	0.1849	1.5406	0.004795473	0.039956221
0.75	0.1995	1.7401	0.005174131	0.045130352
1.00	0.2800	2.0201	0.007261938	0.052392290
1.25	0.2378	2.2579	0.006167460	0.058559750
1.50	0.2211	2.4790	0.005734338	0.064294088
1.75	0.4165	2.8955	0.010802133	0.075096221
2.00	0.5919	3.4874	0.015351218	0.090447439
2.25	0.9345	4.4219	0.024236718	0.114684158
2.50	2.4366	6.8585	0.063194423	0.177878580
2.75	6.6641	13.5226	0.172836721	0.350715301
3.00	13.1725	26.6951	0.341635285	0.692350586
3.25	8.8404	35.5355	0.229280134	0.921630720
3.50	2.3835	37.9190	0.061817248	0.983447968
3.75	0.5467	38.4657	0.014178934	0.997626902
4.00	0.0915	38.5572	0.002373098	1

TOTAL WT. 38.5572 grams
 MEDIAN WT. 19.2786 grams
 MEAN GRAIN SIZE 2.86 phi 0.1377 mm

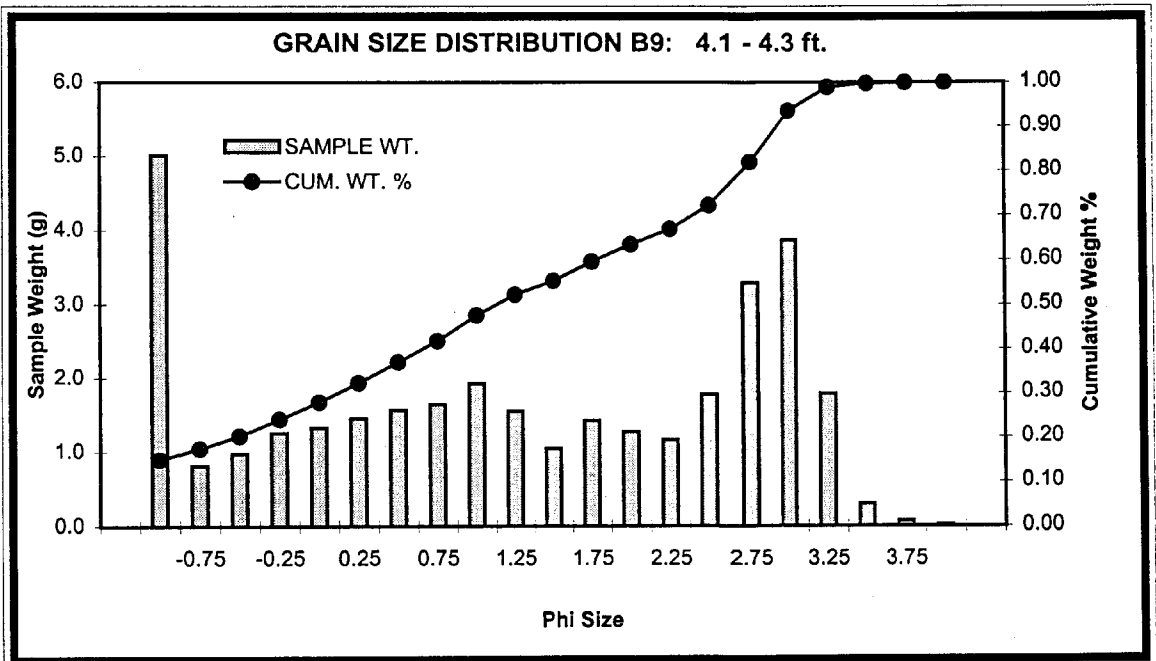


GRAIN SIZE DISTRIBUTION CHART

CORE B9: 4.1 - 4.3 ft.

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	5.0081	5.0081	0.149202018	0.149202018
-0.75	0.8084	5.8165	0.024083966	0.173285984
-0.50	0.9771	6.7936	0.029109900	0.202395884
-0.25	1.2536	8.0472	0.037347427	0.239743311
0.00	1.3275	9.3747	0.039549066	0.279292377
0.25	1.4520	10.8267	0.043258188	0.322550565
0.50	1.5683	12.3950	0.046723014	0.369273578
0.75	1.6443	14.0393	0.048987216	0.418260794
1.00	1.9282	15.9675	0.057445205	0.475705999
1.25	1.5538	17.5213	0.046291028	0.521997027
1.50	1.0477	18.5690	0.031213225	0.553210252
1.75	1.4284	19.9974	0.042555093	0.595765345
2.00	1.2764	21.2738	0.038026688	0.633792033
2.25	1.1689	22.4427	0.034824033	0.668616066
2.50	1.7808	24.2235	0.053053843	0.721669909
2.75	3.2865	27.5100	0.097911869	0.819581778
3.00	3.8662	31.3762	0.115182373	0.934764151
3.25	1.7930	33.1692	0.053417307	0.988181458
3.50	0.2987	33.4679	0.008898912	0.997080370
3.75	0.0743	33.5422	0.002213556	0.999293926
4.00	0.0237	33.5659	0.000706074	1

TOTAL WT. 33.5659 grams
MEDIAN WT. 16.7830 grams
MEAN GRAIN SIZE 1.15 phi 0.4506 mm

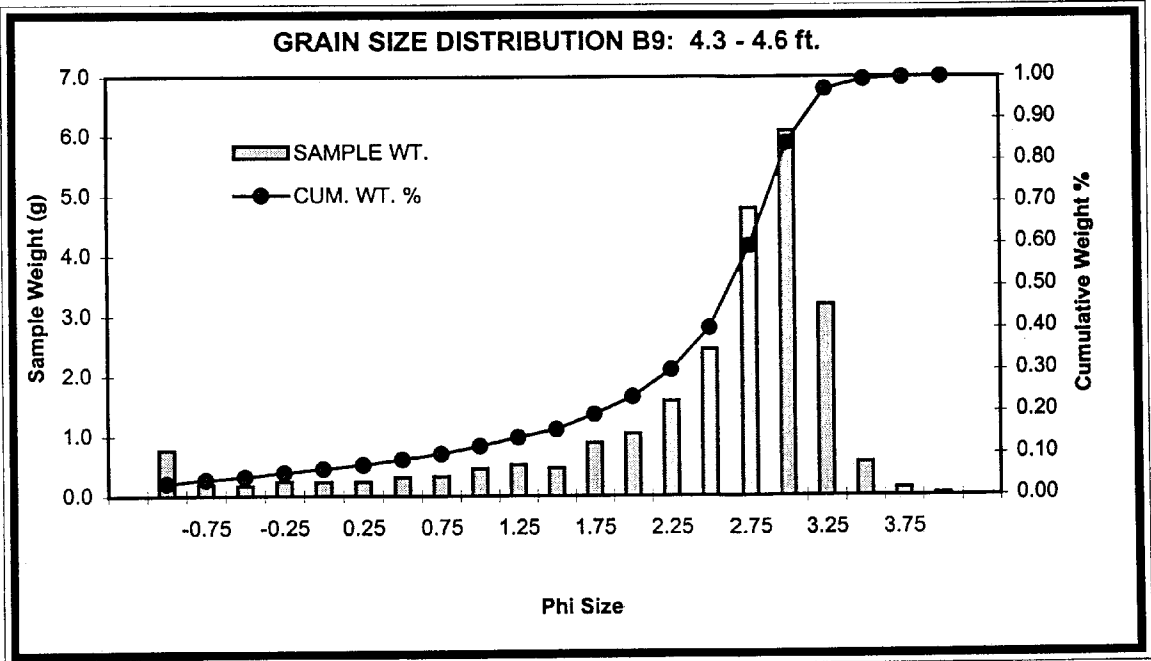


GRAIN SIZE DISTRIBUTION CHART

CORE B9: 4.3 - 4.6 ft.

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.7645	0.7645	0.030982399	0.030982399
-0.75	0.1945	0.9590	0.007882376	0.038864776
-0.50	0.1740	1.1330	0.007051586	0.045916362
-0.25	0.2390	1.3720	0.009685799	0.055602161
0.00	0.2344	1.6064	0.009499378	0.065101539
0.25	0.2354	1.8418	0.009539904	0.074641443
0.50	0.3046	2.1464	0.012344328	0.086985771
0.75	0.3280	2.4744	0.013292645	0.100278416
1.00	0.4560	2.9304	0.018480018	0.118758435
1.25	0.5203	3.4507	0.021085863	0.139844298
1.50	0.4656	3.9163	0.018869072	0.158713369
1.75	0.8912	4.8075	0.036117089	0.194830458
2.00	1.0409	5.8484	0.042183884	0.237014342
2.25	1.5873	7.4357	0.064327485	0.301341828
2.50	2.4529	9.8886	0.099407099	0.400748927
2.75	4.7959	14.6845	0.194360352	0.595109279
3.00	6.0861	20.7706	0.246647457	0.841756736
3.25	3.1908	23.9614	0.129311498	0.971068234
3.50	0.5568	24.5182	0.022565075	0.993633309
3.75	0.1242	24.6424	0.005033373	0.998666683
4.00	0.0329	24.6753	0.001333317	1

TOTAL WT.	24.6753	grams	
MEDIAN WT.	12.3377	grams	
EAN GRAIN SIZE	2.63	phi	0.1615 mm

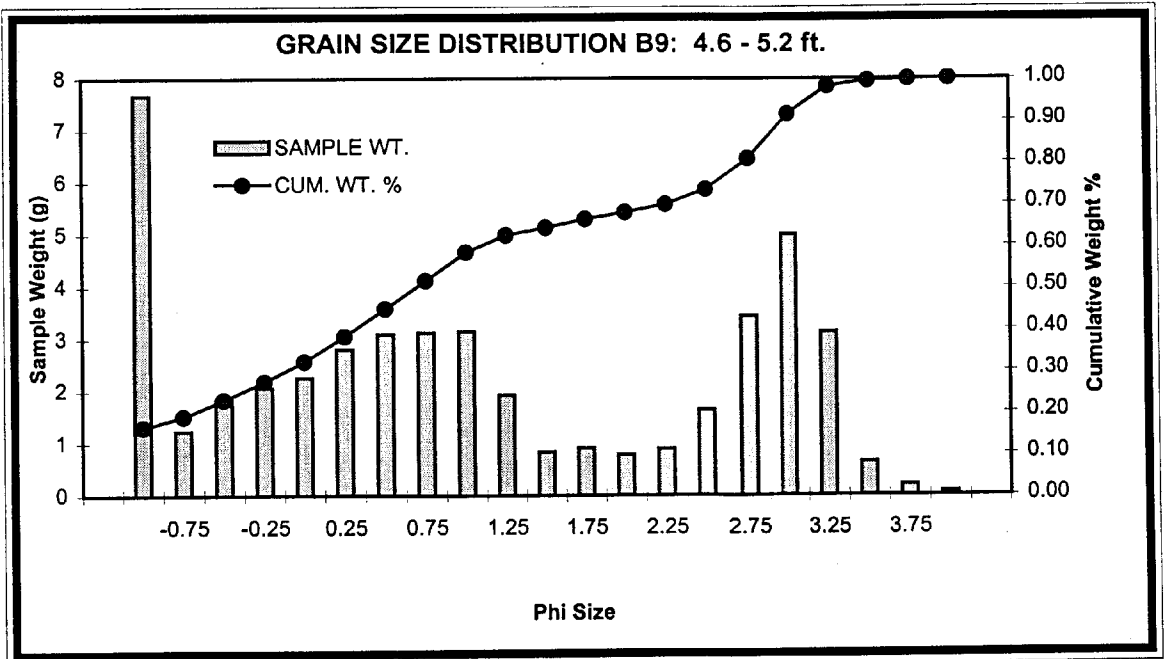


GRAIN SIZE DISTRIBUTION CHART

CORE B9: 4.6 - 5.2 ft.

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	7.6665	7.6665	0.163968261	0.163968261
-0.75	1.2379	8.9044	0.026475746	0.190444007
-0.50	1.8430	10.7474	0.039417401	0.229861408
-0.25	2.0708	12.8182	0.044289503	0.274150911
0.00	2.2647	15.0829	0.048436564	0.322587475
0.25	2.8201	17.9030	0.060315254	0.382902729
0.50	3.0929	20.9959	0.066149799	0.449052528
0.75	3.1310	24.1269	0.066964668	0.516017196
1.00	3.1498	27.2767	0.067366755	0.583383951
1.25	1.9246	29.2013	0.041162632	0.624546582
1.50	0.8294	30.0307	0.017738900	0.642285482
1.75	0.9081	30.9388	0.019422106	0.661707588
2.00	0.7882	31.7270	0.016857729	0.678565318
2.25	0.8940	32.6210	0.019120541	0.697685858
2.50	1.6459	34.2669	0.035201899	0.732887758
2.75	3.4464	37.7133	0.073710326	0.806598084
3.00	4.9978	42.7111	0.106891094	0.913489178
3.25	3.1387	45.8498	0.067129352	0.980618530
3.50	0.6381	46.4879	0.013647446	0.994265977
3.75	0.1965	46.6844	0.004202669	0.998468646
4.00	0.0716	46.7560	0.001531354	1

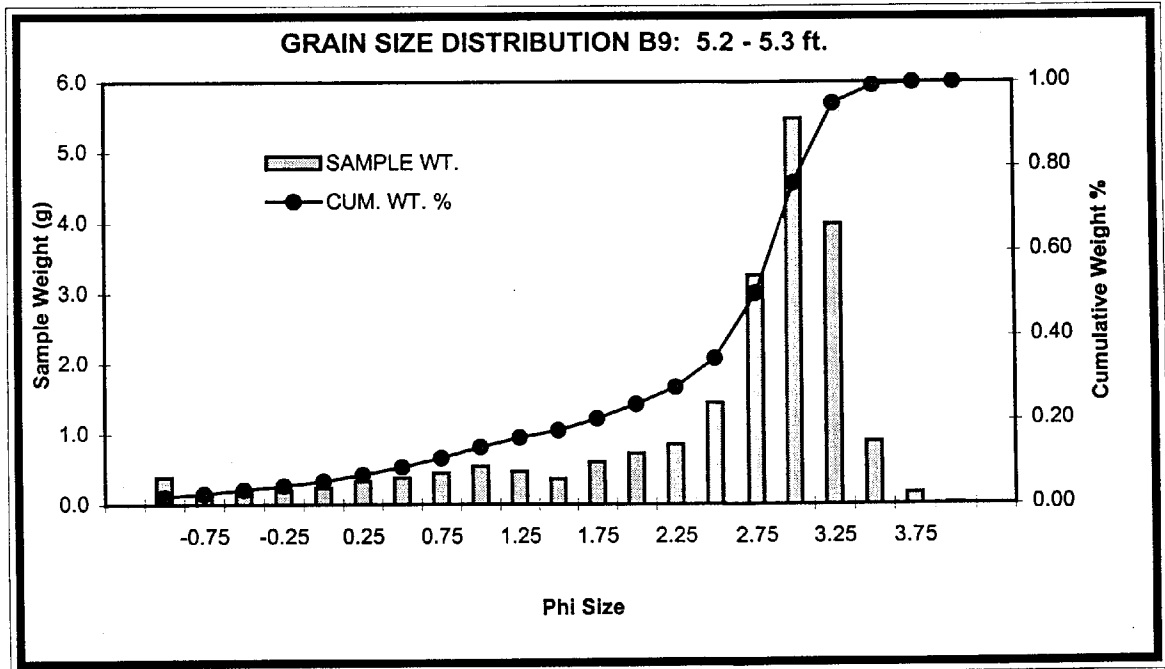
TOTAL WT.	46.7560	grams	
MEDIAN WT.	23.3780	grams	
MEAN GRAIN SIZE	0.69	phi	0.6199 mm



GRAIN SIZE DISTRIBUTION CHART

CORE B9: 5.2 - 5.3 ft.

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.3869	0.3869	0.018378476	0.018378476
-0.75	0.1434	0.5303	0.006811769	0.025190245
-0.50	0.1995	0.7298	0.009476624	0.034666869
-0.25	0.2004	0.9302	0.009519376	0.044186245
0.00	0.2349	1.1651	0.011158191	0.055344436
0.25	0.3298	1.4949	0.015666119	0.071010555
0.50	0.3775	1.8724	0.017931958	0.088942513
0.75	0.4493	2.3217	0.021342593	0.110285106
1.00	0.5364	2.8581	0.025480006	0.135765113
1.25	0.4655	3.3236	0.022112123	0.157877236
1.50	0.3584	3.6820	0.017024672	0.174901909
1.75	0.5937	4.2757	0.028201864	0.203103773
2.00	0.7195	4.9952	0.034177600	0.237281373
2.25	0.8460	5.8412	0.040186587	0.277467960
2.50	1.4427	7.2839	0.068530957	0.345998917
2.75	3.2490	10.5329	0.154333596	0.500332513
3.00	5.4705	16.0034	0.259859014	0.760191528
3.25	3.9808	19.9842	0.189095469	0.949286997
3.50	0.8892	20.8734	0.042238668	0.991525665
3.75	0.1580	21.0314	0.007505296	0.999030962
4.00	0.0204	21.0518	0.000969038	1
TOTAL WT.		21.0518	grams	
MEDIAN WT.		10.5259	grams	
EAN GRAIN SIZE		2.75	phi	0.1487 mm

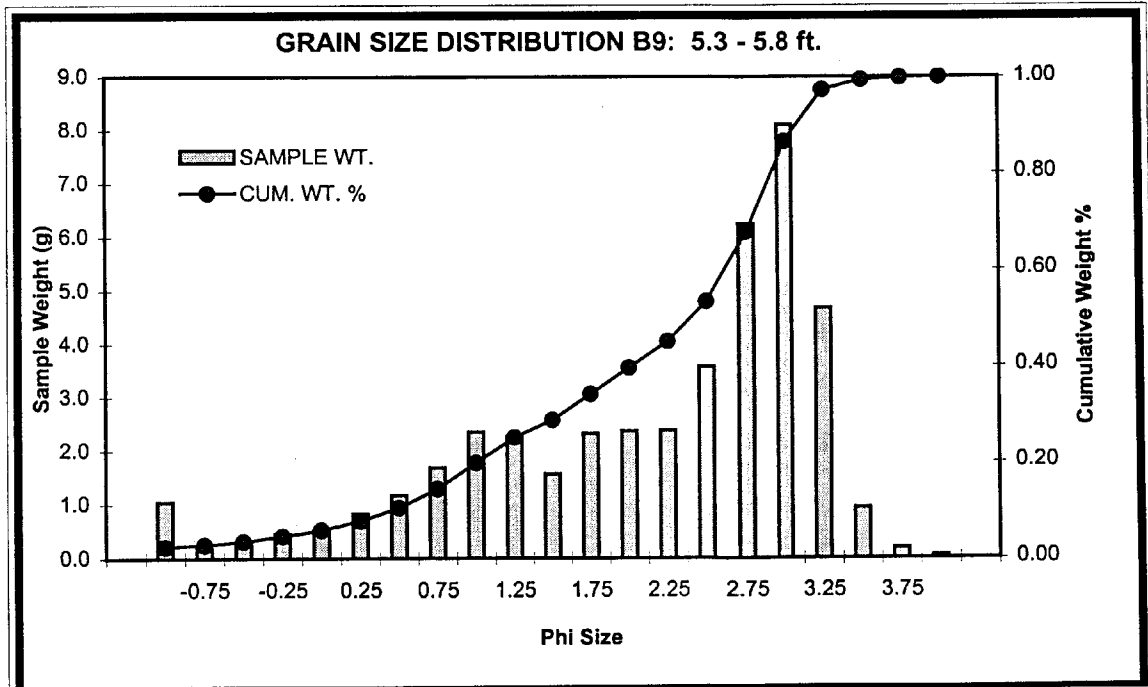


GRAIN SIZE DISTRIBUTION CHART

CORE B9: 5.3 - 5.8 ft.

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	1.0521	1.0521	0.024294779	0.024294779
-0.75	0.1733	1.2254	0.004001792	0.028296571
-0.50	0.3039	1.5293	0.007017568	0.035314140
-0.25	0.4631	1.9924	0.010693767	0.046007907
0.00	0.5406	2.5330	0.012483374	0.058491281
0.25	0.8261	3.3591	0.019076055	0.077567335
0.50	1.1760	4.5351	0.027155841	0.104723177
0.75	1.6937	6.2288	0.039110415	0.143833592
1.00	2.3571	8.5859	0.054429450	0.198263042
1.25	2.2750	10.8609	0.052533622	0.250796664
1.50	1.5637	12.4246	0.036108494	0.286905158
1.75	2.3256	14.7502	0.053702062	0.340607219
2.00	2.3769	17.1271	0.054886666	0.395493885
2.25	2.3879	19.5150	0.055140675	0.450634560
2.50	3.5746	23.0896	0.082543597	0.533178157
2.75	6.2385	29.3281	0.144057581	0.677235739
3.00	8.1028	37.4309	0.187107441	0.864343180
3.25	4.6804	42.1113	0.108078401	0.972421581
3.50	0.9444	43.0557	0.021807803	0.994229384
3.75	0.1945	43.2502	0.004491336	0.998720720
4.00	0.0554	43.3056	0.001279280	1

TOTAL WT.	43.3056	grams	
MEDIAN WT.	21.6528	grams	
MEAN GRAIN SIZE	2.4	phi	0.1895 mm

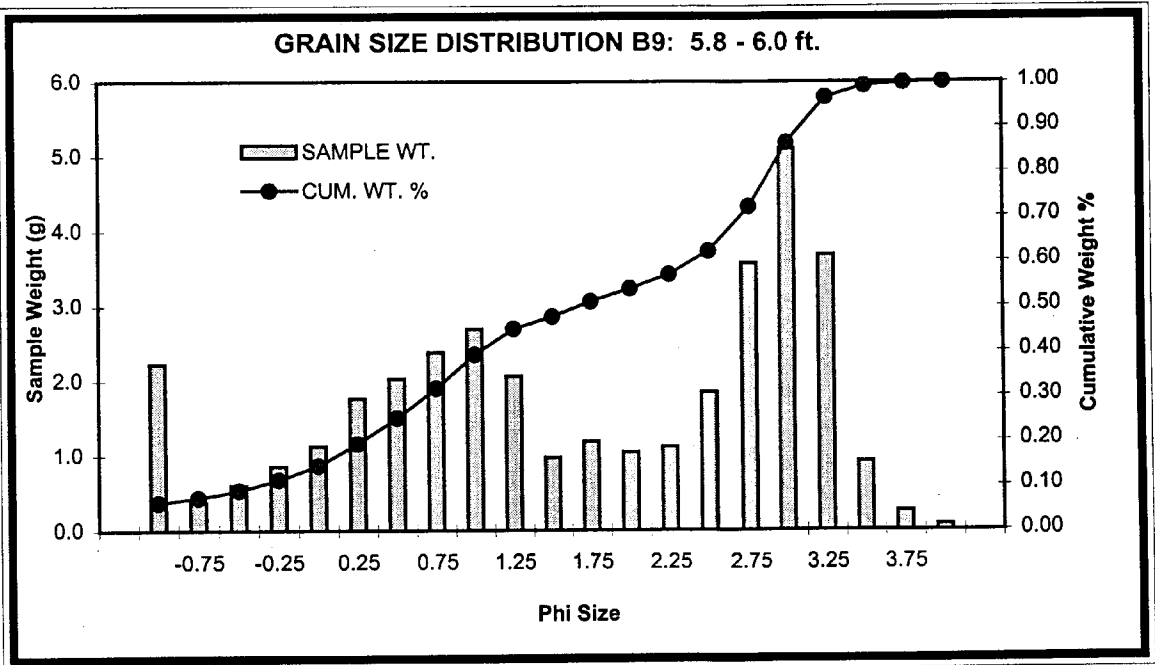


GRAIN SIZE DISTRIBUTION CHART

CORE B9: 5.8 - 6.0 ft.

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	2.2339	2.2339	0.062210377	0.062210377
-0.75	0.3745	2.6084	0.010429198	0.072639576
-0.50	0.6082	3.2166	0.016937352	0.089576928
-0.25	0.8587	4.0753	0.023913358	0.113490287
0.00	1.1283	5.2036	0.031421267	0.144911554
0.25	1.7673	6.9709	0.049216348	0.194127902
0.50	2.0286	8.9995	0.056493116	0.250621018
0.75	2.3812	11.3807	0.066312436	0.316933454
1.00	2.6910	14.0717	0.074939848	0.391873301
1.25	2.0665	16.1382	0.057548567	0.449421869
1.50	0.9756	17.1138	0.027168828	0.476590696
1.75	1.1880	18.3018	0.033083812	0.509674509
2.00	1.0431	19.3449	0.029048590	0.538723099
2.25	1.1223	20.4672	0.031254177	0.569977276
2.50	1.8490	22.3162	0.051491556	0.621468832
2.75	3.5652	25.8814	0.099284855	0.720753687
3.00	5.0949	30.9763	0.141884441	0.862638128
3.25	3.6834	34.6597	0.102576527	0.965214655
3.50	0.9184	35.5781	0.025575903	0.990790558
3.75	0.2585	35.8366	0.007198792	0.997989351
4.00	0.0722	35.9088	0.002010649	1

TOTAL WT.	35.9088	grams	
MEDIAN WT.	17.9544	grams	
MEAN GRAIN SIZE	1.68	phi	0.3121 mm

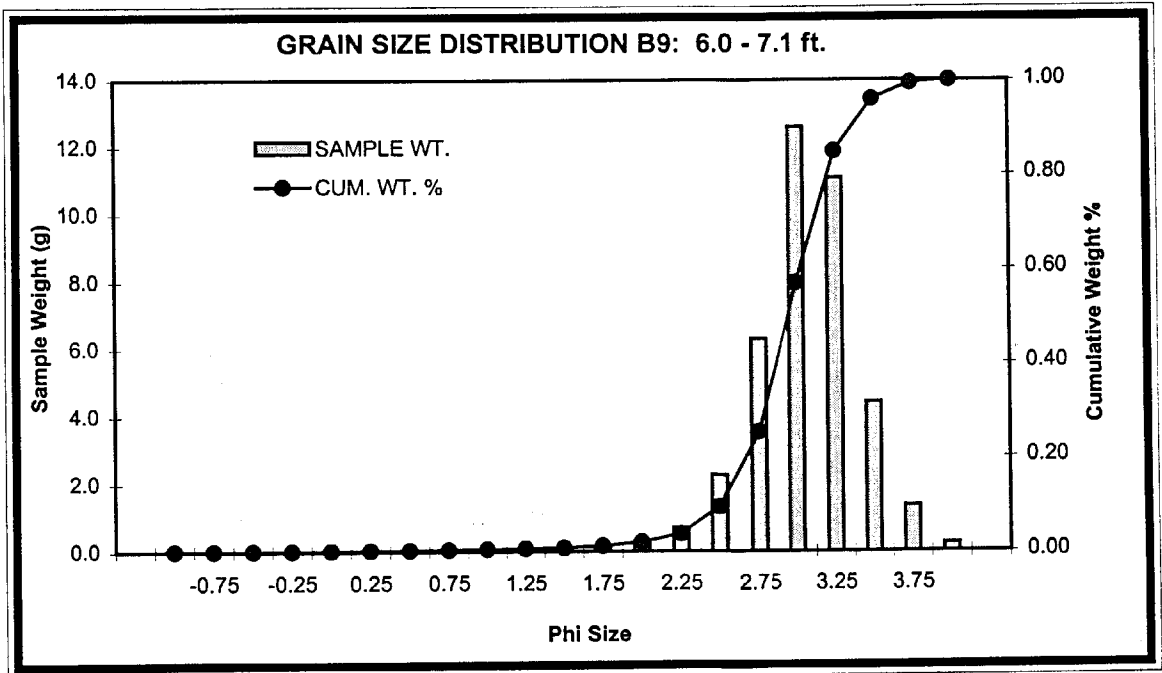


GRAIN SIZE DISTRIBUTION CHART

CORE B9: 6.0 - 7.1 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.0417	0.0417	0.001046760	0.001046760
-0.75	0.0108	0.0525	0.000271103	0.001317864
-0.50	0.0020	0.0545	0.000050204	0.001368068
-0.25	0.0086	0.0631	0.000215879	0.001583947
0.00	0.0126	0.0757	0.000316287	0.001900234
0.25	0.0234	0.0991	0.000587391	0.002487625
0.50	0.0266	0.1257	0.000667718	0.003155342
0.75	0.0366	0.1623	0.000918739	0.004074082
1.00	0.0481	0.2104	0.001207414	0.005281496
1.25	0.0637	0.2741	0.001599008	0.006880504
1.50	0.0632	0.3373	0.001586457	0.008466961
1.75	0.1551	0.4924	0.003893346	0.012360306
2.00	0.3161	0.8085	0.007934795	0.020295101
2.25	0.7193	1.5278	0.018055988	0.038351089
2.50	2.2638	3.7916	0.056826283	0.095177372
2.75	6.3190	10.1106	0.158620586	0.253797958
3.00	12.5979	22.7085	0.316234575	0.570032532
3.25	11.0826	33.7911	0.278197263	0.848229795
3.50	4.4375	38.2286	0.111390861	0.959620656
3.75	1.3670	39.5956	0.034314661	0.993935317
4.00	0.2416	39.8372	0.006064683	1

TOTAL WT.	39.8372	grams	
MEDIAN WT.	19.9186	grams	
MEAN GRAIN SIZE	2.94	phi	0.1303 mm

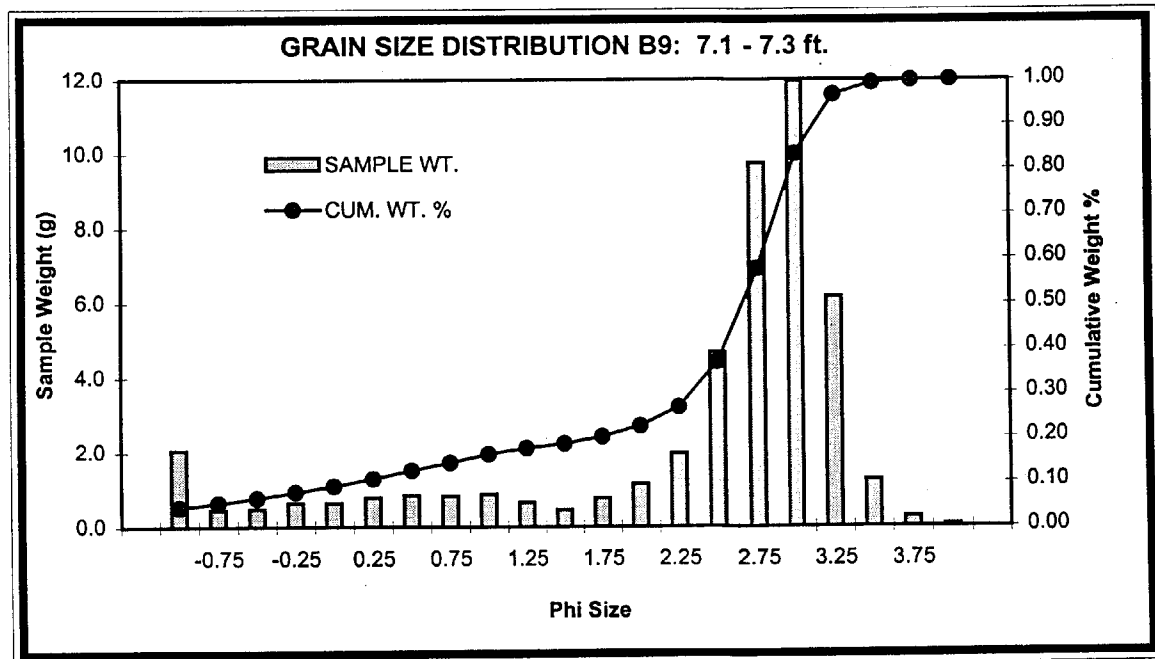


GRAIN SIZE DISTRIBUTION CHART

CORE B9: 7.1 - 7.3 ft.

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	2.0464	2.0464	0.043821067	0.043821067
-0.75	0.4474	2.4938	0.009580505	0.053401572
-0.50	0.4850	2.9788	0.010385661	0.063787233
-0.25	0.6377	3.6165	0.013655539	0.077442772
0.00	0.6452	4.2617	0.013816142	0.091258913
0.25	0.7825	5.0442	0.016756247	0.108015161
0.50	0.8400	5.8842	0.017987537	0.126002698
0.75	0.8228	6.7070	0.017619221	0.143621919
1.00	0.8658	7.5728	0.018540012	0.162161931
1.25	0.6452	8.2180	0.013816142	0.175978072
1.50	0.4490	8.6670	0.009614767	0.185592839
1.75	0.7542	9.4212	0.016150239	0.201743078
2.00	1.1415	10.5627	0.024443778	0.226186856
2.25	1.9685	12.5312	0.042152937	0.268339793
2.50	4.6847	17.2159	0.100316923	0.368656716
2.75	9.7519	26.9678	0.208824600	0.577481317
3.00	11.9684	38.9362	0.256288143	0.833769460
3.25	6.1734	45.1096	0.132195550	0.965965010
3.50	1.2624	46.3720	0.027032699	0.992997709
3.75	0.2662	46.6382	0.005700336	0.998698045
4.00	0.0608	46.6990	0.001301955	1

TOTAL WT.	46.6990	grams	
MEDIAN WT.	23.3495	grams	
MEAN GRAIN SIZE	2.66	phi	0.1582 mm

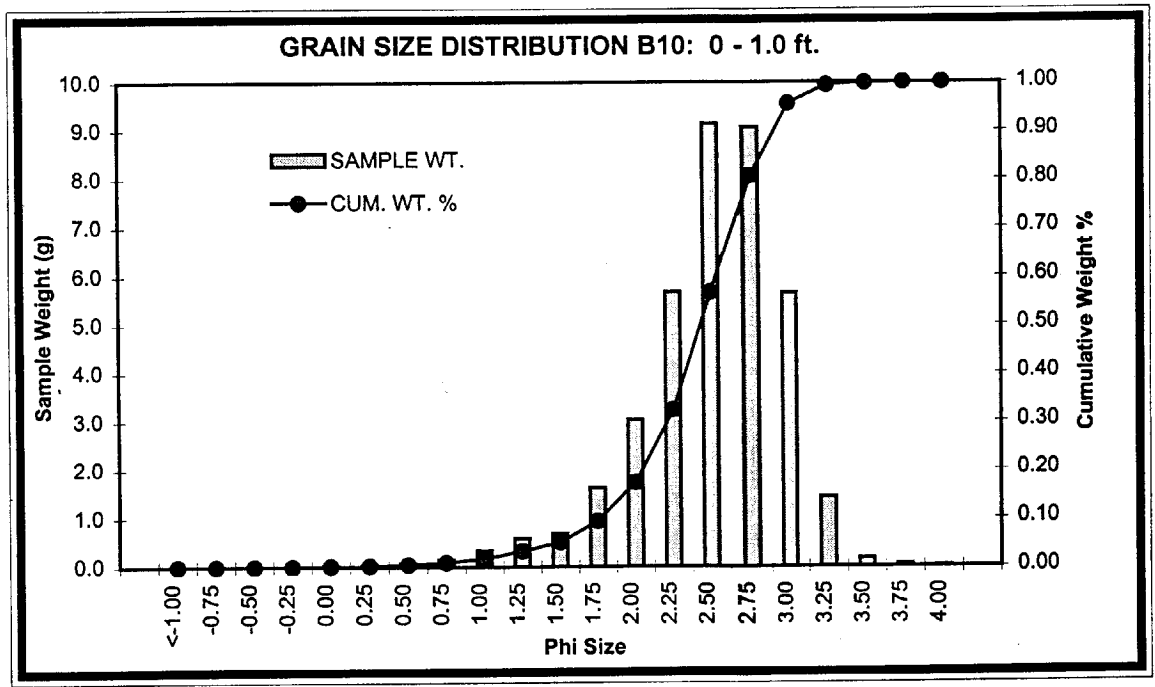


GRAIN SIZE DISTRIBUTION CHART

CORE B10: 0 - 1.0 ft.

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0	0	0	0
-0.75	0	0	0	0
-0.50	0.0040	0.0040	0.000105811	0.000105811
-0.25	0.0010	0.0050	0.000026453	0.000132264
0.00	0.0332	0.0382	0.000878230	0.001010494
0.25	0.0443	0.0825	0.001171855	0.002182349
0.50	0.0824	0.1649	0.002179704	0.004362053
0.75	0.1506	0.3155	0.003983779	0.008345832
1.00	0.3383	0.6538	0.008948954	0.017294786
1.25	0.5806	1.2344	0.015358448	0.032653234
1.50	0.6851	1.9195	0.018122756	0.050775990
1.75	1.6344	3.5539	0.043234321	0.094010311
2.00	3.0415	6.5954	0.080455939	0.174466250
2.25	5.6807	12.2761	0.150269950	0.324736200
2.50	9.1351	21.4112	0.241648216	0.566384416
2.75	9.0690	30.4802	0.239899691	0.806284107
3.00	5.6519	36.1321	0.149508112	0.955792219
3.25	1.4352	37.5673	0.037964940	0.993757159
3.50	0.1746	37.7419	0.004618644	0.998375803
3.75	0.0492	37.7911	0.001301474	0.999677277
4.00	0.0122	37.8033	0.000322723	1

TOTAL WT.	37.8033	grams	
MEDIAN WT.	18.9017	grams	
MEAN GRAIN SIZE	2.4300	phi	0.1856 mm

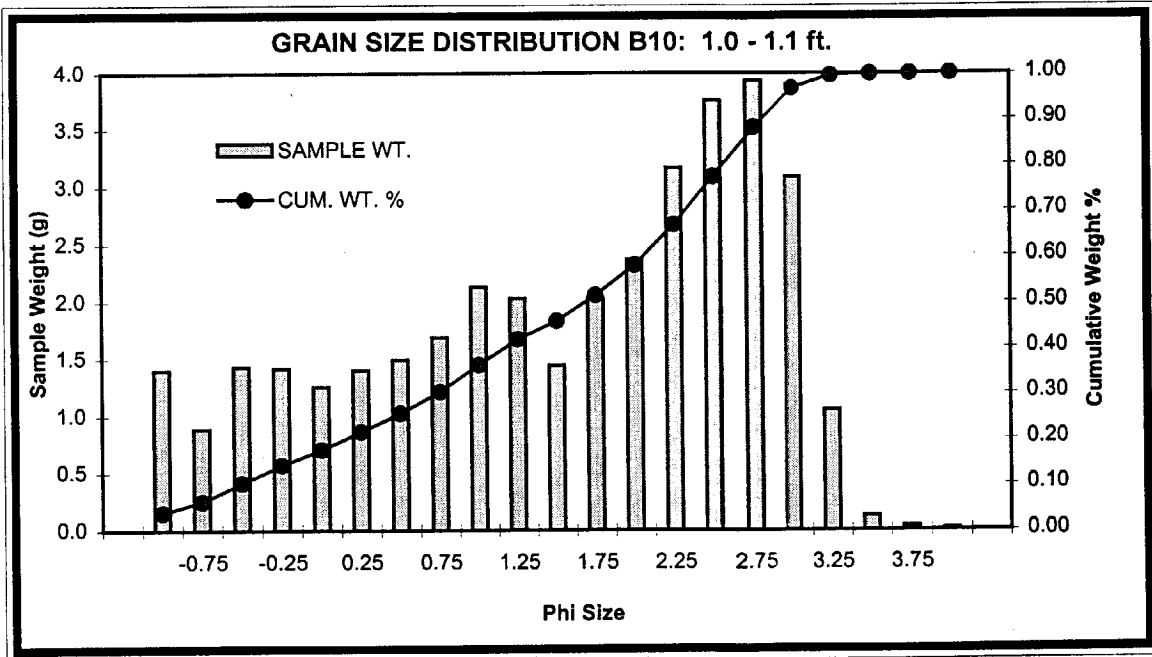


GRAIN SIZE DISTRIBUTION CHART

CORE B10: 1.0 - 1.1 ft.

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	1.3994	1.3994	0.038700328	0.038700328
-0.75	0.8868	2.2862	0.024524404	0.063224732
-0.50	1.4310	3.7172	0.039574224	0.102798957
-0.25	1.4189	5.1361	0.039239600	0.142038557
0.00	1.2565	6.3926	0.034748437	0.176786993
0.25	1.4055	7.7981	0.038869023	0.215656017
0.50	1.4932	9.2913	0.041294362	0.256950379
0.75	1.6892	10.9805	0.046714731	0.303665110
1.00	2.1298	13.1103	0.058899499	0.362564609
1.25	2.0346	15.1449	0.056266749	0.418831357
1.50	1.4442	16.5891	0.039939270	0.458770627
1.75	2.0333	18.6224	0.056230797	0.515001424
2.00	2.3695	20.9919	0.065528389	0.580529813
2.25	3.1668	24.1587	0.087577676	0.668107489
2.50	3.7556	27.9143	0.103860907	0.771968396
2.75	3.9314	31.8457	0.108722646	0.880691042
3.00	3.0845	34.9302	0.085301674	0.965992716
3.25	1.0529	35.9831	0.029117890	0.995110606
3.50	0.1256	36.1087	0.003473461	0.998584067
3.75	0.0361	36.1448	0.000998343	0.999582410
4.00	0.0151	36.1599	0.00041759	1

TOTAL WT. 36.1599 grams
 MEDIAN WT. 18.0800 grams
 MEAN GRAIN SIZE 1.6800 phi 0.3121 mm

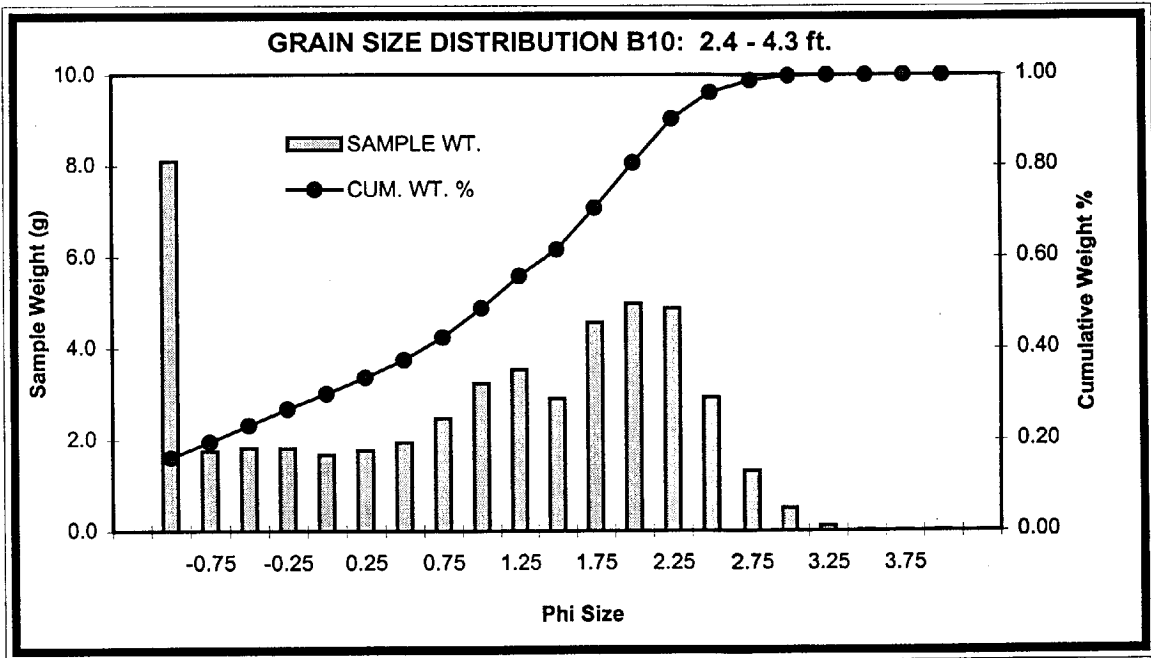


GRAIN SIZE DISTRIBUTION CHART

CORE B10: 2.4 - 4.3 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	8.0986	8.0986	0.160885700	0.160885700
-0.75	1.7527	9.8513	0.034818903	0.195704603
-0.50	1.8211	11.6724	0.036177728	0.231882331
-0.25	1.8166	13.4890	0.036088332	0.267970662
0.00	1.6689	15.1579	0.033154143	0.301124805
0.25	1.7703	16.9282	0.035168542	0.336293347
0.50	1.9437	18.8719	0.038613283	0.374906630
0.75	2.4704	21.3423	0.049076635	0.423983265
1.00	3.2281	24.5704	0.064129001	0.488112266
1.25	3.5365	28.1069	0.070255634	0.558367900
1.50	2.8982	31.0051	0.057575252	0.615943152
1.75	4.5675	35.5726	0.090737341	0.706680493
2.00	4.9882	40.5608	0.099094911	0.805775404
2.25	4.8815	45.4423	0.096975223	0.902750628
2.50	2.9306	48.3729	0.058218906	0.960969534
2.75	1.3153	49.6882	0.026129573	0.987099107
3.00	0.4966	50.1848	0.009865389	0.996964496
3.25	0.1087	50.2935	0.002159420	0.999123915
3.50	0.0148	50.3083	0.000294015	0.999417930
3.75	0.0175	50.3258	0.000347653	0.999765583
4.00	0.0118	50.3376	0.000234417	1

TOTAL WT.	50.3376	gráms	
MEDIAN WT.	25.1688	grams	
MEAN GRAIN SIZE	1.0400	phi	0.4863 mm

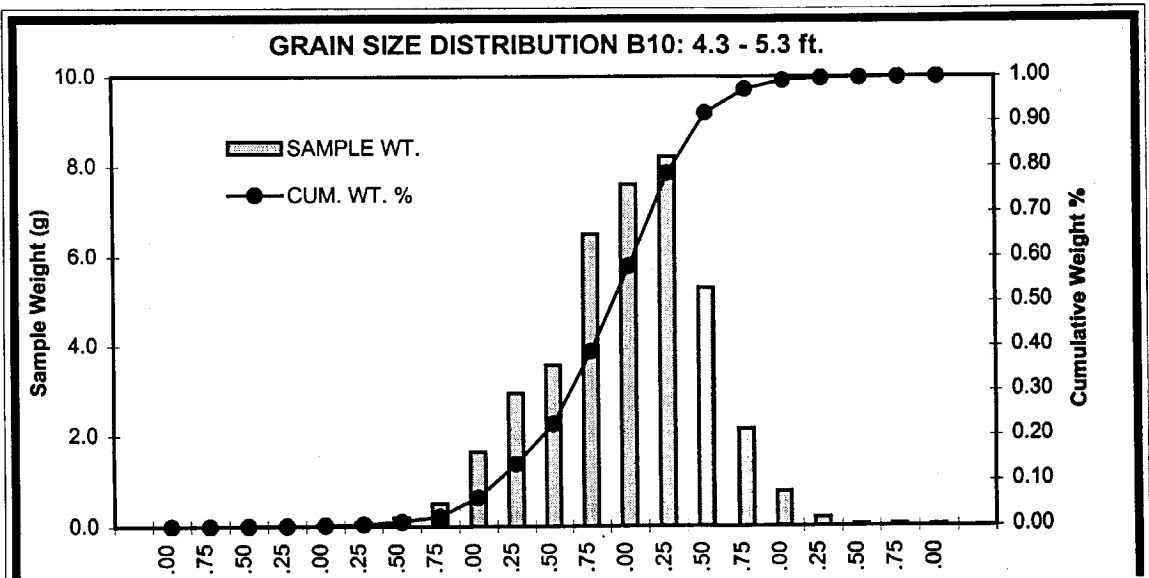


GRAIN SIZE DISTRIBUTION CHART

CORE B10: 4.3 - 5.3 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0	0	0	0
-0.75	0	0	0	0
-0.50	0.0178	0.0178	0.000445396	0.000445396
-0.25	0.0376	0.0554	0.000940837	0.001386234
0.00	0.0498	0.1052	0.001246109	0.002632343
0.25	0.0967	0.2019	0.002419653	0.005051996
0.50	0.1934	0.3953	0.004839307	0.009891303
0.75	0.4966	0.8919	0.012426059	0.022317362
1.00	1.6439	2.5358	0.041134109	0.063451472
1.25	2.9417	5.4775	0.073608011	0.137059483
1.50	3.5822	9.0597	0.089634775	0.226694258
1.75	6.5020	15.5617	0.162694798	0.389389056
2.00	7.6060	23.1677	0.190319384	0.579708441
2.25	8.2220	31.3897	0.205733102	0.785441543
2.50	5.3112	36.7009	0.132898279	0.918339822
2.75	2.1554	38.8563	0.053933000	0.972272823
3.00	0.7682	39.6245	0.019222108	0.991494930
3.25	0.1977	39.8222	0.004946903	0.996441833
3.50	0.0521	39.8743	0.001303660	0.997745493
3.75	0.0510	39.9253	0.001276136	0.999021629
4.00	0.0391	39.9644	0.000978371	1

TOTAL WT. 39.9644 grams
 MEDIAN WT. 19.9822 grams
 MEAN GRAIN SIZE 1.9000 phi 0.2679 mm

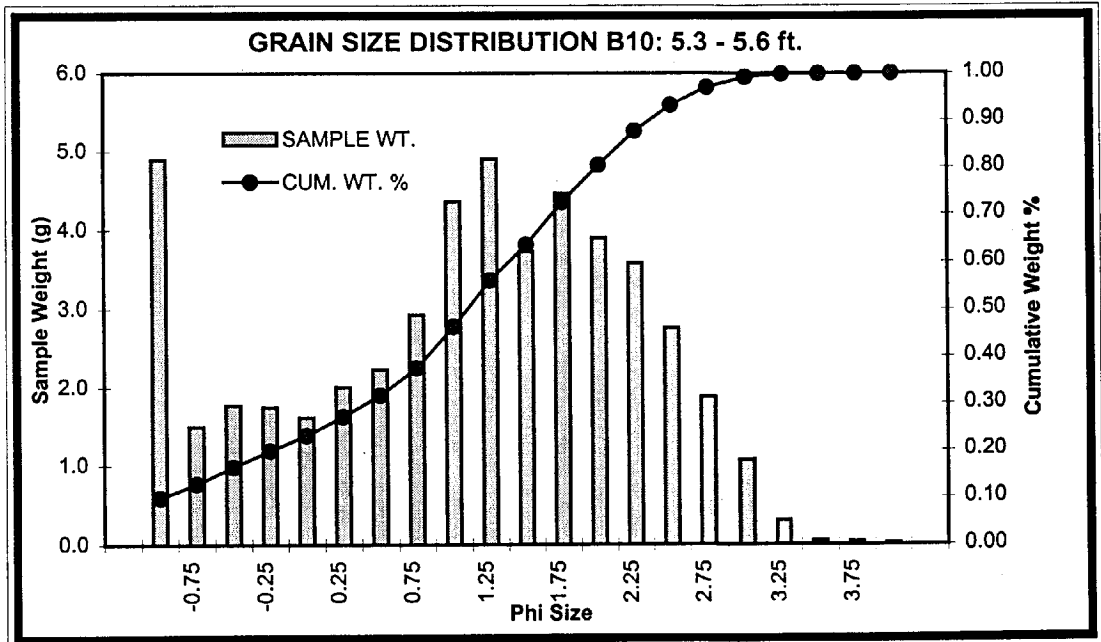


GRAIN SIZE DISTRIBUTION CHART

CORE B10: 5.3 - 5.6 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	4.8943	4.8943	0.098291946	0.098291946
-0.75	1.4978	6.3921	0.030080231	0.128372177
-0.50	1.771	8.1631	0.035566891	0.163939068
-0.25	1.7474	9.9105	0.035092934	0.199032002
0.00	1.6154	11.5259	0.032441985	0.231473988
0.25	2.0055	13.5314	0.040276341	0.271750329
0.50	2.2344	15.7658	0.044873327	0.316623656
0.75	2.9314	18.6972	0.058871138	0.375494793
1.00	4.357	23.0542	0.087501381	0.462996174
1.25	4.9032	27.9574	0.098470684	0.561466858
1.50	3.7278	31.6852	0.074865193	0.636332051
1.75	4.4665	36.1517	0.089700463	0.726032514
2.00	3.9033	40.055	0.07838975	0.804422264
2.25	3.5863	43.6413	0.072023457	0.876445721
2.50	2.7674	46.4087	0.055577535	0.932023256
2.75	1.8883	48.297	0.03792262	0.969945876
3.00	1.078	49.375	0.021649412	0.991595289
3.25	0.3109	49.6859	0.006243787	0.997839075
3.50	0.0488	49.7347	0.000980048	0.998819123
3.75	0.0371	49.7718	0.000745077	0.9995642
4.00	0.0217	49.7935	0.0004358	1

TOTAL WT.	49.7935	grams	
MEDIAN WT.	24.89675	grams	
MEAN GRAIN SIZE	1.09	phi	0.4698 mm

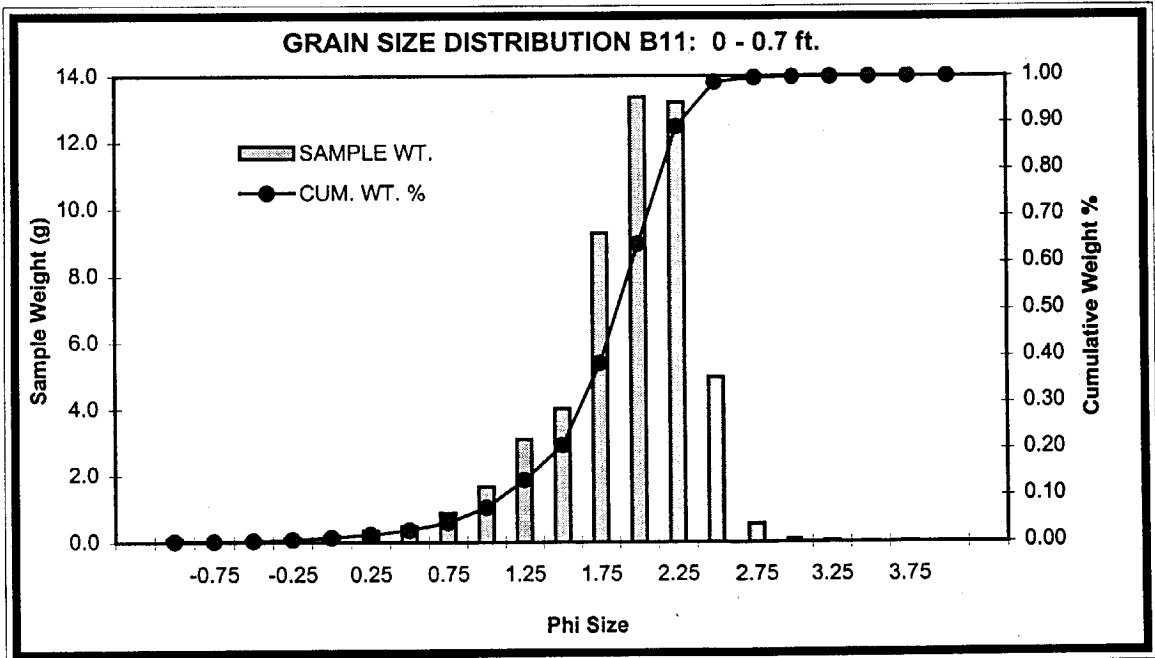


GRAIN SIZE DISTRIBUTION CHART

CORE B11: 0 - 0.7 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.1000	0.1000	0.001904363	0.001904363
-0.75	0.0210	0.1210	0.000399916	0.002304279
-0.50	0.0760	0.1970	0.001447316	0.003751595
-0.25	0.1360	0.3330	0.002589934	0.006341528
0.00	0.1970	0.5300	0.003751595	0.010093123
0.25	0.3400	0.8700	0.006474834	0.016567957
0.50	0.4790	1.3490	0.009121898	0.025689855
0.75	0.8660	2.2150	0.016491783	0.042181638
1.00	1.6570	3.8720	0.031555293	0.073736931
1.25	3.0870	6.9590	0.058787683	0.132524614
1.50	4.0090	10.9680	0.076345908	0.208870522
1.75	9.2760	20.2440	0.176648702	0.385519225
2.00	13.3610	33.6050	0.254441926	0.639961151
2.25	13.2010	46.8060	0.251394946	0.891356097
2.50	4.9670	51.7730	0.094589705	0.985945802
2.75	0.5590	52.3320	0.010645389	0.996591190
3.00	0.0880	52.4200	0.001675839	0.998267030
3.25	0.0360	52.4560	0.000685571	0.998952600
3.50	0.0210	52.4770	0.000399916	0.999352517
3.75	0.0180	52.4950	0.000342785	0.999695302
4.00	0.0160	52.5110	0.000304698	1

TOTAL WT.	52.5110	grams	
MEDIAN WT.	26.2555	grams	
MEAN GRAIN SIZE	1.8600	phi	0.2755 mm

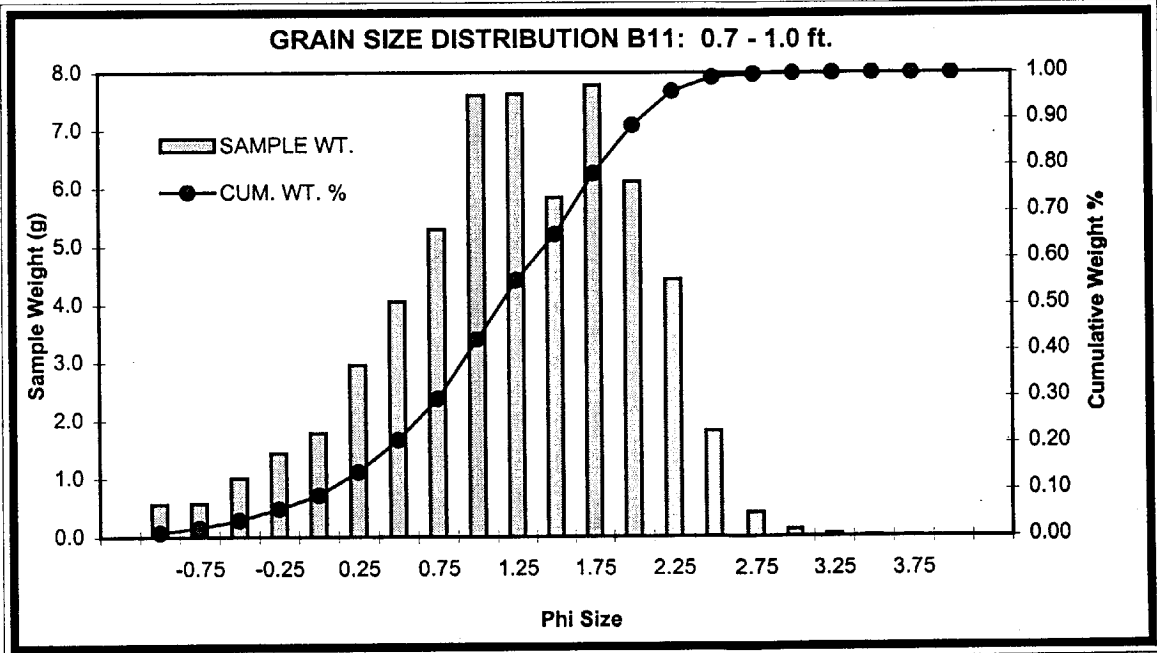


GRAIN SIZE DISTRIBUTION CHART

CORE B11: 0.7 - 1.0 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.5674	0.5674	0.009537513	0.009537513
-0.75	0.5750	1.1424	0.009665263	0.019202776
-0.50	1.0070	2.1494	0.016926816	0.036129592
-0.25	1.4370	3.5864	0.024154752	0.060284344
0.00	1.7820	5.3684	0.029953909	0.090238253
0.25	2.9590	8.3274	0.049738281	0.139976534
0.50	4.0570	12.3844	0.068194731	0.208171265
0.75	5.2940	17.6784	0.088987652	0.297158917
1.00	7.6040	25.2824	0.127816794	0.424975711
1.25	7.6290	32.9114	0.128237022	0.553212733
1.50	5.8410	38.7524	0.098182258	0.651394992
1.75	7.7770	46.5294	0.130724777	0.782119769
2.00	6.1120	52.6414	0.102737539	0.884857307
2.25	4.4330	57.0744	0.074514972	0.959372279
2.50	1.8140	58.8884	0.030491802	0.989864081
2.75	0.4090	59.2974	0.006874943	0.996739024
3.00	0.1230	59.4204	0.002067526	0.998806550
3.25	0.0430	59.4634	0.000722794	0.999529344
3.50	0.0130	59.4764	0.000218519	0.999747863
3.75	0.0090	59.4854	0.000151282	0.999899145
4.00	0.0060	59.4914	0.000100855	1

TOTAL WT.	59.4914	grams	
MEDIAN WT.	29.7457	grams	
MEAN GRAIN SIZE	1.1500	phi	0.4506 mm

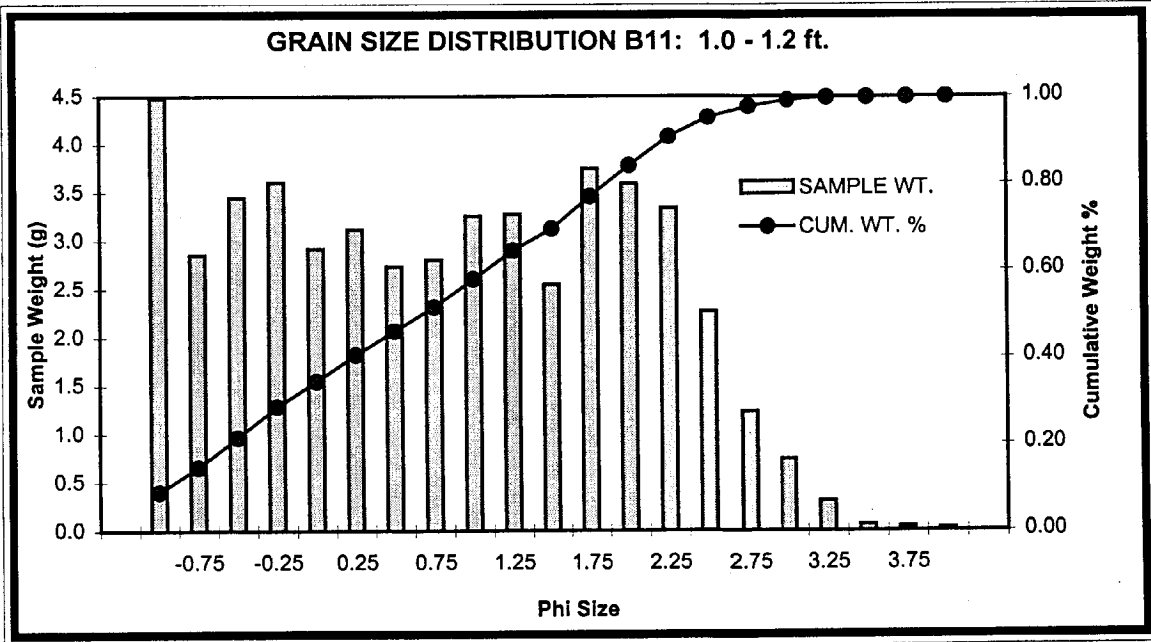


GRAIN SIZE DISTRIBUTION CHART

CORE B11: 1.0 - 1.2 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	4.4770	4.4770	0.088778282	0.088778282
-0.75	2.8590	7.3360	0.056693569	0.145471852
-0.50	3.4460	10.7820	0.068333697	0.213805548
-0.25	3.6110	14.3930	0.071605624	0.285411172
0.00	2.9190	17.3120	0.057883361	0.343294533
0.25	3.1190	20.4310	0.061849333	0.405143866
0.50	2.7390	23.1700	0.054313986	0.459457852
0.75	2.8060	25.9760	0.055642587	0.515100438
1.00	3.2590	29.2350	0.064625513	0.579725951
1.25	3.2770	32.5120	0.064982451	0.644708402
1.50	2.5500	35.0620	0.050566142	0.695274544
1.75	3.7480	38.8100	0.074322315	0.769596859
2.00	3.5970	42.4070	0.071328006	0.840924865
2.25	3.3410	45.7480	0.066251562	0.907176426
2.50	2.2700	48.0180	0.045013782	0.952190208
2.75	1.2360	49.2540	0.024509707	0.976699915
3.00	0.7410	49.9950	0.014693926	0.991393841
3.25	0.3080	50.3030	0.006107597	0.997501438
3.50	0.0600	50.3630	0.001189792	0.998691229
3.75	0.0420	50.4050	0.000832854	0.999524083
4.00	0.0240	50.4290	0.000475917	1

TOTAL WT. 50.4290 grams
 MEDIAN WT. 25.2145 grams
 MEAN GRAIN SIZE 0.6800 phi 0.6242 mm



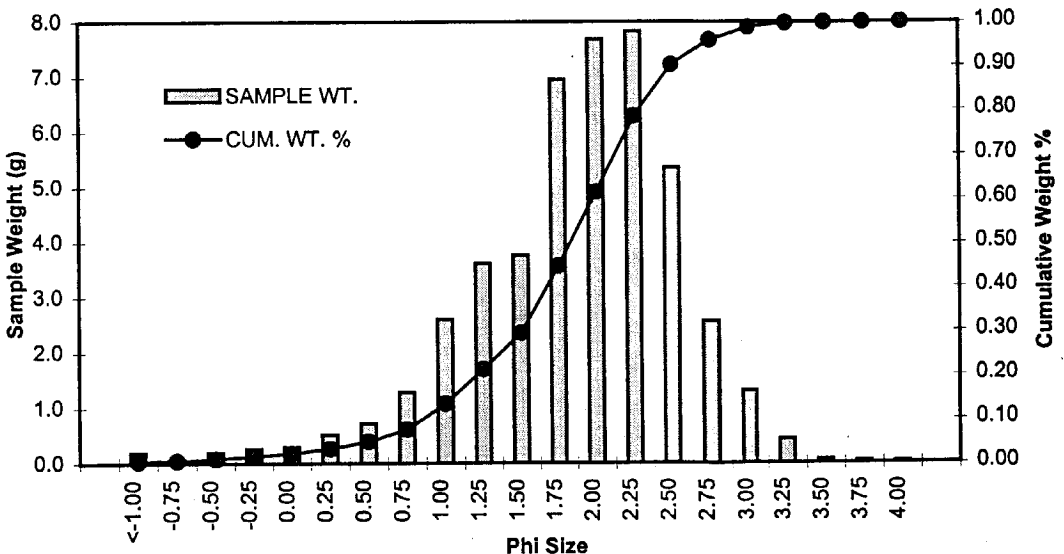
GRAIN SIZE DISTRIBUTION CHART

CORE B11: 1.2 - 1.5 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.1890	0.1890	0.004123666	0.004123666
-0.75	0.0680	0.2570	0.001483647	0.005607314
-0.50	0.2010	0.4580	0.004385486	0.009992800
-0.25	0.2670	0.7250	0.005825497	0.015818297
0.00	0.2970	1.0220	0.006480047	0.022298344
0.25	0.5180	1.5400	0.011301900	0.033600244
0.50	0.7270	2.2670	0.015861934	0.049462178
0.75	1.2870	3.5540	0.028080204	0.077542382
1.00	2.6150	6.1690	0.057054960	0.134597343
1.25	3.6230	9.7920	0.079047848	0.213645190
1.50	3.7700	13.5620	0.082255144	0.295900334
1.75	6.9490	20.5110	0.151615648	0.447515982
2.00	7.6850	28.1960	0.167673947	0.615189929
2.25	7.8330	36.0290	0.170903061	0.786092990
2.50	5.3530	41.3820	0.116793577	0.902886566
2.75	2.5790	43.9610	0.056269500	0.959156067
3.00	1.3140	45.2750	0.028669299	0.987825366
3.25	0.4330	45.7080	0.009447341	0.997272707
3.50	0.0670	45.7750	0.001461829	0.998734536
3.75	0.0360	45.8110	0.000785460	0.999519997
4.00	0.0220	45.8330	0.000480003	1

TOTAL WT.	45.833	grams	
MEDIAN WT.	22.9165	grams	
MEAN GRAIN SIZE	1.83	phi	0.2813 mm

GRAIN SIZE DISTRIBUTION B11: 1.2 - 1.5 ft.

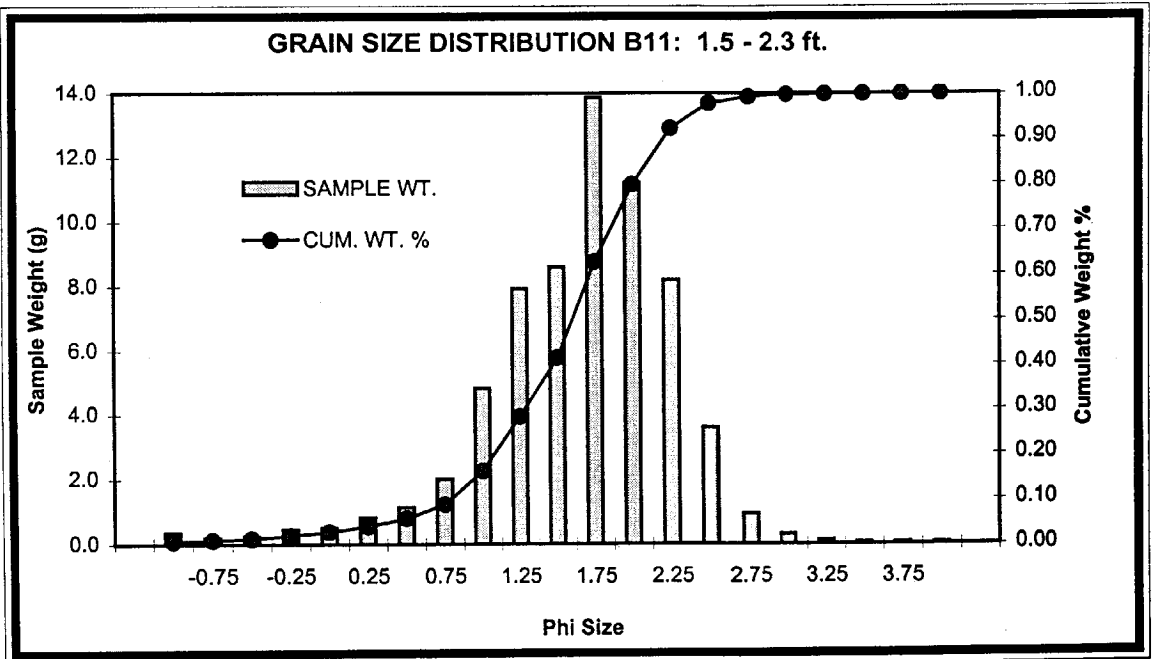


GRAIN SIZE DISTRIBUTION CHART

CORE B11: 1.5 - 2.3 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.3560	0.3560	0.005433373	0.005433373
-0.75	0.1930	0.5490	0.002945620	0.008378993
-0.50	0.2540	0.8030	0.003876620	0.012255613
-0.25	0.4550	1.2580	0.006944338	0.019199951
0.00	0.5000	1.7580	0.007631141	0.026831092
0.25	0.8330	2.5910	0.012713481	0.039544573
0.50	1.1430	3.7340	0.017444789	0.056989362
0.75	2.0180	5.7520	0.030799286	0.087788648
1.00	4.8440	10.5960	0.073930496	0.161719143
1.25	7.9430	18.5390	0.121228308	0.282947452
1.50	8.6060	27.1450	0.131347202	0.414294654
1.75	13.8650	41.0100	0.211611544	0.625906198
2.00	11.1970	52.2070	0.170891775	0.796797973
2.25	8.1990	60.4060	0.125135453	0.921933426
2.50	3.6200	64.0260	0.055249462	0.977182888
2.75	0.9410	64.9670	0.014361808	0.991544696
3.00	0.3030	65.2700	0.004624472	0.996169167
3.25	0.1210	65.3910	0.001846736	0.998015903
3.50	0.0470	65.4380	0.000717327	0.998733231
3.75	0.0480	65.4860	0.000732590	0.999465820
4.00	0.0350	65.5210	0.00053418	1

TOTAL WT. 65.5210 grams
 MEDIAN WT. 32.7605 grams
 MEAN GRAIN SIZE 1.6000 phi 0.3299 mm

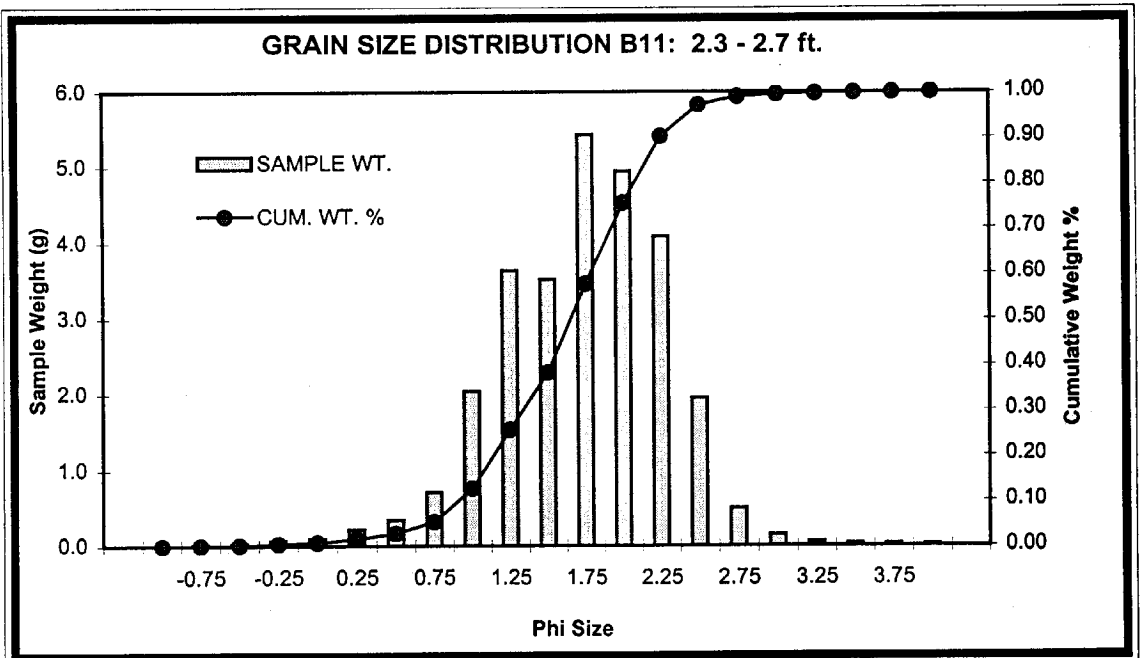


GRAIN SIZE DISTRIBUTION CHART

CORE B11: 2.3 - 2.7 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0	0	0	0
-0.75	0.0211	0.0211	0.000756286	0.000756286
-0.50	0.028	0.0491	0.001003602	0.001759888
-0.25	0.0668	0.1159	0.002394308	0.004154196
0.00	0.0896	0.2055	0.003211527	0.007365723
0.25	0.2139	0.4194	0.007666804	0.015032527
0.50	0.3423	0.7617	0.012269037	0.027301565
0.75	0.7127	1.4744	0.025545261	0.052846825
1.00	2.0418	3.5162	0.073184107	0.126030932
1.25	3.6427	7.1589	0.130565064	0.256595996
1.50	3.5218	10.6807	0.126231653	0.382827649
1.75	5.4337	16.1144	0.194759763	0.577587412
2.00	4.9497	21.0641	0.177411782	0.754999194
2.25	4.0927	25.1568	0.146694385	0.901693579
2.50	1.9598	27.1166	0.070244986	0.971938565
2.75	0.5012	27.6178	0.01796448	0.989903045
3.00	0.1486	27.7664	0.00532626	0.995229305
3.25	0.0611	27.8275	0.002190003	0.997419309
3.50	0.0293	27.8568	0.001050198	0.998469507
3.75	0.0266	27.8834	0.000953422	0.999422929
4.00	0.0161	27.8995	0.000577071	1

TOTAL WT. 27.8995 grams
 MEDIAN WT. 13.94975 grams
 MEAN GRAIN SIZE 1.65 phi 0.32 mm

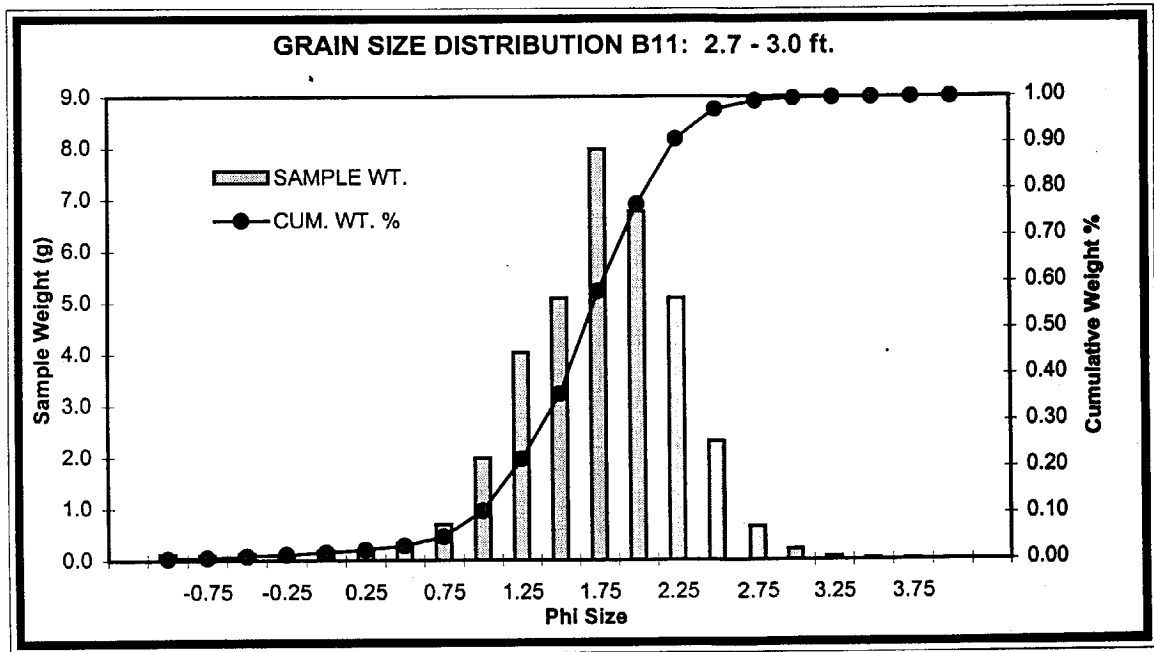


GRAIN SIZE DISTRIBUTION CHART

CORE B11: 2.7 - 3.0 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.1139	0.1139	0.00315343	0.00315343
-0.75	0.0947	0.2086	0.00262186	0.00577529
-0.50	0.1291	0.3377	0.003574256	0.009349546
-0.25	0.1100	0.4477	0.003045455	0.012395001
0.00	0.1842	0.6319	0.005099752	0.017494754
0.25	0.1961	0.8280	0.005429215	0.022923969
0.50	0.3360	1.1640	0.00930248	0.032226449
0.75	0.6998	1.8638	0.01937463	0.051601079
1.00	1.9865	3.8503	0.054998145	0.106599224
1.25	4.0347	7.8850	0.111704513	0.218303737
1.50	5.0927	12.9777	0.140996251	0.359299988
1.75	7.9819	20.9596	0.220986506	0.580286494
2.00	6.7680	27.7276	0.187378528	0.767665022
2.25	5.0937	32.8213	0.141023937	0.908688959
2.50	2.3179	35.1392	0.06417327	0.972862229
2.75	0.6500	35.7892	0.017995869	0.990858098
3.00	0.2117	36.0009	0.005861116	0.996719215
3.25	0.0668	36.0677	0.001849422	0.998568636
3.50	0.0220	36.0897	0.000609091	0.999177727
3.75	0.0179	36.1076	0.000495579	0.999673306
4.00	0.0118	36.1194	0.000326694	1

TOTAL WT.	36.1194	grams	
MEDIAN WT.	18.0597	grams	
EAN GRAIN SIZE	1.6600	phi	0.3164 mm



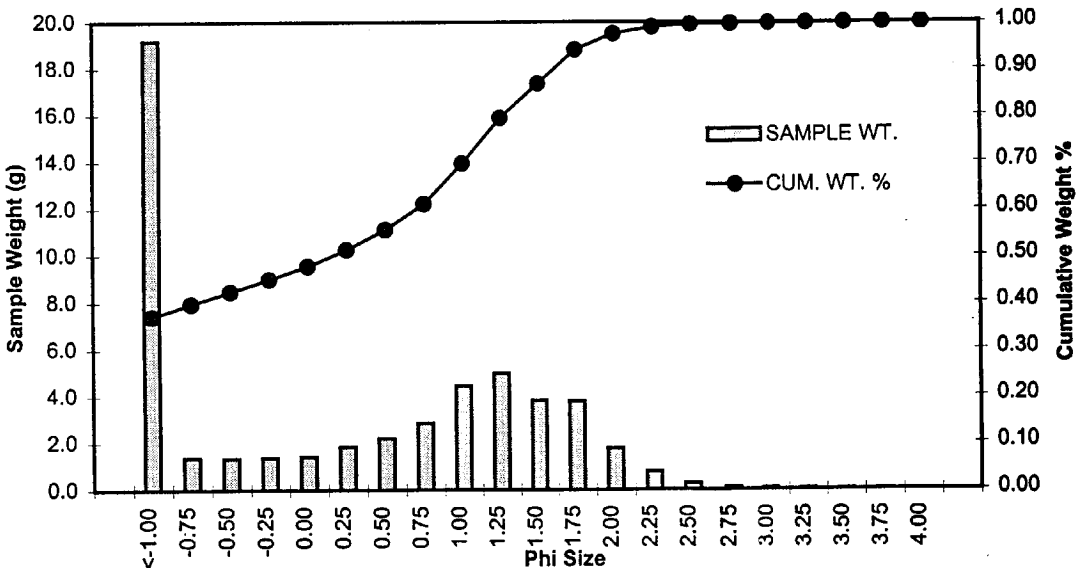
GRAIN SIZE DISTRIBUTION CHART

CORE B11: 3.0 - 3.5 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	19.1893	19.1893	0.370653738	0.370653738
-0.75	1.3733	20.5626	0.026526178	0.397179916
-0.50	1.3449	21.9075	0.025977613	0.423157529
-0.25	1.3978	23.3053	0.026999411	0.450156940
0.00	1.4443	24.7496	0.027897588	0.478054528
0.25	1.8438	26.5934	0.035614189	0.513668717
0.50	2.2173	28.8107	0.042828583	0.556497301
0.75	2.8650	31.6757	0.055339328	0.611836628
1.00	4.4627	36.1384	0.086199936	0.698036565
1.25	4.9913	41.1297	0.096410187	0.794446752
1.50	3.8132	44.9429	0.073654424	0.868101175
1.75	3.7858	48.7287	0.073125175	0.941226350
2.00	1.7554	50.4841	0.033906686	0.975133037
2.25	0.7665	51.2506	0.014805443	0.989938480
2.50	0.2694	51.5200	0.005203635	0.995142115
2.75	0.0981	51.6181	0.001894865	0.997036980
3.00	0.0528	51.6709	0.001019866	0.998056846
3.25	0.0368	51.7077	0.000710816	0.998767662
3.50	0.0219	51.7296	0.000423013	0.999190674
3.75	0.0244	51.7540	0.000471302	0.999661976
4.00	0.0175	51.7715	0.000338024	1

TOTAL WT. 51.7715 grams
 MEDIAN WT. 25.8858 grams
 MEAN GRAIN SIZE 0.2400 phi 0.85 mm

GRAIN SIZE DISTRIBUTION B11: 3.0 - 3.5 ft.



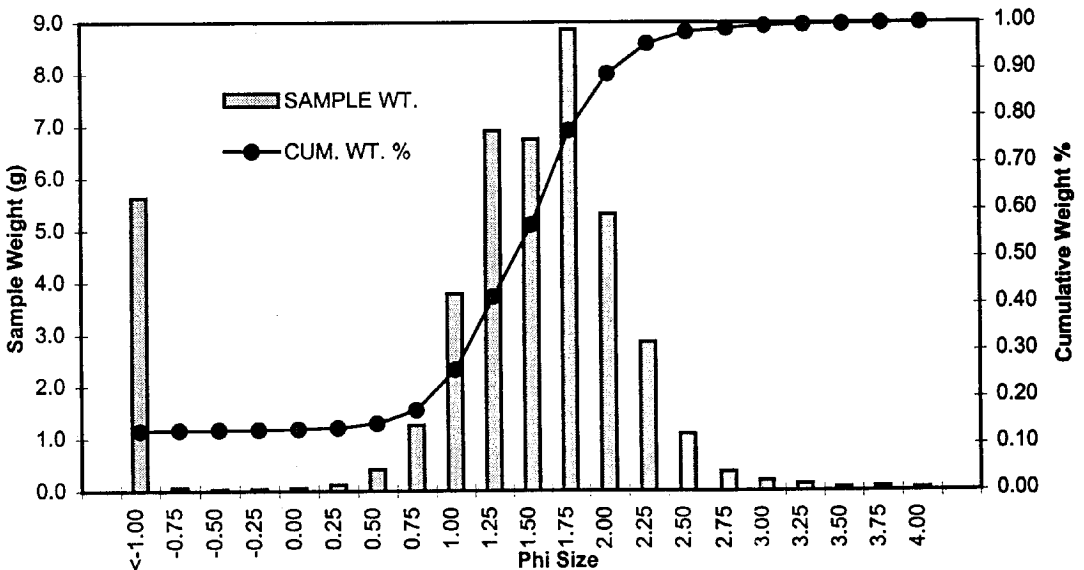
GRAIN SIZE DISTRIBUTION CHART

CORE B11: 3.5 - 4.3 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	5.6337	5.6337	0.127611428	0.127611428
-0.75	0.0704	5.7041	0.001594662	0.129206090
-0.50	0.0290	5.7331	0.000656892	0.129862981
-0.25	0.0378	5.7709	0.000856225	0.130719206
0.00	0.0602	5.8311	0.001363617	0.132082823
0.25	0.1250	5.9561	0.002831430	0.134914253
0.50	0.4191	6.3752	0.009493219	0.144407472
0.75	1.2632	7.6384	0.028613301	0.173020774
1.00	3.7877	11.4261	0.085796866	0.258817640
1.25	6.9139	18.3400	0.156609804	0.415427444
1.50	6.7562	25.0962	0.153037672	0.568465116
1.75	8.8640	33.9602	0.200782381	0.769247496
2.00	5.3209	39.2811	0.120526057	0.889773554
2.25	2.8610	42.1421	0.064805775	0.954579329
2.50	1.0890	43.2311	0.024667420	0.979246749
2.75	0.3800	43.6111	0.008607548	0.987854297
3.00	0.1901	43.8012	0.004306039	0.992160336
3.25	0.1346	43.9358	0.003048884	0.995209220
3.50	0.0700	44.0058	0.001585601	0.996794821
3.75	0.0829	44.0887	0.001877805	0.998672626
4.00	0.0586	44.1473	0.001327374	1

TOTAL WT.	44.1473	grams	
MEDIAN WT.	22.0737	grams	
MEAN GRAIN SIZE	1.3900	phi	0.3816 mm

GRAIN SIZE DISTRIBUTION B11: 3.5 - 4.3 ft.

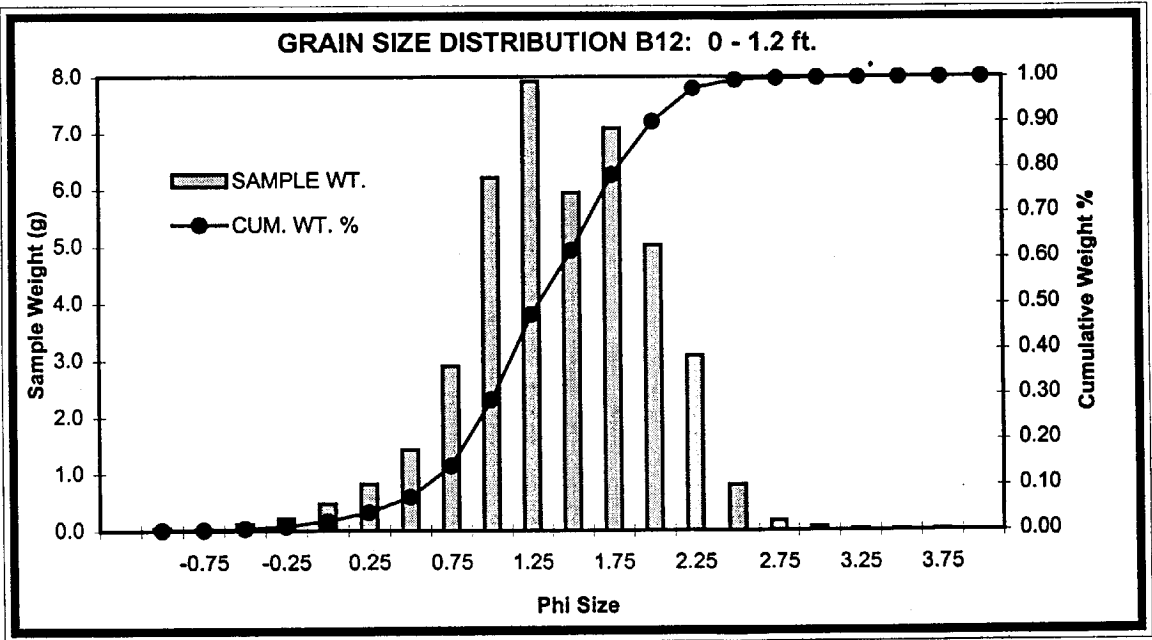


GRAIN SIZE DISTRIBUTION CHART

CORE B12: 0-1.2 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.0483	0.0483	0.001139218	0.001139218
-0.75	0.0384	0.0867	0.000905714	0.002044932
-0.50	0.1211	0.2078	0.002856300	0.004901232
-0.25	0.2161	0.4239	0.005096999	0.009998231
0.00	0.4719	0.8958	0.011130373	0.021128604
0.25	0.8289	1.7247	0.019550681	0.040679285
0.50	1.4255	3.1502	0.033622265	0.074301551
0.75	2.8968	6.0470	0.068324783	0.142626334
1.00	6.2040	12.2510	0.146329383	0.288955717
1.25	7.9073	20.1583	0.186503921	0.475459638
1.50	5.9424	26.1007	0.140159208	0.615618845
1.75	7.0818	33.1825	0.167033434	0.782652279
2.00	5.0230	38.2055	0.118473967	0.901126246
2.25	3.0773	41.2828	0.072582110	0.973708355
2.50	0.8069	42.0897	0.019031783	0.992740138
2.75	0.1635	42.2532	0.003856359	0.996596497
3.00	0.0620	42.3152	0.001462350	0.998058848
3.25	0.0346	42.3498	0.000816086	0.998874934
3.50	0.0189	42.3687	0.000445781	0.999320715
3.75	0.0230	42.3917	0.000542485	0.999863199
4.00	0.0058	42.3975	0.000136801	1

TOTAL WT. 42.3975 grams
 MEDIAN WT. 21.19875 grams
 MEAN GRAIN SIZE 1.04 phi 0.4863 mm

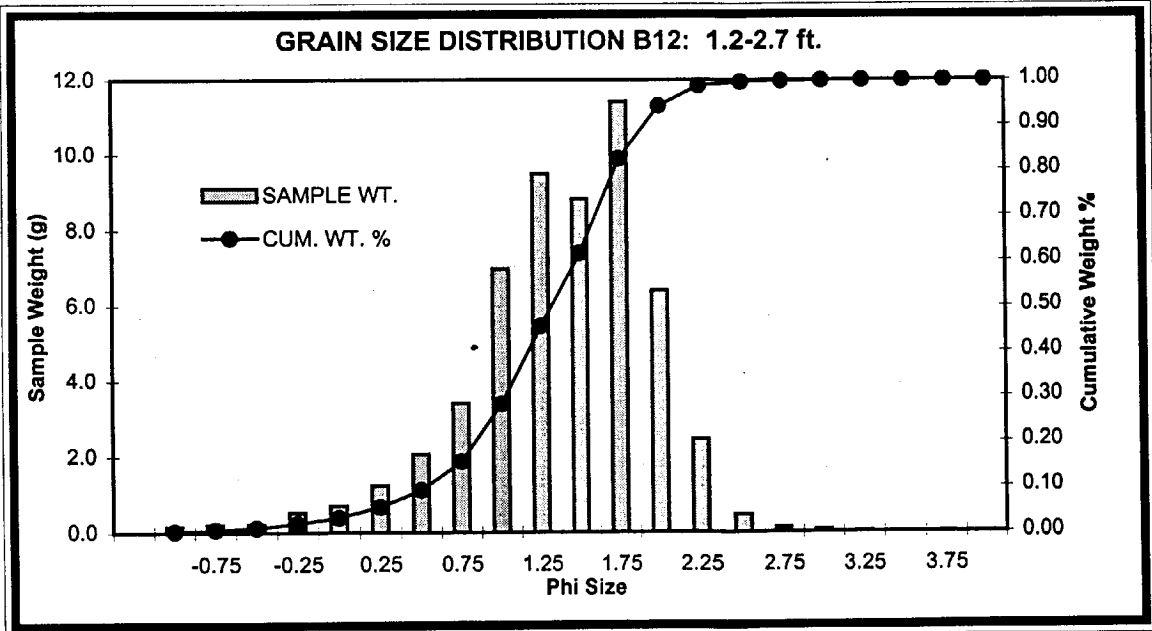


GRAIN SIZE DISTRIBUTION CHART

CORE B12: 1.2-2.7 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.1638	0.1638	0.002985015	0.002985015
-0.75	0.2034	0.3672	0.003706667	0.006691682
-0.50	0.2163	0.5835	0.003941750	0.010633432
-0.25	0.5264	1.1099	0.009592868	0.020226300
0.00	0.7060	1.8159	0.012865815	0.033092114
0.25	1.2490	3.0649	0.022761193	0.055853308
0.50	2.0618	5.1267	0.037573281	0.093426589
0.75	3.4167	8.5434	0.062264347	0.155690936
1.00	6.9795	15.5229	0.127191152	0.282882088
1.25	9.5032	25.0261	0.173181884	0.456063972
1.50	8.8204	33.8465	0.160738855	0.616802827
1.75	11.4224	45.2689	0.208156489	0.824959316
2.00	6.4153	51.6842	0.116909435	0.941868750
2.25	2.4618	54.146	0.044862695	0.986731445
2.50	0.4682	54.6142	0.008532258	0.995263704
2.75	0.1213	54.7355	0.002210515	0.997474218
3.00	0.0720	54.8075	0.001312094	0.998786313
3.25	0.0355	54.843	0.000646935	0.999433248
3.50	0.0148	54.8578	0.000269708	0.999702956
3.75	0.0093	54.8671	0.000169479	0.999872435
4.00	0.0070	54.8741	0.000127565	1

TOTAL WT. 54.8741 grams
 MEDIAN WT. 27.43705 grams
 MEAN GRAIN SIZE 1.32 phi 0.4005 mm



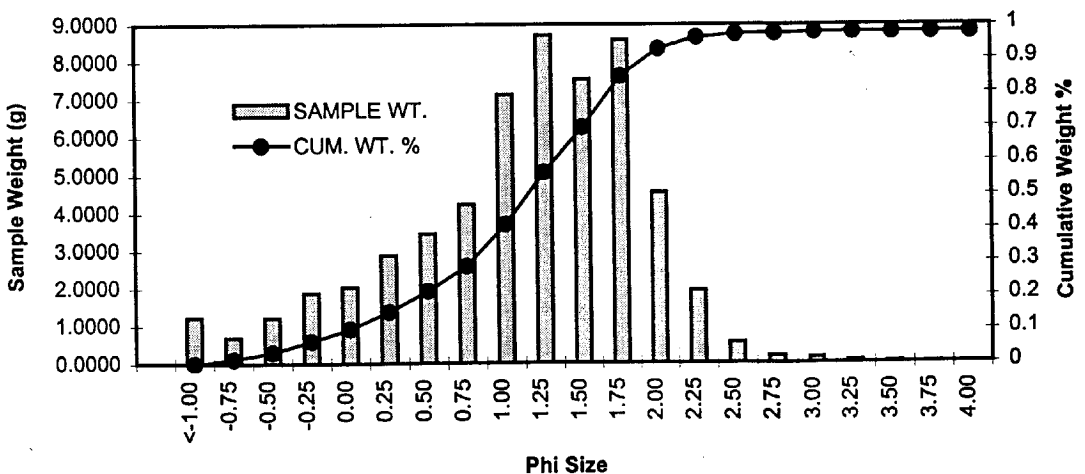
GRAIN SIZE DISTRIBUTION CHART

CORE B12: 2.7- 3.1 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	1.2134	1.2134	0	0.000000000
-0.75	0.6828	1.8962	0.011968071	0.011968071
-0.50	1.2116	3.1078	0.021236841	0.033204912
-0.25	1.8770	4.9848	0.032899926	0.066104838
0.00	2.0360	7.0208	0.035686867	0.101791705
0.25	2.8790	9.8998	0.050462913	0.152254618
0.50	3.4632	13.3630	0.060702730	0.212957348
0.75	4.2385	17.6015	0.074292135	0.287249482
1.00	7.1377	24.7392	0.125109111	0.412358593
1.25	8.7235	33.4627	0.152904904	0.565263497
1.50	7.5423	41.0050	0.132200912	0.697464410
1.75	8.5888	49.5938	0.150543892	0.848008301
2.00	4.5516	54.1454	0.079780130	0.927788431
2.25	1.9267	56.0721	0.033771064	0.961559495
2.50	0.5498	56.6219	0.009636856	0.971196351
2.75	0.1842	56.8061	0.003228645	0.974424996
3.00	0.1347	56.9408	0.002361012	0.976786009
3.25	0.0684	57.0092	0.001198910	0.977984919
3.50	0.0253	57.0345	0.000443457	0.978428376
3.75	0.0119	57.0464	0.000208582	0.978636958
4.00	0.0054	57.0518	0.000094651	0.978731609

TOTAL WT. 57.0518 grams
 MEDIAN WT. 28.5259 grams
 MEAN GRAIN SIZE 1.1100 phi 0.4633 mm

GRAIN SIZE DISTRIBUTION B12: 2.7- 3. ft.

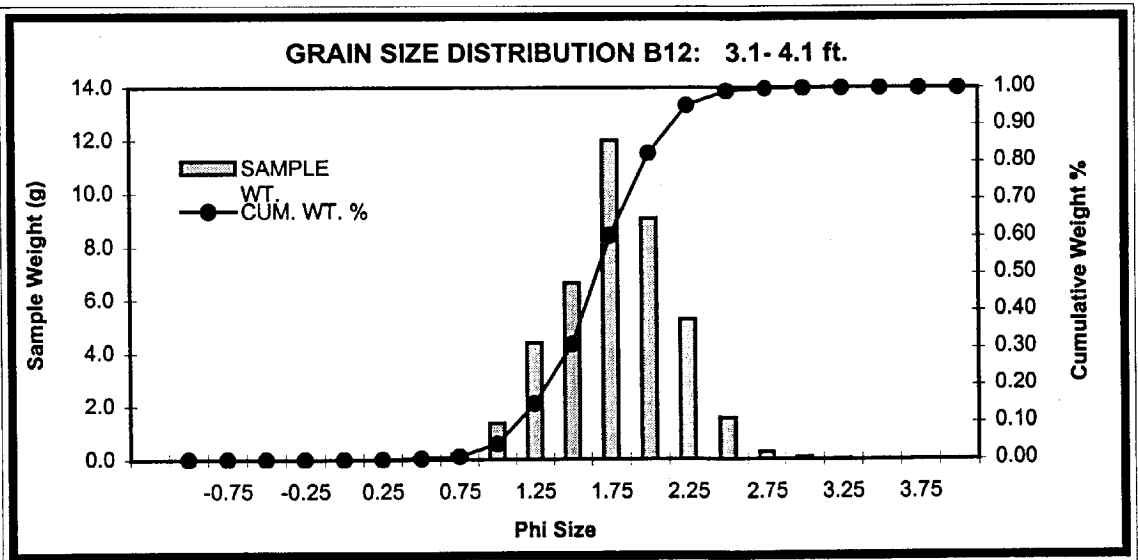


GRAIN SIZE DISTRIBUTION CHART

CORE B12: 3.1- 4.1 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0	0	0	0
-0.75	0	0	0	0
-0.50	0.0040	0.0040	0.000097252	0.000097252
-0.25	0.0022	0.0062	0.000053489	0.000150741
0.00	0.0098	0.0160	0.000238268	0.000389010
0.25	0.0301	0.0461	0.000731824	0.001120834
0.50	0.0888	0.1349	0.002159003	0.003279836
0.75	0.2345	0.3694	0.005701421	0.008981257
1.00	1.3769	1.7463	0.033476700	0.042457957
1.25	4.4051	6.1514	0.107101612	0.149559568
1.50	6.6521	12.8035	0.161733135	0.311292703
1.75	11.9962	24.7997	0.291664742	0.602957445
2.00	9.0767	33.8764	0.220682663	0.823640108
2.25	5.2880	39.1644	0.128567643	0.952207751
2.50	1.5578	40.7222	0.037874938	0.990082689
2.75	0.2704	40.9926	0.006574261	0.996656950
3.00	0.0837	41.0763	0.002035006	0.998691956
3.25	0.0276	41.1039	0.000671041	0.999362997
3.50	0.0116	41.1155	0.000282032	0.999645029
3.75	0.0095	41.1250	0.000230974	0.999876003
4.00	0.0051	41.1301	0.000123997	1

TOTAL WT.	41.1301	grams	
MEDIAN WT.	20.5651	grams	
MEAN GRAIN SIZE	1.6600	phi	0.3164 mm

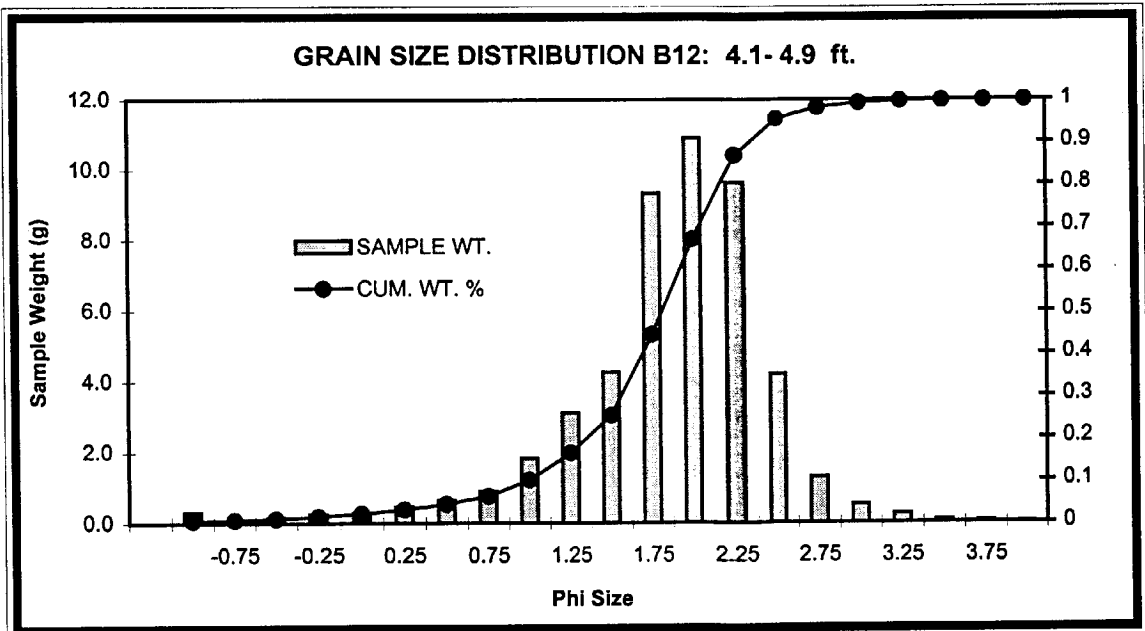


GRAIN SIZE DISTRIBUTION CHART

CORE12: 4.1- 4.9 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.3075	0.3075	0.006332333	0.006332333
-0.75	0.0464	0.3539	0.000955513	0.007287846
-0.50	0.1724	0.5263	0.003550225	0.010838071
-0.25	0.2528	0.7791	0.005205899	0.016043970
0.00	0.2915	1.0706	0.006002846	0.022046816
0.25	0.4625	1.5331	0.009524241	0.031571057
0.50	0.6363	2.1694	0.013103296	0.044674353
0.75	0.9025	3.0719	0.018585141	0.063259494
1.00	1.8244	4.8963	0.037569784	0.100829278
1.25	3.1149	8.0112	0.064144991	0.164974269
1.50	4.2681	12.2793	0.087892785	0.252867054
1.75	9.3226	21.6019	0.191979868	0.444846922
2.00	10.9066	32.5085	0.224599107	0.669446029
2.25	9.6274	42.1359	0.198256601	0.867702630
2.50	4.2217	46.3576	0.086937272	0.954639901
2.75	1.2964	47.6540	0.026696705	0.981336606
3.00	0.5214	48.1754	0.010737166	0.992073772
3.25	0.2453	48.4207	0.005051451	0.997125224
3.50	0.0752	48.4959	0.001548590	0.998673814
3.75	0.0442	48.5401	0.000910209	0.999584022
4.00	0.0202	48.5603	0.000415978	1

TOTAL WT.	48.5603	grams	
MEDIAN WT.	24.28015	grams	
MEAN GRAIN SIZE	1.81	phi	0.2852 mm

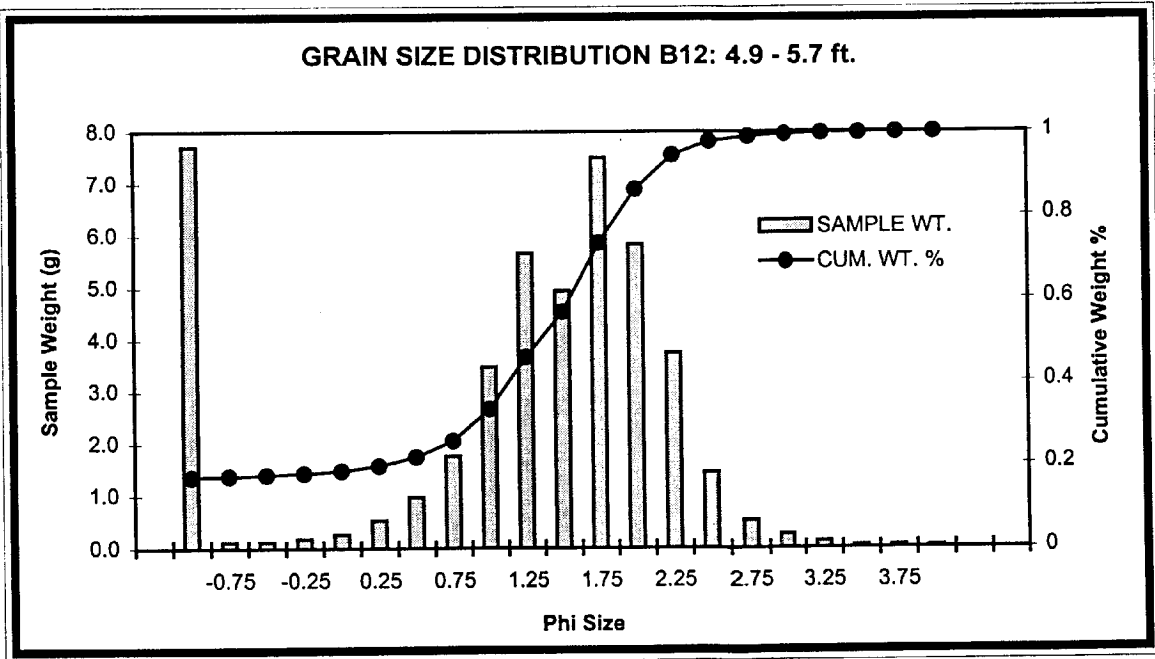


GRAIN SIZE DISTRIBUTION CHART

CORE B12: 4.9- 5.7 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	7.7120	7.7120	0.169815101	0.169815101
-0.75	0.1180	7.8300	0.002598312	0.172413413
-0.50	0.1302	7.9602	0.002866951	0.175280364
-0.25	0.1825	8.1427	0.004018576	0.179298940
0.00	0.2742	8.4169	0.006037772	0.185336713
0.25	0.5312	8.9481	0.011696808	0.197033520
0.50	0.9788	9.9269	0.021552778	0.218586298
0.75	1.7641	11.6910	0.038844764	0.257431062
1.00	3.4911	15.1821	0.076872601	0.334303663
1.25	5.6678	20.8499	0.124802649	0.459106313
1.50	4.9454	25.7953	0.108895695	0.568002008
1.75	7.5004	33.2957	0.165155756	0.733157764
2.00	5.8435	39.1392	0.128671492	0.861829256
2.25	3.7544	42.8936	0.082670360	0.944499616
2.50	1.4513	44.3449	0.031957035	0.976456651
2.75	0.5316	44.8765	0.011705616	0.988162267
3.00	0.2643	45.1408	0.005819778	0.993982045
3.25	0.1327	45.2735	0.002922000	0.996904045
3.50	0.0518	45.3253	0.001140615	0.998044660
3.75	0.0516	45.3769	0.001136211	0.999180871
4.00	0.0372	45.4141	0.000819129	1.0

TOTAL WT.	45.4141	grams	
MEDIAN WT.	22.7071	grams	
MEAN GRAIN SIZE	1.34	phi	0.3950 mm

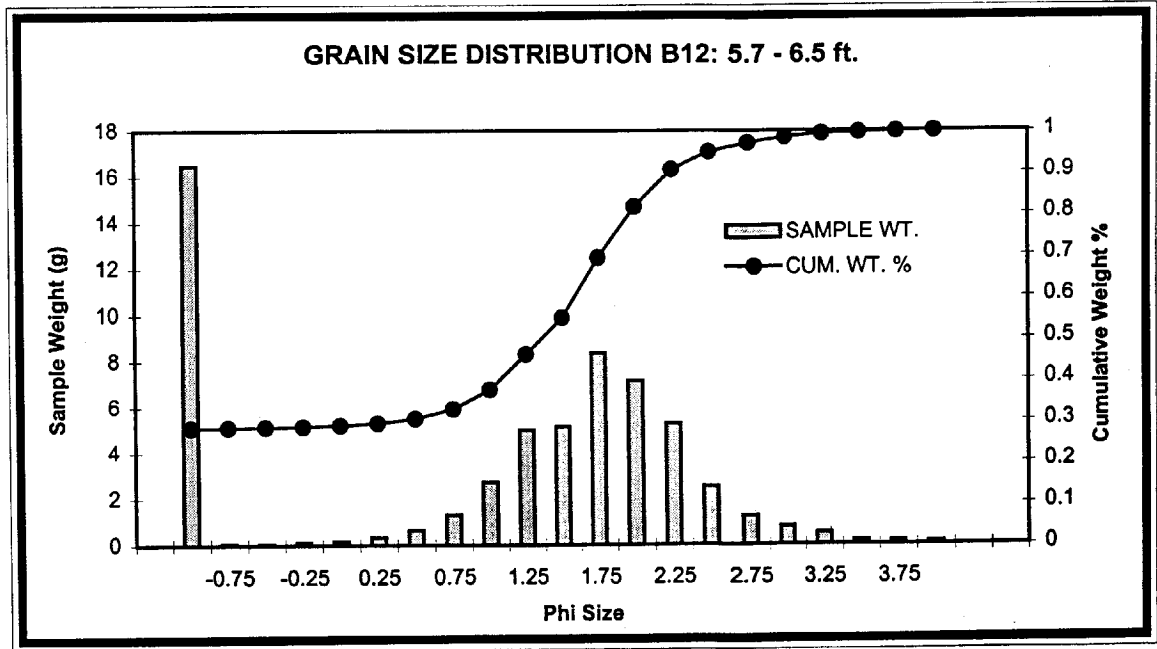


GRAIN SIZE DISTRIBUTION CHART

CORE B12: 5.7- 6.5 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	16.4927	16.4927	0.283052901	0.283052901
-0.75	0.0579	16.5506	0.000993698	0.284046599
-0.50	0.0705	16.6211	0.001209943	0.285256542
-0.25	0.1218	16.7429	0.002090370	0.287346912
0.00	0.1660	16.9089	0.002848944	0.290195856
0.25	0.3300	17.2389	0.005663564	0.295859420
0.50	0.6374	17.8763	0.010939259	0.306798679
0.75	1.2995	19.1758	0.022302427	0.329101107
1.00	2.7193	21.8951	0.046669481	0.375770588
1.25	4.9878	26.8829	0.085602191	0.461372779
1.50	5.1276	32.0105	0.088001483	0.549374262
1.75	8.3562	40.3667	0.143411731	0.692785993
2.00	7.1391	47.5058	0.122523478	0.815309471
2.25	5.2631	52.7689	0.090326976	0.905636447
2.50	2.5242	55.2931	0.043321114	0.948957561
2.75	1.2601	56.5532	0.021626232	0.970583793
3.00	0.7921	57.3453	0.013594269	0.984178062
3.25	0.5016	57.8469	0.008608617	0.992786679
3.50	0.1802	58.0271	0.003092649	0.995879328
3.75	0.1470	58.1741	0.002522860	0.998402189
4.00	0.0931	58.2672	0.001597811	1

TOTAL WT.	58.2672	grams	
MEDIAN WT.	29.1336	grams	
MEAN GRAIN SIZE	1.36	phi	0.3896 mm

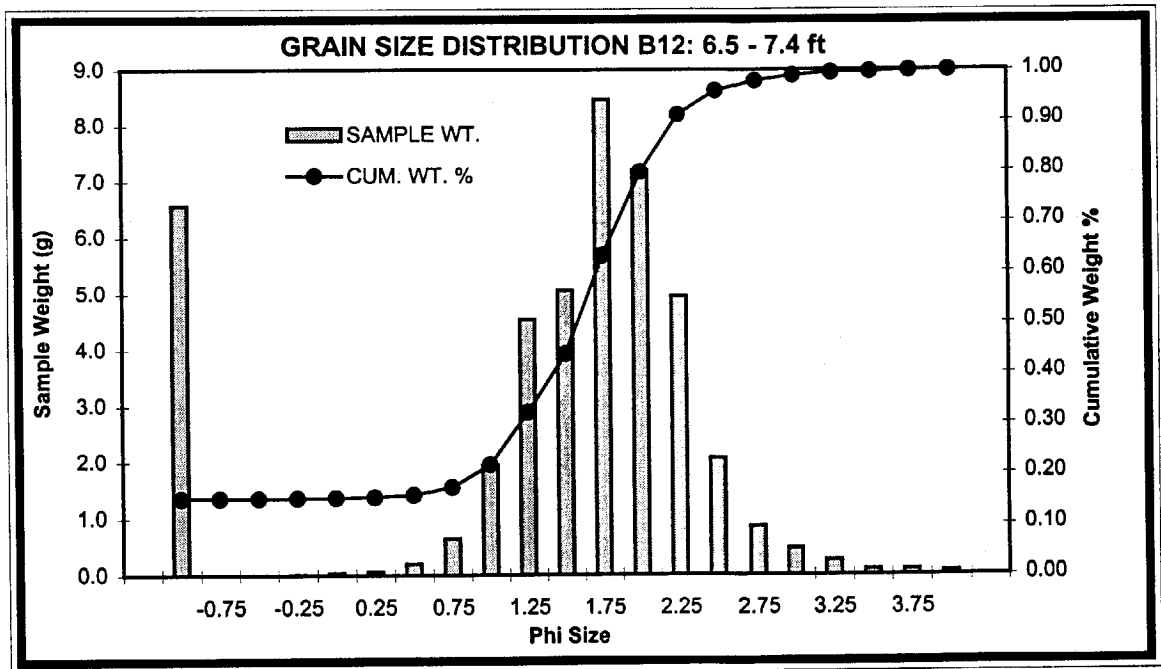


GRAIN SIZE DISTRIBUTION CHART

CORE B12: 6.5 - 7.4 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	6.5756	6.5756	0.150661015	0.150661015
-0.75	0	6.5756	0	0.150661015
-0.50	0.0062	6.5818	0.000142055	0.150803070
-0.25	0.0137	6.5955	0.000313896	0.151116966
0.00	0.0317	6.6272	0.000726315	0.151843281
0.25	0.0649	6.6921	0.001486997	0.153330278
0.50	0.2005	6.8926	0.004593882	0.157924161
0.75	0.6411	7.5337	0.014688968	0.172613129
1.00	1.9508	9.4845	0.044696987	0.217310116
1.25	4.5471	14.0316	0.104183755	0.321493871
1.50	5.0632	19.0948	0.116008707	0.437502578
1.75	8.4701	27.5649	0.194068049	0.631570627
2.00	7.2051	34.7700	0.165084202	0.796654829
2.25	4.9657	39.7357	0.113774774	0.910429602
2.50	2.0746	41.8103	0.047533509	0.957963111
2.75	0.8658	42.6761	0.019837324	0.977800435
3.00	0.4647	43.1408	0.010647268	0.988447703
3.25	0.2545	43.3953	0.005831138	0.994278841
3.50	0.0916	43.4869	0.002098751	0.996377592
3.75	0.0939	43.5808	0.002151449	0.998529041
4.00	0.0642	43.6450	0.001470959	1

TOTAL WT.	43.6450	grams	
MEDIAN WT.	21.8225	grams	
MEAN GRAIN SIZE	1.5800	phi	0.3345 mm

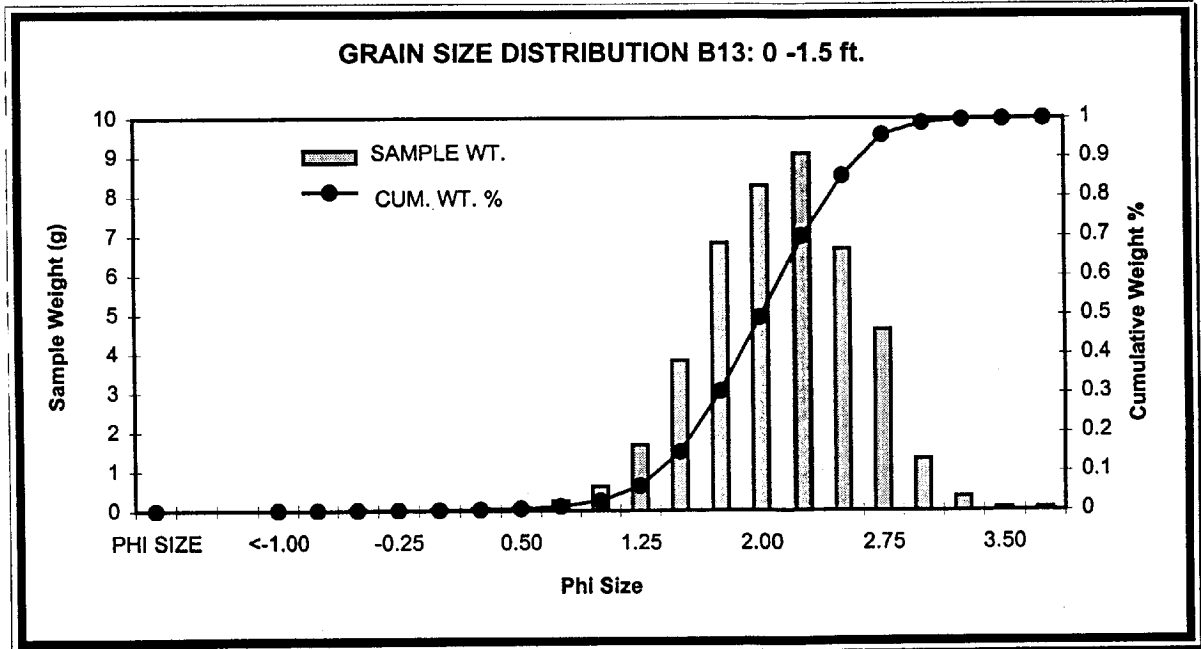


GRAIN SIZE DISTRIBUTION CHART

CORE B13: 0 - 1.5 ft.

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0	0	0	0
-0.75	0	0	0	0
-0.50	0.0288	0.0288	0.000655183	0.000655183
-0.25	0	0.0288	0	0.000655183
0.00	0.0409	0.0697	0.000930451	0.001585633
0.25	0.0736	0.1433	0.001674356	0.003259989
0.50	0.0906	0.2339	0.002061096	0.005321085
0.75	0.2542	0.4881	0.005782898	0.011103983
1.00	0.6108	1.0989	0.013895335	0.024999318
1.25	1.6658	2.7647	0.037895953	0.062895271
1.50	3.8271	6.5918	0.087064235	0.149959506
1.75	6.8325	13.4243	0.155435287	0.305394793
2.00	8.2851	21.7094	0.188481068	0.493875861
2.25	9.089	30.7984	0.206769312	0.700645173
2.50	6.6703	37.4687	0.151745334	0.852390507
2.75	4.6288	42.0975	0.105302431	0.957692938
3.00	1.3211	43.4186	0.030054235	0.987747172
3.25	0.3501	43.7687	0.007964566	0.995711738
3.50	0.0702	43.8389	0.001597008	0.997308746
3.75	0.0701	43.909	0.001594733	0.998903479
4.00	0.0482	43.9572	0.001096521	1

TOTAL WT.	43.9572	grams	
MEDIAN WT.	21.9786	grams	
MEAN GRAIN SIZE	2.01	phi	0.2483 mm

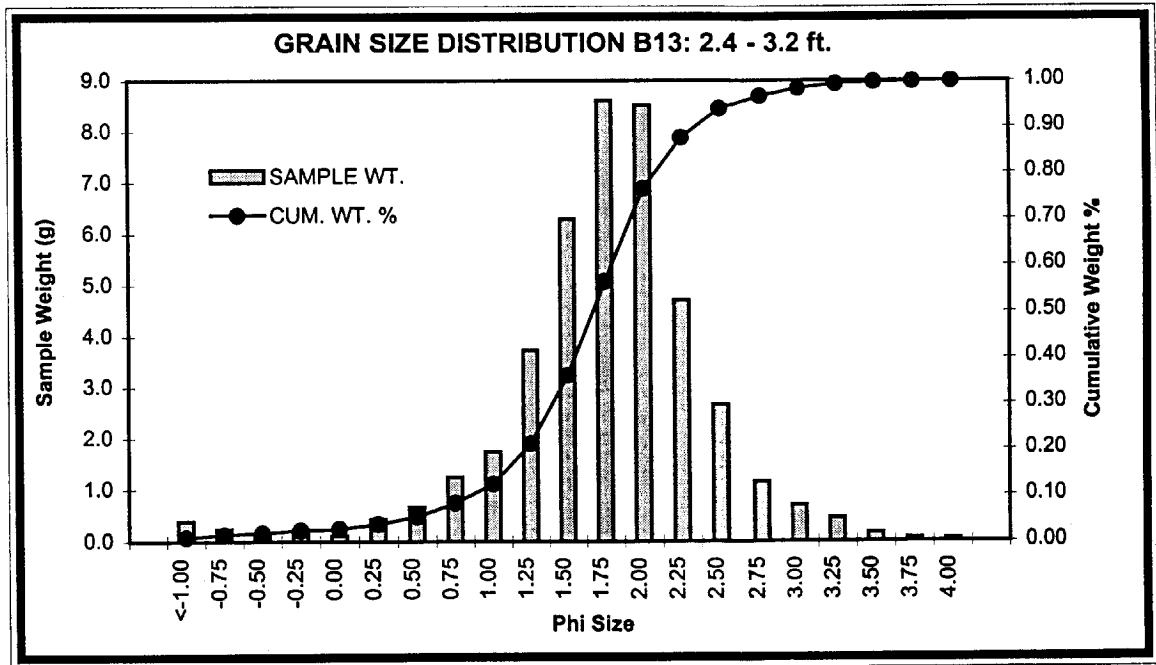


GRAIN SIZE DISTRIBUTION CHART

CORE B13: 2.4 - 3.2 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.4014	0.4014	0.009482054	0.009482054
-0.75	0.2501	0.6515	0.005907976	0.015390030
-0.50	0.1399	0.7914	0.003304782	0.018694812
-0.25	0.2465	1.0379	0.005822936	0.024517748
0.00	0.1129	1.1508	0.002666975	0.027184723
0.25	0.4267	1.5775	0.010079702	0.037264425
0.50	0.6583	2.2358	0.015550663	0.052815088
0.75	1.2439	3.4797	0.029383974	0.082199062
1.00	1.7423	5.2220	0.041157406	0.123356468
1.25	3.7263	8.9483	0.088024359	0.211380827
1.50	6.2874	15.2357	0.148523833	0.359904660
1.75	8.5988	23.8345	0.203124779	0.563029438
2.00	8.5104	32.3449	0.201036553	0.764065992
2.25	4.7133	37.0582	0.111339724	0.875405716
2.50	2.6671	39.7253	0.063003454	0.938409169
2.75	1.1596	40.8849	0.027392601	0.965801770
3.00	0.6994	41.5843	0.016521546	0.982323316
3.25	0.4544	42.0387	0.010734044	0.993057360
3.50	0.1666	42.2053	0.003935501	0.996992861
3.75	0.0707	42.2760	0.001670108	0.998662969
4.00	0.0566	42.3326	0.001337031	1

TOTAL WT.	42.3326	grams	
MEDIAN WT.	21.1663	grams	
MEAN GRAIN SIZE	1.6700	phi	0.3143 mm

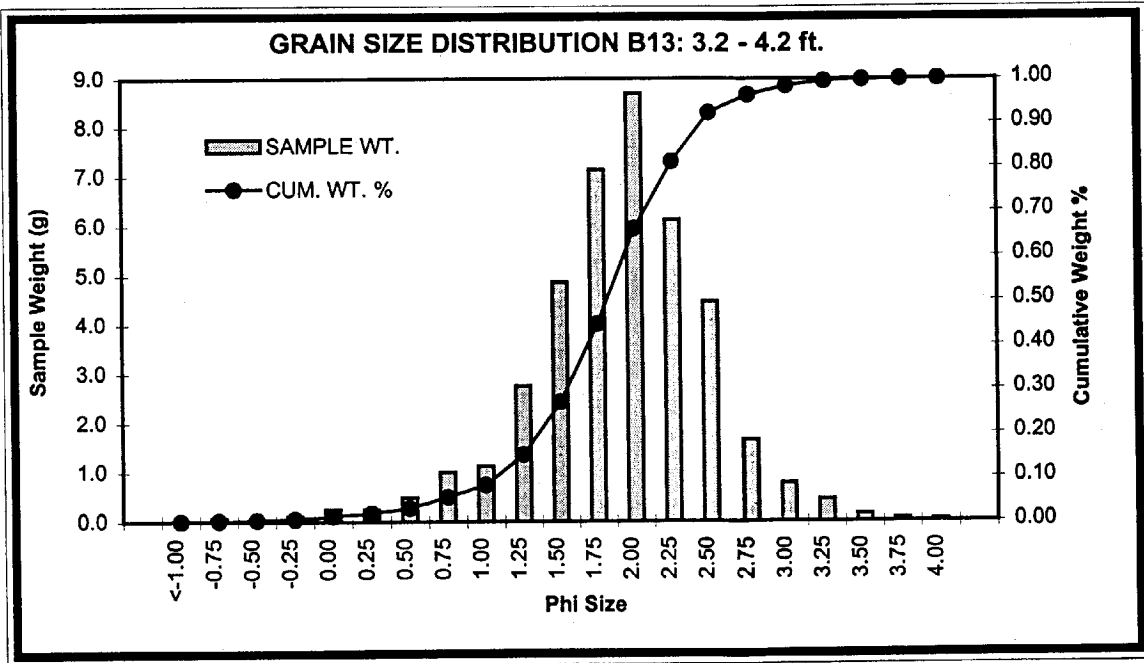


GRAIN SIZE DISTRIBUTION CHART

CORE B13: 3.2 - 4.2 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.0242	0.0242	0.000596701	0.000596701
-0.75	0.0710	0.0952	0.001750653	0.002347354
-0.50	0.0453	0.1405	0.001116966	0.003464320
-0.25	0.1086	0.2491	0.002677759	0.006142079
0.00	0.2509	0.5000	0.006186462	0.012328541
0.25	0.2508	0.7508	0.006183996	0.018512537
0.50	0.4864	1.2372	0.011993205	0.030505741
0.75	1.0079	2.2451	0.024851873	0.055357614
1.00	1.1209	3.3660	0.027638123	0.082995737
1.25	2.7559	6.1219	0.067952451	0.150948188
1.50	4.8596	10.9815	0.119823554	0.270771742
1.75	7.1472	18.1287	0.176229094	0.447000836
2.00	8.6917	26.8204	0.214311956	0.661312792
2.25	6.1293	32.9497	0.151130650	0.812443443
2.50	4.4710	37.4207	0.110241812	0.922685255
2.75	1.6737	39.0944	0.041268558	0.963953812
3.00	0.7764	39.8708	0.019143758	0.983097571
3.25	0.4468	40.3176	0.011016784	0.994114355
3.50	0.1408	40.4584	0.003471717	0.997586072
3.75	0.0623	40.5207	0.001536136	0.999122208
4.00	0.0356	40.5563	0.000877792	1

TOTAL WT.	40.5563	grams	
MEDIAN WT.	20.2782	grams	
MEAN GRAIN SIZE	1.8100	phi	0.2852 mm

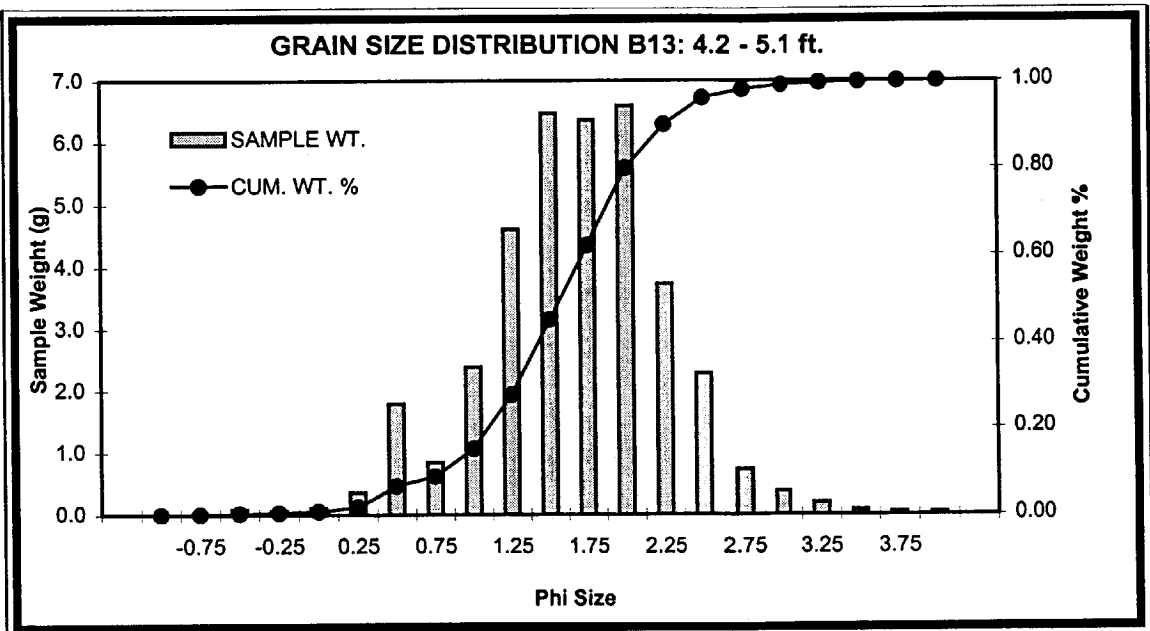


GRAIN SIZE DISTRIBUTION CHART

CORE B13: 4.2 - 5.1 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0	0	0	0
-0.75	0.0161	0.0161	0.000433110	0.000433110
-0.50	0.0812	0.0973	0.002184381	0.002617491
-0.25	0.0673	0.1646	0.001810454	0.004427945
0.00	0.1164	0.2810	0.003131305	0.007559250
0.25	0.3607	0.6417	0.009703279	0.017262529
0.50	1.7973	2.4390	0.048349609	0.065612138
0.75	0.8431	3.2821	0.022680440	0.088292578
1.00	2.3817	5.6638	0.064070696	0.152363274
1.25	4.6032	10.2670	0.123831813	0.276195088
1.50	6.4667	16.7337	0.173962284	0.450157372
1.75	6.3639	23.0976	0.171196836	0.621354209
2.00	6.5948	29.6924	0.177408334	0.798762543
2.25	3.7294	33.4218	0.100325505	0.899088048
2.50	2.2801	35.7019	0.061337530	0.960425578
2.75	0.7362	36.4381	0.019804697	0.980230275
3.00	0.3813	36.8194	0.010257445	0.990487720
3.25	0.1963	37.0157	0.005280714	0.995768434
3.50	0.0784	37.0941	0.002109058	0.997877492
3.75	0.0432	37.1373	0.001162134	0.999039626
4.00	0.0357	37.1730	0.000960374	1

TOTAL WT.	37.1730	grams	
MEDIAN WT.	18.5865	grams	
MEAN GRAIN SIZE	1.57	phi	0.3368 mm

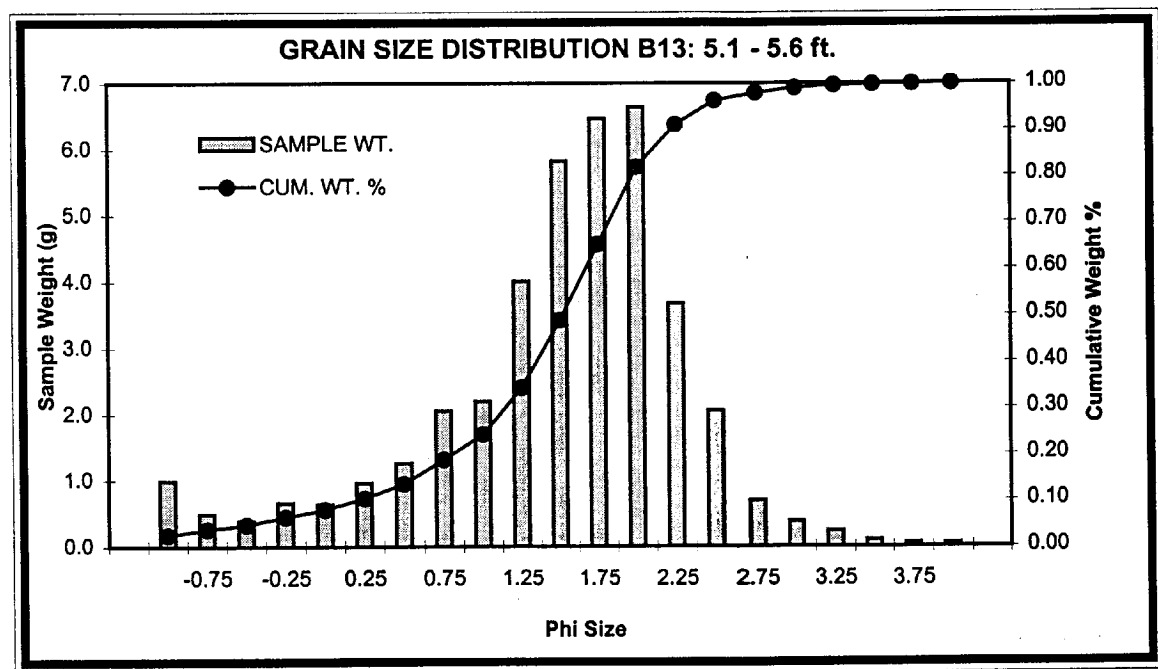


GRAIN SIZE DISTRIBUTION CHART

CORE B13: 5.1 - 5.6 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.9969	0.9969	0.025049690	0.025049690
-0.75	0.4910	1.4879	0.012337644	0.037387334
-0.50	0.3868	1.8747	0.009719350	0.047106684
-0.25	0.6574	2.5321	0.016518875	0.063625559
0.00	0.6408	3.1729	0.016101757	0.079727315
0.25	0.9565	4.1294	0.024034535	0.103761851
0.50	1.2654	5.3948	0.031796446	0.135558297
0.75	2.0548	7.4496	0.051632162	0.187190460
1.00	2.1972	9.6468	0.055210330	0.242400790
1.25	4.0030	13.6498	0.100585724	0.342986514
1.50	5.8158	19.4656	0.146137011	0.489123525
1.75	6.4571	25.9227	0.162251331	0.651374856
2.00	6.6374	32.5601	0.166781835	0.818156691
2.25	3.6682	36.2283	0.092173008	0.910329699
2.50	2.0561	38.2844	0.051664828	0.961994527
2.75	0.6911	38.9755	0.017365674	0.979360201
3.00	0.3786	39.3541	0.009513304	0.988873505
3.25	0.2391	39.5932	0.006008006	0.994881511
3.50	0.0983	39.6915	0.002470042	0.997351553
3.75	0.0563	39.7478	0.001414683	0.998766236
4.00	0.0491	39.7969	0.001233764	1

TOTAL WT.	39.7969	grams	
MEDIAN WT.	19.8985	grams	
MEAN GRAIN SIZE	1.52	phi	0.3487 mm

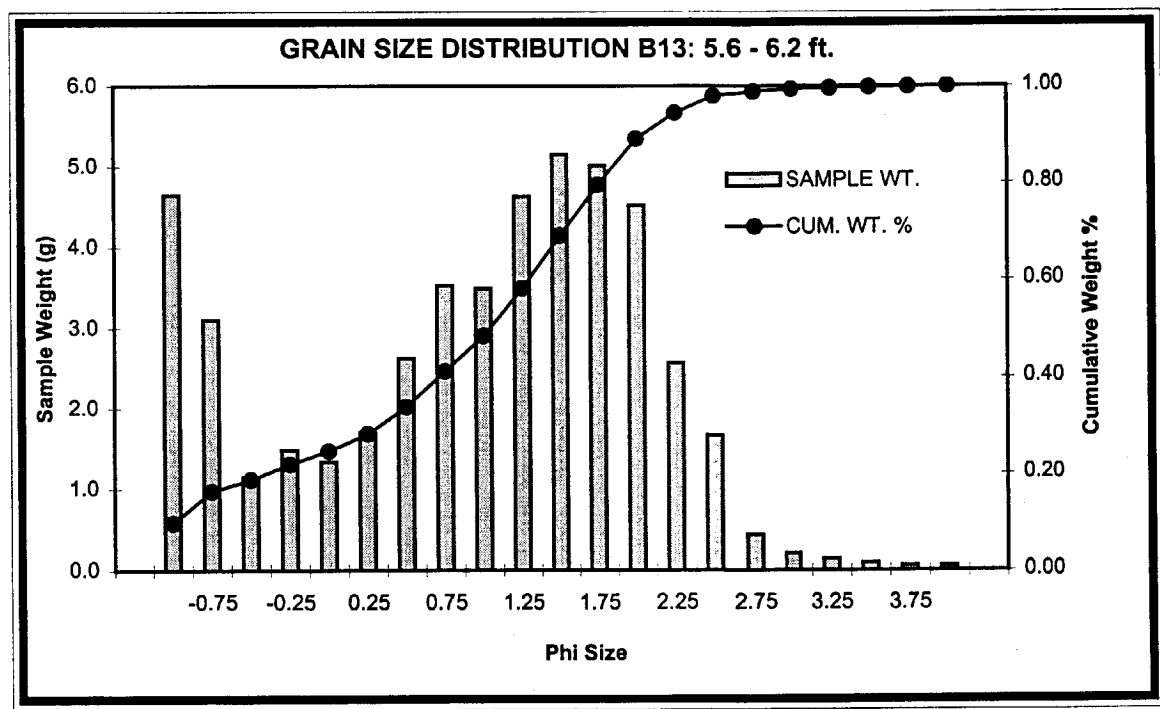


GRAIN SIZE DISTRIBUTION CHART

CORE B13: 5.6 - 6.2 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	4.6470	4.6470	0.097586278	0.097586278
-0.75	3.1014	7.7484	0.065128918	0.162715196
-0.50	1.1489	8.8973	0.024126721	0.186841917
-0.25	1.4871	10.3844	0.031228869	0.218070786
0.00	1.3431	11.7275	0.028204891	0.246275678
0.25	1.7057	13.4332	0.035819435	0.282095112
0.50	2.6239	16.0571	0.055101492	0.337196605
0.75	3.5299	19.5870	0.074127351	0.411323956
1.00	3.4887	23.0757	0.073262158	0.484586114
1.25	4.6293	27.7050	0.097214581	0.581800695
1.50	5.1514	32.8564	0.108178599	0.689979294
1.75	5.0053	37.8617	0.105110522	0.795089816
2.00	4.5123	42.3740	0.094757599	0.889847415
2.25	2.5706	44.9446	0.053982201	0.943829616
2.50	1.6725	46.6171	0.035122240	0.978951856
2.75	0.4411	47.0582	0.009263031	0.988214887
3.00	0.2062	47.2644	0.004330168	0.992545055
3.25	0.1444	47.4088	0.003032378	0.995577433
3.50	0.0939	47.5027	0.001971885	0.997549318
3.75	0.0607	47.5634	0.001274691	0.998824009
4.00	0.0560	47.6194	0.001175991	1

TOTAL WT.	47.6194	grams	
MEDIAN WT.	23.8097	grams	
MEAN GRAIN SIZE	1.04	phi	0.4863 mm

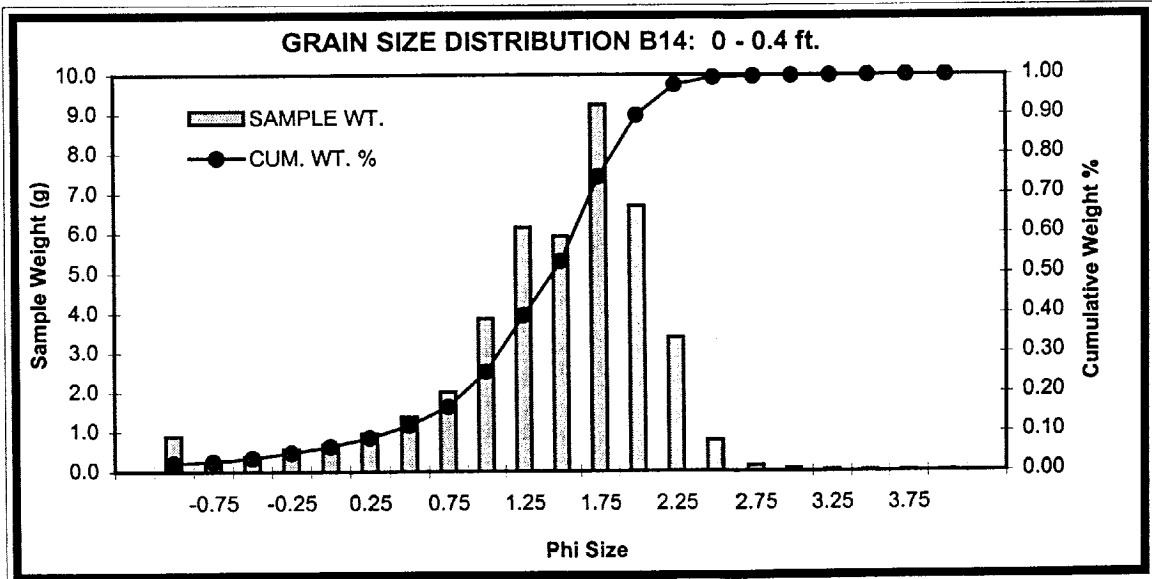


GRAIN SIZE DISTRIBUTION CHART

CORE B14: 0 - 0.4 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.8970	0.8970	0.020652024	0.020652024
-0.75	0.2000	1.0970	0.004604688	0.025256711
-0.50	0.3780	1.4750	0.008702860	0.033959571
-0.25	0.5650	2.0400	0.013008242	0.046967813
0.00	0.6900	2.7300	0.015886172	0.062853985
0.25	0.9610	3.6910	0.022125524	0.084979509
0.50	1.3850	5.0760	0.031887461	0.116866971
0.75	2.0120	7.0880	0.046323157	0.163190128
1.00	3.8650	10.9530	0.088985587	0.252175715
1.25	6.1530	17.1060	0.141663213	0.393838928
1.50	5.9210	23.0270	0.136321776	0.530160704
1.75	9.2470	32.2740	0.212897730	0.743058433
2.00	6.6930	38.9670	0.154095870	0.897154303
2.25	3.3910	42.3580	0.078072478	0.975226781
2.50	0.7820	43.1400	0.018004328	0.993231109
2.75	0.1430	43.2830	0.003292352	0.996523461
3.00	0.0630	43.3460	0.001450477	0.997973937
3.25	0.0330	43.3790	0.000759773	0.998733711
3.50	0.0230	43.4020	0.000529539	0.999263250
3.75	0.0190	43.4210	0.000437445	0.999700695
4.00	0.0130	43.4340	0.000299305	1

TOTAL WT.	43.4340	grams	
MEDIAN WT.	21.7170	grams	
MEAN GRAIN SIZE	1.4400	phi	0.3686 mm

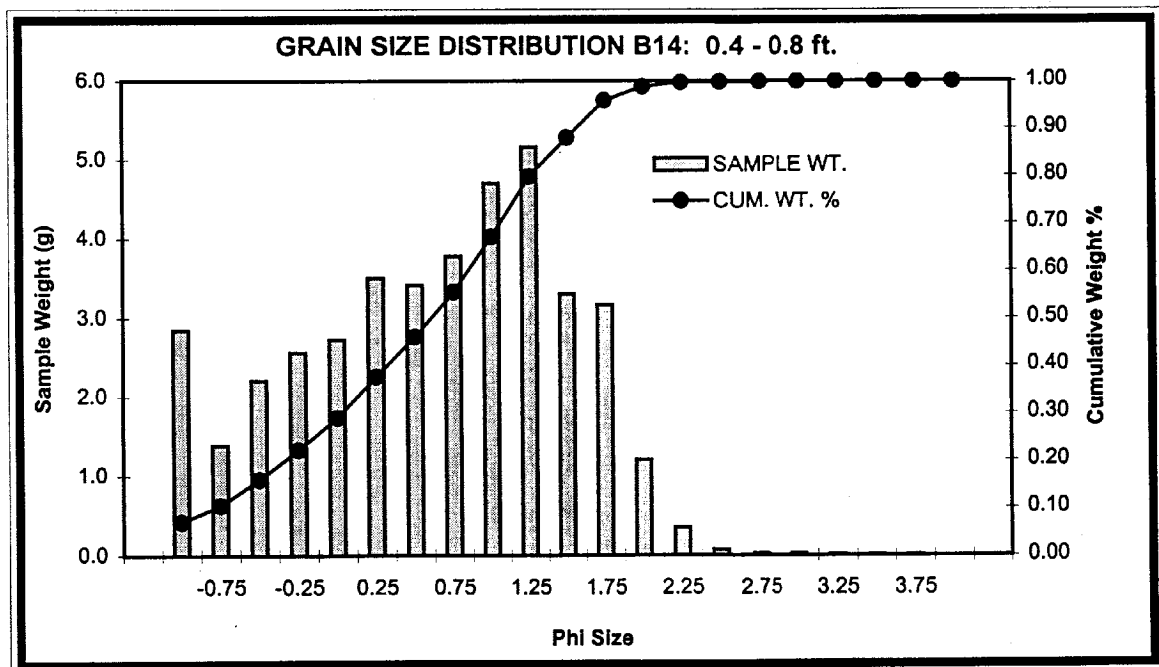


GRAIN SIZE DISTRIBUTION CHART

CORE 14: 0.4 - 0.8 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	2.8410	2.8410	0.070260913	0.070260913
-0.75	1.3880	4.2290	0.034326697	0.104587610
-0.50	2.2050	6.4340	0.054531965	0.159119575
-0.25	2.5640	8.9980	0.063410412	0.222529986
0.00	2.7250	11.7230	0.067392111	0.289922097
0.25	3.4990	15.2220	0.086533943	0.376456041
0.50	3.4120	18.6340	0.084382342	0.460838383
0.75	3.7750	22.4090	0.093359713	0.554198096
1.00	4.6990	27.1080	0.116211203	0.670409299
1.25	5.1610	32.2690	0.127636948	0.798046247
1.50	3.2980	35.5670	0.081563002	0.879609249
1.75	3.1640	38.7310	0.078249042	0.957858291
2.00	1.2030	39.9340	0.029751453	0.987609744
2.25	0.3520	40.2860	0.008705330	0.996315074
2.50	0.0740	40.3600	0.001830098	0.998145171
2.75	0.0230	40.3830	0.000568814	0.998713985
3.00	0.0200	40.4030	0.000494621	0.999208606
3.25	0.0120	40.4150	0.000296773	0.999505379
3.50	0.0100	40.4250	0.000247310	0.999752690
3.75	0.0100	40.4350	0.000247310	1
4.00	0	40.4350	0	1

TOTAL WT.	40.4350	grams	
MEDIAN WT.	20.2175	grams	
MEAN GRAIN SIZE	0.5500	phi	0.6830 mm

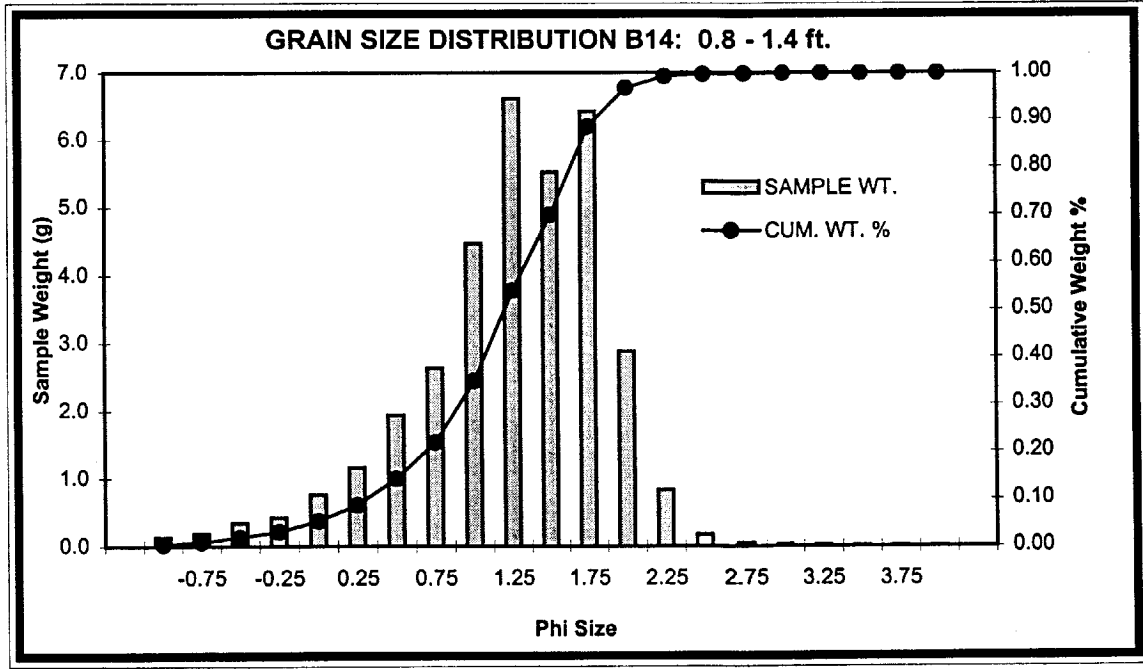


GRAIN SIZE DISTRIBUTION CHART

CORE B14: 0.8 - 1.4 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.134	0.134	0.003873056	0.003873056
-0.75	0.185	0.319	0.00534713	0.009220186
-0.50	0.344	0.663	0.009942771	0.019162957
-0.25	0.427	1.09	0.012341754	0.031504711
0.00	0.764	1.854	0.022082201	0.053586913
0.25	1.163	3.017	0.03361466	0.087201572
0.50	1.939	4.956	0.056043702	0.143245274
0.75	2.629	7.585	0.075987051	0.219232326
1.00	4.468	12.053	0.129140413	0.348372738
1.25	6.611	18.664	0.191080409	0.539453148
1.50	5.526	24.19	0.159720215	0.699173363
1.75	6.421	30.611	0.185588762	0.884762125
2.00	2.87	33.481	0.082952772	0.967714897
2.25	0.828	34.309	0.023932019	0.991646916
2.50	0.174	34.483	0.005029192	0.996676108
2.75	0.044	34.527	0.00127175	0.997947858
3.00	0.026	34.553	0.000751489	0.998699347
3.25	0.018	34.571	0.000520261	0.999219608
3.50	0.011	34.582	0.000317937	0.999537546
3.75	0.011	34.593	0.000317937	0.999855483
4.00	0.005	34.598	0.000144517	1

TOTAL WT.	34.598	grams	
MEDIAN WT.	17.299	grams	
MEAN GRAIN SIZE	1.2	phi	0.4353 mm

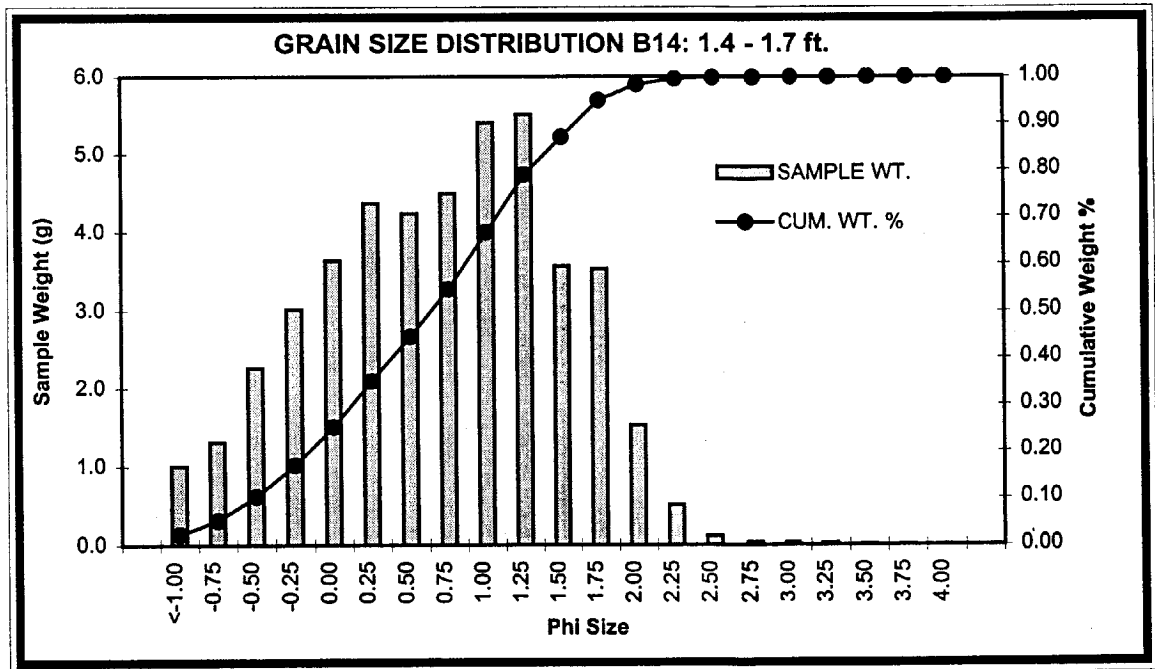


GRAIN SIZE DISTRIBUTION CHART

CORE B14: 1.4 - 1.7 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	1.0030	1.0030	0.022478205	0.022478205
-0.75	1.3130	2.3160	0.029425607	0.051903812
-0.50	2.2640	4.5800	0.050738442	0.102642254
-0.25	3.0220	7.6020	0.067725959	0.170368212
0.00	3.6380	11.2400	0.081531118	0.251899330
0.25	4.3700	15.6100	0.097935949	0.349835279
0.50	4.2420	19.8520	0.095067345	0.444902624
0.75	4.4970	24.3490	0.100782143	0.545684767
1.00	5.4030	29.7520	0.121086484	0.666771251
1.25	5.5090	35.2610	0.123462047	0.790233298
1.50	3.5660	38.8270	0.079917528	0.870150826
1.75	3.5300	42.3570	0.079110733	0.949261558
2.00	1.5340	43.8910	0.034378432	0.983639990
2.25	0.5120	44.4030	0.011474418	0.995114408
2.50	0.1160	44.5190	0.002599673	0.997714081
2.75	0.0320	44.5510	0.000717151	0.998431232
3.00	0.0300	44.5810	0.000672329	0.999103561
3.25	0.0220	44.6030	0.000493041	0.999596602
3.50	0.0080	44.6110	0.000179288	0.999775890
3.75	0.0060	44.6170	0.000134466	0.999910356
4.00	0.0040	44.6210	0.000089644	1

TOTAL WT.	44.6210	grams	
MEDIAN WT.	22.3105	grams	
MEAN GRAIN SIZE	0.6400	phi	0.6417 mm

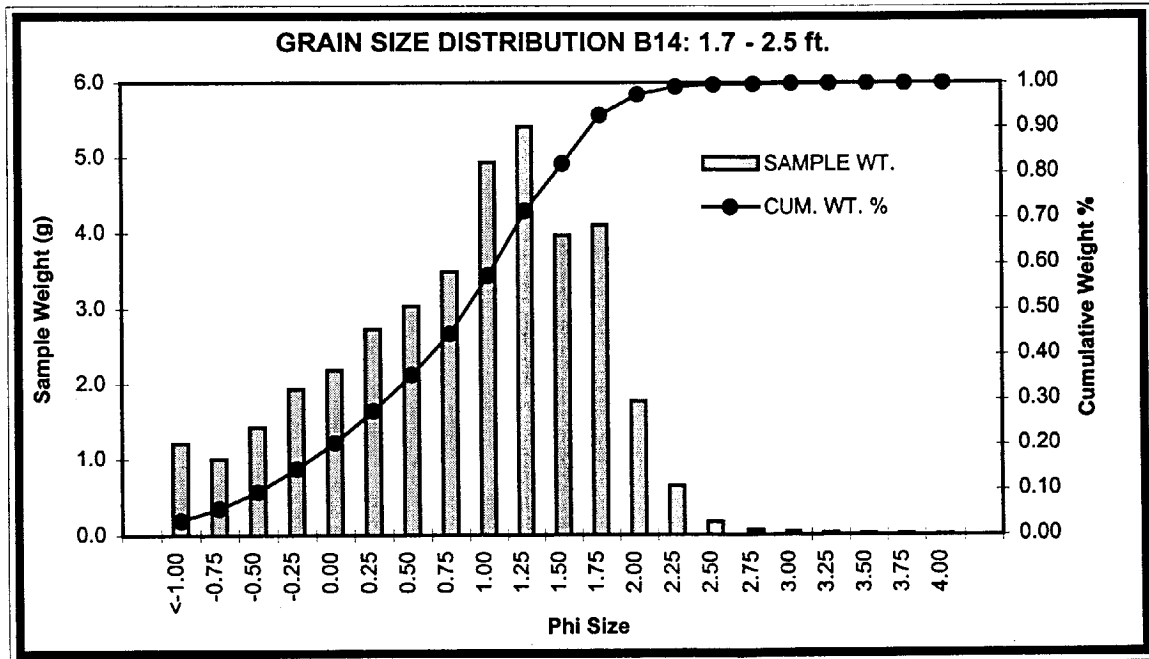


GRAIN SIZE DISTRIBUTION CHART

CORE B14: 1.7 - 2.5 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	1.2160	1.2160	0.031809977	0.031809977
-0.75	1.0000	2.2160	0.026159521	0.057969498
-0.50	1.4260	3.6420	0.037303477	0.095272975
-0.25	1.9330	5.5750	0.050566354	0.145839328
0.00	2.1880	7.7630	0.057237031	0.203076360
0.25	2.7270	10.4900	0.071337013	0.274413373
0.50	3.0360	13.5260	0.079420305	0.353833678
0.75	3.4890	17.0150	0.091270568	0.445104246
1.00	4.9350	21.9500	0.129097235	0.574201481
1.25	5.4050	27.3550	0.141392210	0.715593690
1.50	3.9700	31.3250	0.103853297	0.819446988
1.75	4.1070	35.4320	0.107437152	0.926884139
2.00	1.7720	37.2040	0.046354671	0.973238810
2.25	0.6530	37.8570	0.017082167	0.990320977
2.50	0.1790	38.0360	0.004682554	0.995003532
2.75	0.0640	38.1000	0.001674209	0.996677741
3.00	0.0420	38.1420	0.001098700	0.997776441
3.25	0.0290	38.1710	0.000758626	0.998535067
3.50	0.0200	38.1910	0.000523190	0.999058257
3.75	0.0220	38.2130	0.000575509	0.999633767
4.00	0.0140	38.2270	0.000366233	1

TOTAL WT.	38.2270	grams	
MEDIAN WT.	19.1135	grams	
MEAN GRAIN SIZE	0.8600	phi	0.5510 mm

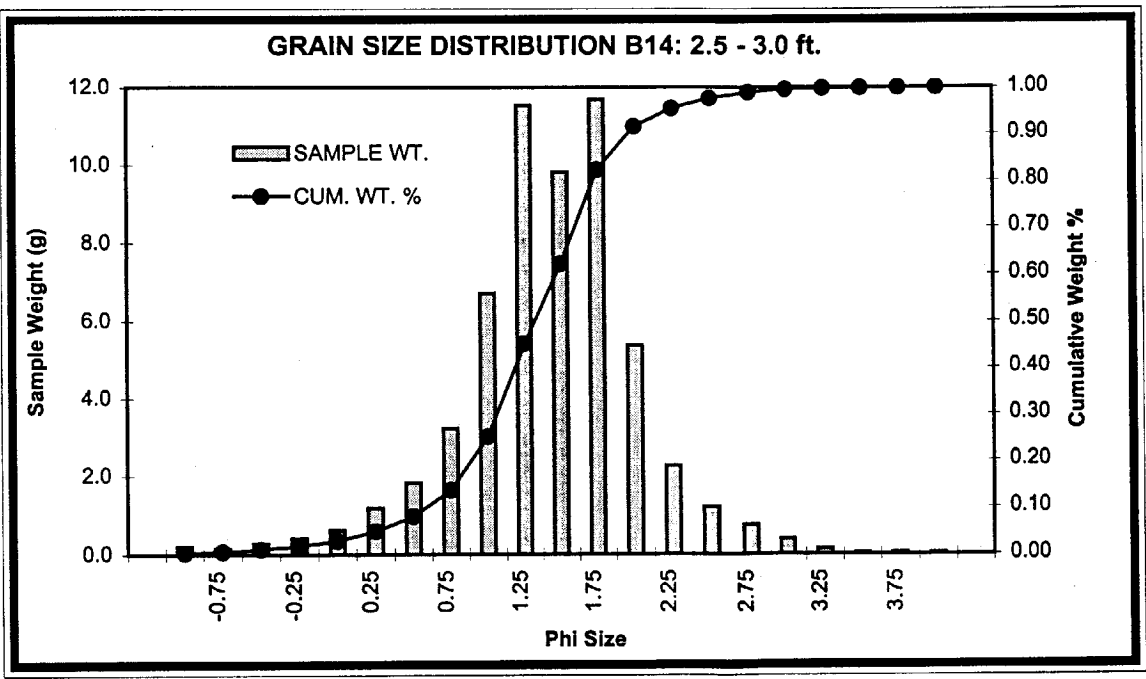


GRAIN SIZE DISTRIBUTION CHART

CORE B14: 2.5 - 3.0 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.206	0.206	0.003559949	0.003559949
-0.75	0.15	0.356	0.002592196	0.006152145
-0.50	0.269	0.625	0.004648671	0.010800816
-0.25	0.411	1.036	0.007102616	0.017903432
0.00	0.62	1.656	0.010714409	0.028617841
0.25	1.178	2.834	0.020357377	0.048975219
0.50	1.815	4.649	0.031365569	0.080340787
0.75	3.232	7.881	0.055853178	0.136193965
1.00	6.704	14.585	0.115853869	0.252047835
1.25	11.53	26.115	0.199253448	0.451301282
1.50	9.817	35.932	0.169650572	0.620951854
1.75	11.682	47.614	0.201880206	0.82283206
2.00	5.376	52.99	0.092904296	0.915736356
2.25	2.261	55.251	0.039073031	0.954809387
2.50	1.203	56.454	0.02078941	0.975598797
2.75	0.761	57.215	0.013151073	0.98874987
3.00	0.391	57.606	0.00675699	0.995506861
3.25	0.142	57.748	0.002453945	0.997960806
3.50	0.042	57.79	0.000725815	0.998686621
3.75	0.044	57.834	0.000760377	0.999446998
4.00	0.032	57.866	0.000553002	1

TOTAL WT.	57.866	grams	
MEDIAN WT.	28.933	grams	
MEAN GRAIN SIZE	1.32	phi	0.4005 mm

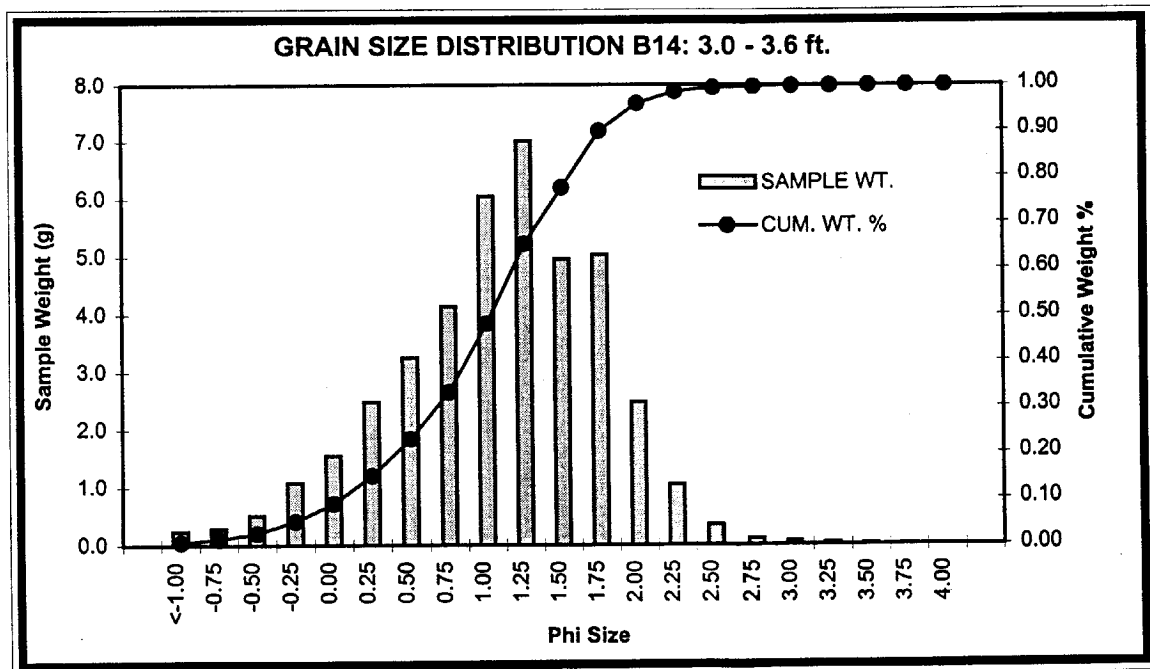


GRAIN SIZE DISTRIBUTION CHART

CORE B14: 3.0 - 3.6 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.2440	0.2440	0.005989053	0.005989053
-0.75	0.2840	0.5280	0.006970865	0.012959918
-0.50	0.5130	1.0410	0.012591738	0.025551656
-0.25	1.0760	2.1170	0.026410741	0.051962397
0.00	1.5470	3.6640	0.037971577	0.089933973
0.25	2.4930	6.1570	0.061191429	0.151125402
0.50	3.2560	9.4130	0.079919491	0.231044893
0.75	4.1420	13.5550	0.101666626	0.332711519
1.00	6.0510	19.6060	0.148523600	0.481235119
1.25	7.0190	26.6250	0.172283449	0.653518569
1.50	4.9620	31.5870	0.121793770	0.775312339
1.75	5.0340	36.6210	0.123561032	0.898873371
2.00	2.4790	39.1000	0.060847795	0.959721165
2.25	1.0390	40.1390	0.025502565	0.985223730
2.50	0.3470	40.4860	0.008517219	0.993740949
2.75	0.1120	40.5980	0.002749073	0.996490022
3.00	0.0630	40.6610	0.001546354	0.998036376
3.25	0.0370	40.6980	0.000908176	0.998944552
3.50	0.0170	40.7150	0.000417270	0.999361822
3.75	0.0180	40.7330	0.000441815	0.999803638
4.00	0.0080	40.7410	0.000196362	1

TOTAL WT.	40.7410	grams	
MEDIAN WT.	20.3705	grams	
MEAN GRAIN SIZE	1.03	phi	0.4897 mm

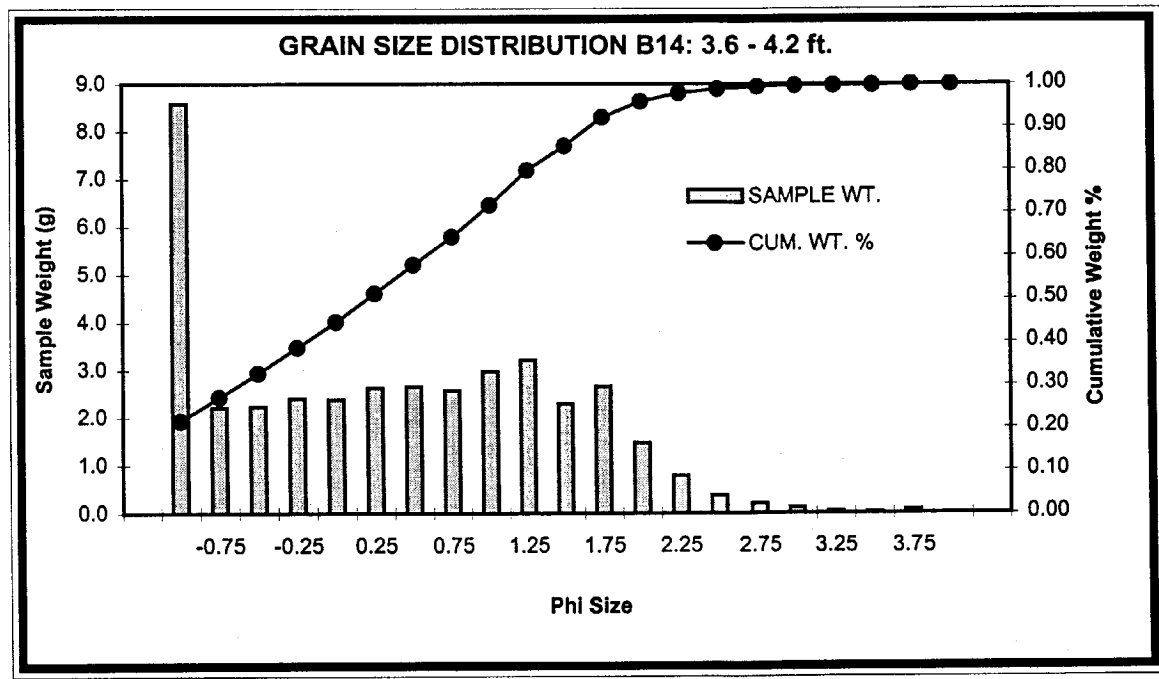


GRAIN SIZE DISTRIBUTION CHART

CORE B14: 3.6 - 4.2 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	8.5860	8.5860	0.214913269	0.214913269
-0.75	2.2190	10.8050	0.055543040	0.270456309
-0.50	2.2390	13.0440	0.056043653	0.326499962
-0.25	2.4040	15.4480	0.060173713	0.386673675
0.00	2.3850	17.8330	0.059698130	0.446371805
0.25	2.6300	20.4630	0.065830643	0.512202448
0.50	2.6550	23.1180	0.066456409	0.578658857
0.75	2.5650	25.6830	0.064203649	0.642862507
1.00	2.9740	28.6570	0.074441190	0.717303697
1.25	3.2140	31.8710	0.080448549	0.797752247
1.50	2.2940	34.1650	0.057420340	0.855172586
1.75	2.6620	36.8270	0.066631624	0.921804210
2.00	1.4820	38.3090	0.037095442	0.958899652
2.25	0.7860	39.0950	0.019674101	0.978573753
2.50	0.3790	39.4740	0.009486621	0.988060374
2.75	0.2010	39.6750	0.005031163	0.993091537
3.00	0.1180	39.7930	0.002953618	0.996045155
3.25	0.0500	39.8430	0.001251533	0.997296688
3.50	0.0180	39.8610	0.000450552	0.997747240
3.75	0.0760	39.9370	0.001902330	0.999649571
4.00	0.0140	39.9510	0.000350429	1

TOTAL WT.	39.9510	grams	
MEDIAN WT.	19.9755	grams	
MEAN GRAIN SIZE	0.1200	phi	0.9202 mm

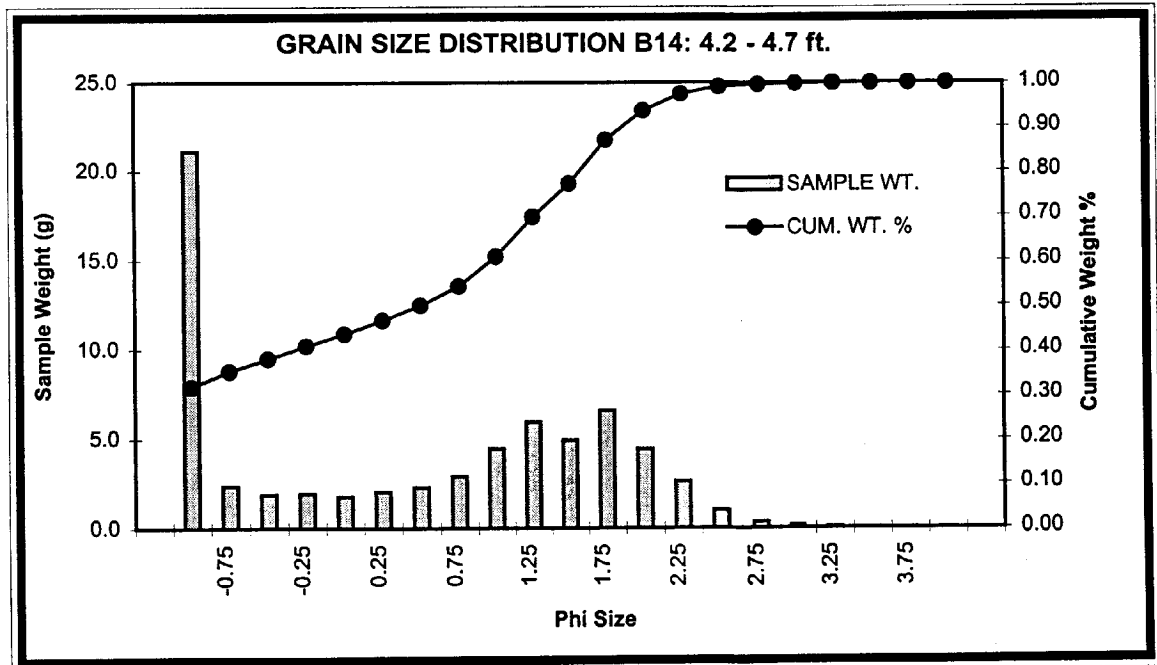


GRAIN SIZE DISTRIBUTION CHART

CORE B14: 4.2 - 4.7 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	21.1040	21.1040	0.316696179	0.316696179
-0.75	2.3500	23.4540	0.035265164	0.351961343
-0.50	1.8780	25.3320	0.028182118	0.380143462
-0.25	1.9130	27.2450	0.028707344	0.408850806
0.00	1.7740	29.0190	0.026621447	0.435472253
0.25	2.0200	31.0390	0.030313035	0.465785288
0.50	2.2450	33.2840	0.033689486	0.499474774
0.75	2.8640	36.1480	0.042978481	0.542453255
1.00	4.4120	40.5600	0.066208470	0.608661725
1.25	5.9090	46.4690	0.088673129	0.697334854
1.50	4.9210	51.3900	0.073846754	0.771181608
1.75	6.5560	57.9460	0.098382304	0.869563912
2.00	4.4410	62.3870	0.066643657	0.936207569
2.25	2.5890	64.9760	0.038851706	0.975059275
2.50	1.0160	65.9920	0.015246556	0.990305832
2.75	0.3530	66.3450	0.005297278	0.995603109
3.00	0.1570	66.5020	0.002356013	0.997959122
3.25	0.0640	66.5660	0.000960413	0.998919535
3.50	0.0280	66.5940	0.000420181	0.999339716
3.75	0.0260	66.6200	0.000390168	0.999729884
4.00	0.0180	66.6380	0.000270116	1

TOTAL WT.	66.6380	grams	
MEDIAN WT.	33.3190	grams	
MEAN GRAIN SIZE	0.5000	phi	0.7071 mm

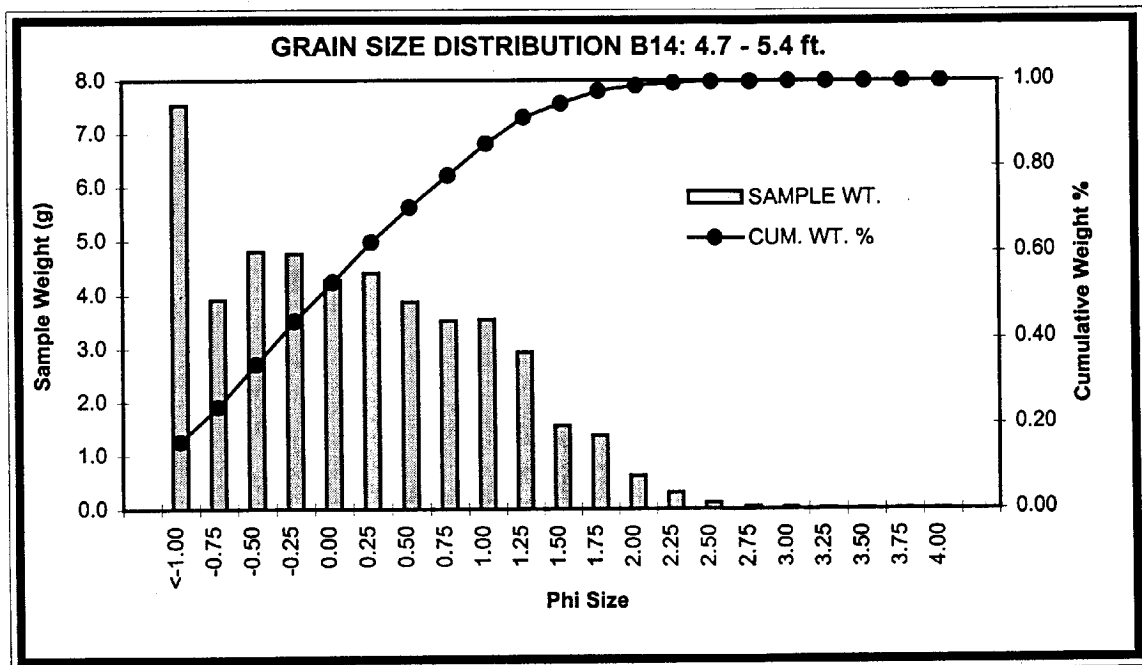


GRAIN SIZE DISTRIBUTION CHART

CORE B14: 4.7 - 5.4 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	7.5280	7.5280	0.157839561	0.157839561
-0.75	3.9140	11.4420	0.082064830	0.239904390
-0.50	4.7950	16.2370	0.100536755	0.340441146
-0.25	4.7600	20.9970	0.099802910	0.440244056
0.00	4.2720	25.2690	0.089571015	0.529815071
0.25	4.4060	29.6750	0.092380593	0.622195664
0.50	3.8750	33.5500	0.081247117	0.703442781
0.75	3.5290	37.0790	0.073992536	0.777435317
1.00	3.5450	40.6240	0.074328008	0.851763325
1.25	2.9430	43.5670	0.061705875	0.913469199
1.50	1.5600	45.1270	0.032708517	0.946177716
1.75	1.3760	46.5030	0.028850589	0.975028305
2.00	0.6210	47.1240	0.013020506	0.988048811
2.25	0.2980	47.4220	0.006248165	0.994296977
2.50	0.1190	47.5410	0.002495073	0.996792049
2.75	0.0530	47.5940	0.001111251	0.997903300
3.00	0.0340	47.6280	0.000712878	0.998616178
3.25	0.0250	47.6530	0.000524175	0.999140353
3.50	0.0130	47.6660	0.000272571	0.999412924
3.75	0.0160	47.6820	0.000335472	0.999748396
4.00	0.0120	47.6940	0.000251604	1

TOTAL WT.	47.6940	grams	
MEDIAN WT.	23.8470	grams	
MEAN GRAIN SIZE	-0.0800	phi	1.0570 mm

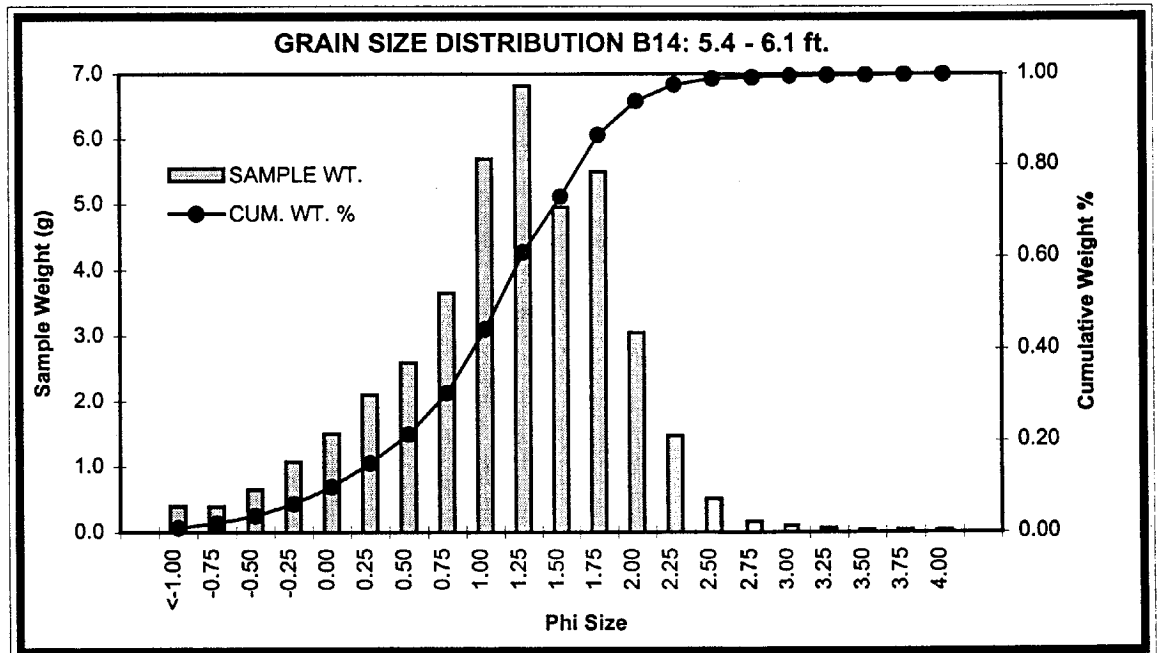


GRAIN SIZE DISTRIBUTION CHART

CORE B14: 5.4 - 6.1 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.3980	0.3980	0.009762319	0.009762319
-0.75	0.3930	0.7910	0.009639677	0.019401997
-0.50	0.6510	1.4420	0.015968015	0.035370012
-0.25	1.0690	2.5110	0.026220903	0.061590915
0.00	1.4950	4.0060	0.036670019	0.098260934
0.25	2.0940	6.1000	0.051362555	0.149623488
0.50	2.5890	8.6890	0.063504133	0.213127621
0.75	3.6530	12.3420	0.089602394	0.302730015
1.00	5.6960	18.0380	0.139713998	0.442444014
1.25	6.8210	24.8590	0.167308494	0.609752508
1.50	4.9520	29.8110	0.121464838	0.731217347
1.75	5.4950	35.3060	0.134783782	0.866001128
2.00	3.0500	38.3560	0.074811744	0.940812873
2.25	1.4710	39.8270	0.036081336	0.976894209
2.50	0.5090	40.3360	0.012484976	0.989379185
2.75	0.1620	40.4980	0.003973607	0.993352793
3.00	0.0960	40.5940	0.002354730	0.995707523
3.25	0.0630	40.6570	0.001545292	0.997252815
3.50	0.0390	40.6960	0.000956609	0.998209424
3.75	0.0410	40.7370	0.001005666	0.999215090
4.00	0.0320	40.7690	0.000784910	1

TOTAL WT.	40.7690	grams	
MEDIAN WT.	20.3845	grams	
MEAN GRAIN SIZE	1.0900	phi	0.4698 mm

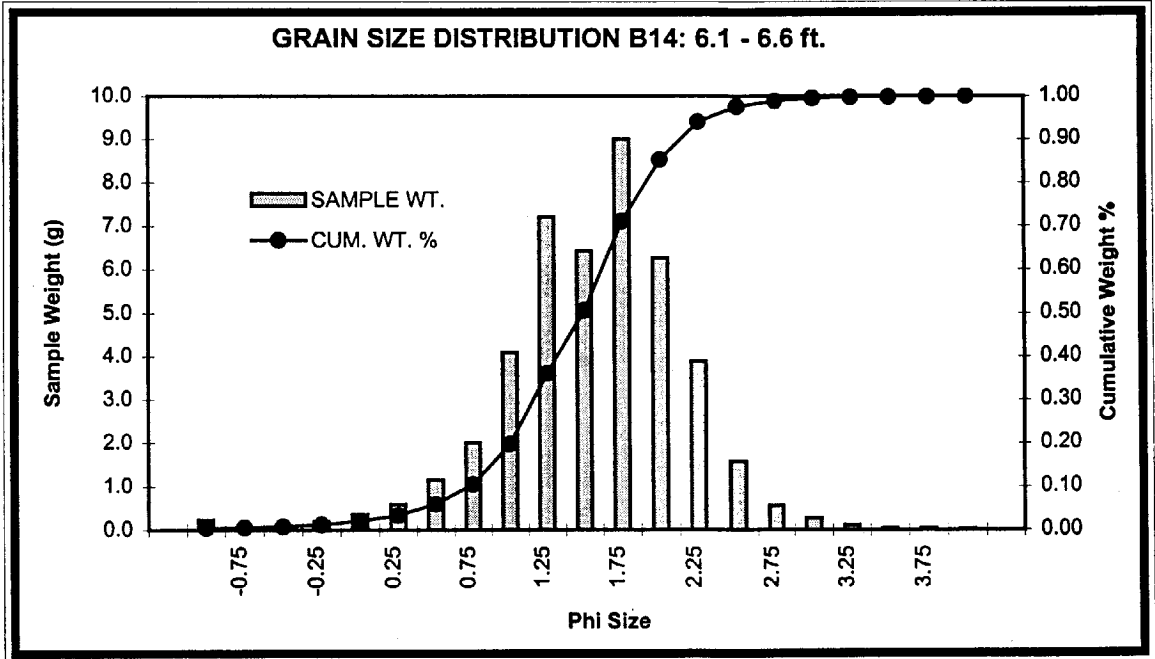


GRAIN SIZE DISTRIBUTION CHART

CORE B14: 6.1 - 6.6 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.2390	0.2390	0.005409565	0.005409565
-0.75	0.0230	0.2620	0.000520586	0.005930151
-0.50	0.0980	0.3600	0.002218148	0.008148299
-0.25	0.1920	0.5520	0.004345759	0.012494059
0.00	0.3540	0.9060	0.008012494	0.020506553
0.25	0.5890	1.4950	0.013331523	0.033838075
0.50	1.1530	2.6480	0.026097191	0.059935266
0.75	2.0120	4.6600	0.045539938	0.105475204
1.00	4.0870	8.7470	0.092505828	0.197981033
1.25	7.2160	15.9630	0.163328127	0.361309160
1.50	6.4330	22.3960	0.145605577	0.506914737
1.75	9.0030	31.3990	0.203775379	0.710690116
2.00	6.2710	37.6700	0.141938842	0.852628958
2.25	3.8840	41.5540	0.087911093	0.940540051
2.50	1.5820	43.1360	0.035807247	0.976347299
2.75	0.5630	43.6990	0.012743034	0.989090333
3.00	0.2730	43.9720	0.006179127	0.995269460
3.25	0.1140	44.0860	0.002580295	0.997849754
3.50	0.0390	44.1250	0.000882732	0.998732487
3.75	0.0340	44.1590	0.000769562	0.999502048
4.00	0.0220	44.1810	0.000497952	1

TOTAL WT.	44.1810	grams	
MEDIAN WT.	22.0905	grams	
MEAN GRAIN SIZE	1.4900	phi	0.3560 mm

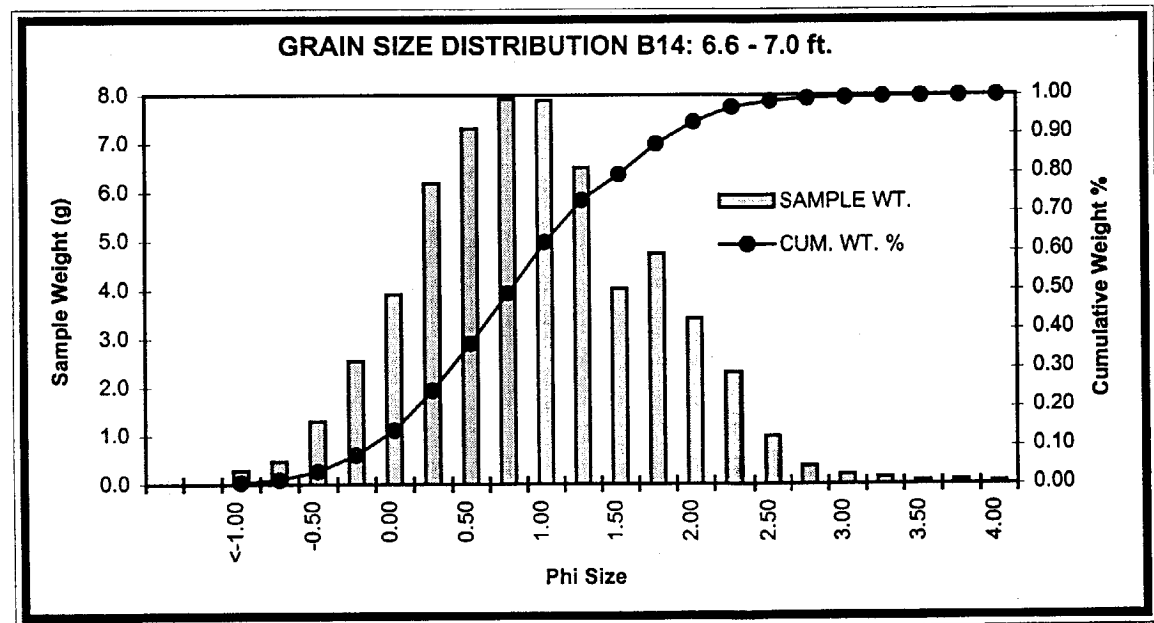


GRAIN SIZE DISTRIBUTION CHART

CORE B14: 6.6 - 7.0 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.2930	0.2930	0.004823363	0.004823363
-0.75	0.4730	0.7660	0.007786521	0.012609884
-0.50	1.3000	2.0660	0.021400586	0.034010470
-0.25	2.5420	4.6080	0.041846377	0.075856847
0.00	3.9190	8.5270	0.064514536	0.140371382
0.25	6.1830	14.7100	0.101784480	0.242155862
0.50	7.3080	22.0180	0.120304218	0.362460080
0.75	7.9170	29.9350	0.130329569	0.492789649
1.00	7.8860	37.8210	0.129819247	0.622608896
1.25	6.5030	44.3240	0.107052316	0.729661212
1.50	4.0240	48.3480	0.066243045	0.795904257
1.75	4.7460	53.0940	0.078128601	0.874032858
2.00	3.4210	56.5150	0.056316465	0.930349323
2.25	2.3130	58.8280	0.038076581	0.968425905
2.50	0.9860	59.8140	0.016231521	0.984657426
2.75	0.3710	60.1850	0.006107398	0.990764824
3.00	0.2000	60.3850	0.003292398	0.994057222
3.25	0.1470	60.5320	0.002419912	0.996477134
3.50	0.0720	60.6040	0.001185263	0.997662398
3.75	0.0850	60.6890	0.001399269	0.999061667
4.00	0.0570	60.7460	0.000938333	1

TOTAL WT.	60.7460	grams	
MEDIAN WT.	30.3730	grams	
MEAN GRAIN SIZE	0.7639	phi	0.5889 mm

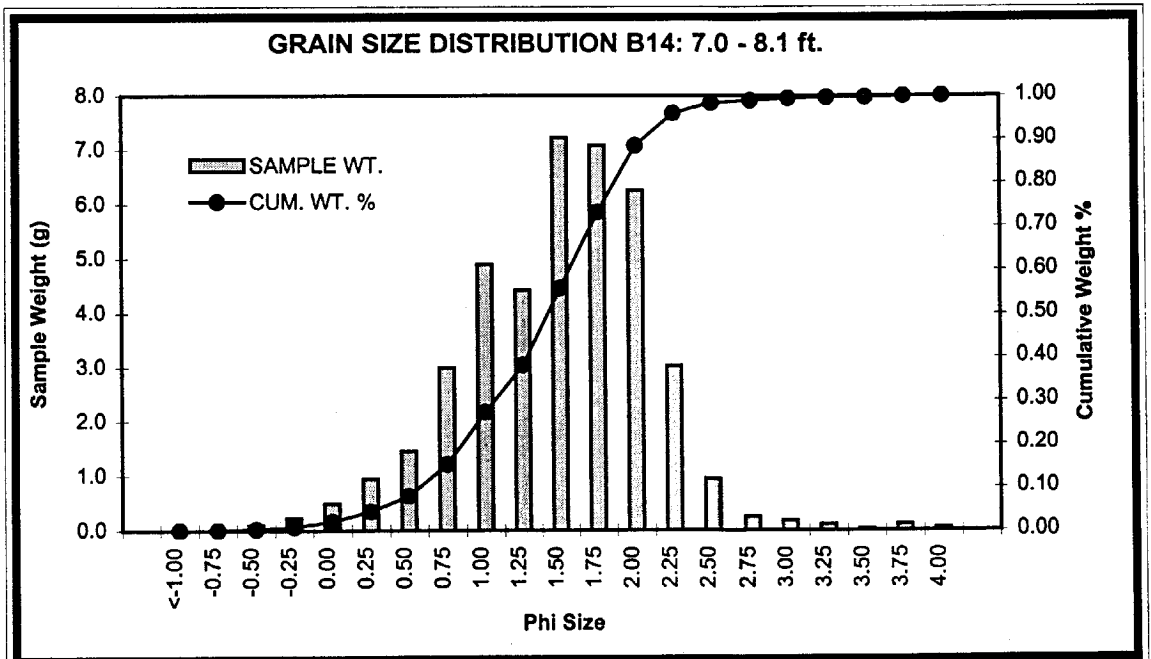


GRAIN SIZE DISTRIBUTION CHART

CORE B14: 7.0 -8.1 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0	0	0	0
-0.75	0.0190	0.0190	0.000465561	0.000465561
-0.50	0.0950	0.1140	0.002327804	0.002793365
-0.25	0.2260	0.3400	0.005537723	0.008331087
0.00	0.4940	0.8340	0.012104580	0.020435667
0.25	0.9440	1.7780	0.023131019	0.043566685
0.50	1.4660	3.2440	0.035921688	0.079488373
0.75	2.9950	6.2390	0.073387077	0.152875450
1.00	4.8950	11.1340	0.119943153	0.272818603
1.25	4.4270	15.5610	0.108475656	0.381294259
1.50	7.2230	22.7840	0.176986597	0.558280856
1.75	7.0820	29.8660	0.173531646	0.731812502
2.00	6.2560	36.1220	0.153292005	0.885104506
2.25	3.0350	39.1570	0.074367205	0.959471711
2.50	0.9500	40.1070	0.023278038	0.982749749
2.75	0.2560	40.3630	0.006272819	0.989022567
3.00	0.1750	40.5380	0.004288060	0.993310627
3.25	0.1050	40.6430	0.002572836	0.995883463
3.50	0.0230	40.6660	0.000563574	0.996447036
3.75	0.1060	40.7720	0.002597339	0.999044375
4.00	0.0390	40.8110	0.000955625	1

TOTAL WT.	40.8110	grams	
MEDIAN WT.	20.4055	grams	
MEAN GRAIN SIZE	1.4200	phi	0.3737 mm

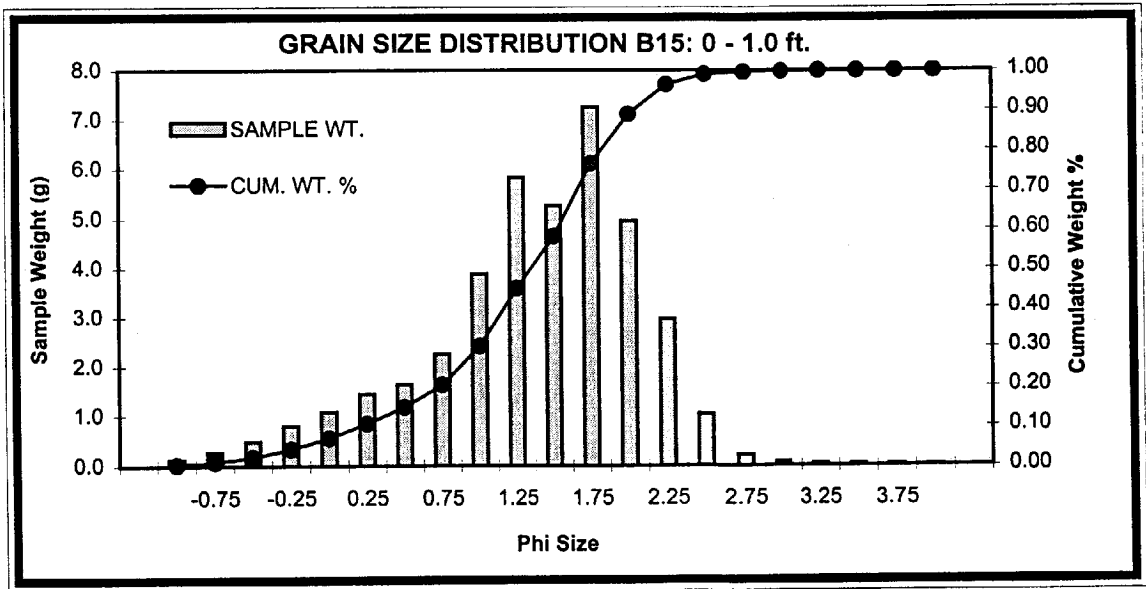


GRAIN SIZE DISTRIBUTION CHART

CORE B15: 0 - 1.0 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.1240	0.1240	0.003120439	0.003120439
-0.75	0.2710	0.3950	0.006819669	0.009940108
-0.50	0.4900	0.8850	0.012330767	0.022270874
-0.25	0.8070	1.6920	0.020308018	0.042578892
0.00	1.0870	2.7790	0.027354170	0.069933062
0.25	1.4520	4.2310	0.036539333	0.106472394
0.50	1.6440	5.8750	0.041370980	0.147843374
0.75	2.2610	8.1360	0.056897680	0.204741054
1.00	3.8840	12.0200	0.097740198	0.302481252
1.25	5.8260	17.8460	0.146610297	0.449091550
1.50	5.2600	23.1060	0.132367004	0.581458554
1.75	7.2500	30.3560	0.182445015	0.763903568
2.00	4.9530	35.3090	0.124641401	0.888544970
2.25	2.9770	38.2860	0.074915698	0.963460667
2.50	1.0440	39.3300	0.026272082	0.989732750
2.75	0.2180	39.5480	0.005485933	0.995218682
3.00	0.0750	39.6230	0.001887362	0.997106045
3.25	0.0370	39.6600	0.000931099	0.998037143
3.50	0.0270	39.6870	0.000679450	0.998716594
3.75	0.0310	39.7180	0.000780110	0.999496703
4.00	0.0200	39.7380	0.000503297	1

TOTAL WT.	39.7380	grams	
MEDIAN WT.	19.8690	grams	
MEAN GRAIN SIZE	1.3500	phi	0.3923 mm

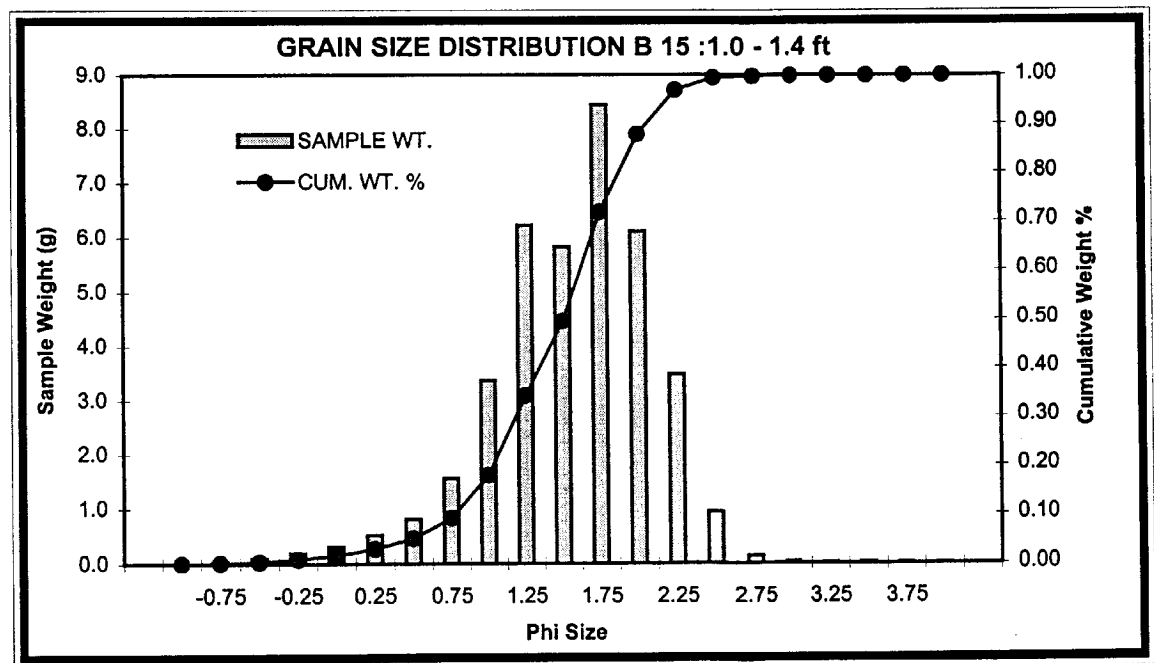


GRAIN SIZE DISTRIBUTION CHART

CORE B15: 1.0 - 1.4 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0	0	0	0
-0.75	0.0380	0.0380	0.000996538	0.000996538
-0.50	0.0960	0.1340	0.002517571	0.003514109
-0.25	0.1830	0.3170	0.004799119	0.008313228
0.00	0.3060	0.6230	0.008024756	0.016337984
0.25	0.5150	1.1380	0.013505717	0.029843701
0.50	0.8130	1.9510	0.021320676	0.051164376
0.75	1.5540	3.5050	0.040753173	0.091917550
1.00	3.3680	6.8730	0.088324767	0.180242316
1.25	6.2200	13.0930	0.163117592	0.343359908
1.50	5.8280	18.9210	0.152837512	0.496197419
1.75	8.4460	27.3670	0.221493759	0.717691178
2.00	6.1130	33.4800	0.160311549	0.878002727
2.25	3.4790	36.9590	0.091235708	0.969238435
2.50	0.9460	37.9050	0.024808560	0.994046995
2.75	0.1360	38.0410	0.003566558	0.997613553
3.00	0.0380	38.0790	0.000996538	0.998610091
3.25	0.0160	38.0950	0.000419595	0.999029686
3.50	0.0210	38.1160	0.000550719	0.999580405
3.75	0.0100	38.1260	0.000262247	0.999842652
4.00	0.0060	38.1320	0.000157348	1

TOTAL WT.	38.132	grams	
MEDIAN WT.	19.066	grams	
MEAN GRAIN SIZE	1.52	phi	0.3487 mm

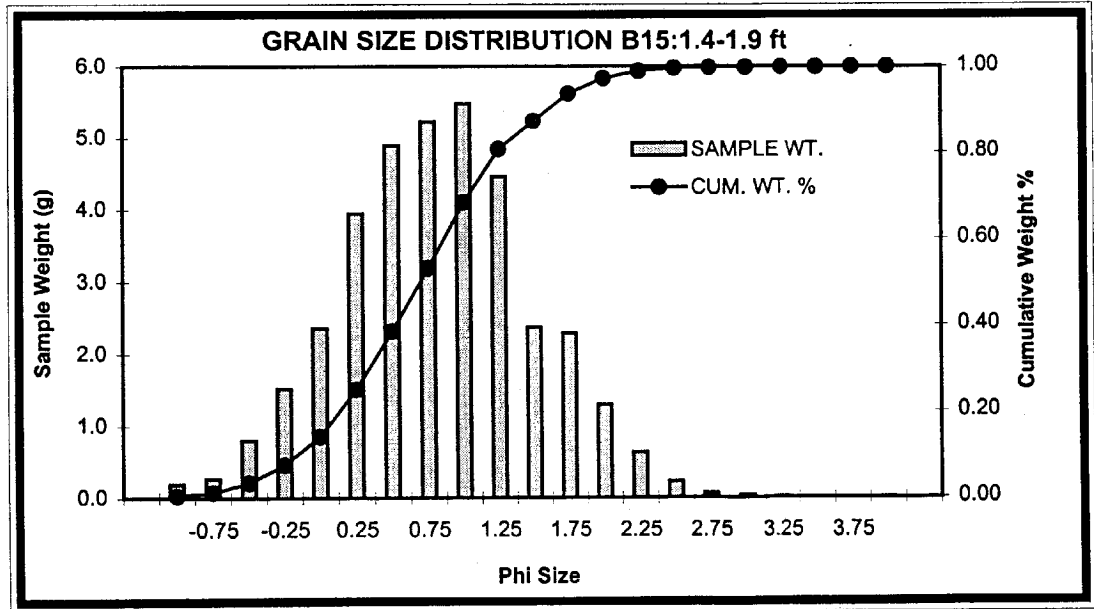


GRAIN SIZE DISTRIBUTION CHART

CORE B15: 1.4 - 1.9 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.1940	0.1940	0.005374557	0.005374557
-0.75	0.2650	0.4590	0.007341534	0.012716090
-0.50	0.7970	1.2560	0.022080009	0.034796099
-0.25	1.5190	2.7750	0.042082225	0.076878324
0.00	2.3630	5.1380	0.065464317	0.142342642
0.25	3.9480	9.0860	0.109375000	0.251717642
0.50	4.8920	13.9780	0.135527482	0.387245124
0.75	5.2280	19.2060	0.144835993	0.532081117
1.00	5.4740	24.6800	0.151651152	0.683732270
1.25	4.4620	29.1420	0.123614805	0.807347074
1.50	2.3690	31.5110	0.065630541	0.872977615
1.75	2.2920	33.8030	0.063497340	0.936474956
2.00	1.2930	35.0960	0.035821144	0.972296099
2.25	0.6350	35.7310	0.017591977	0.989888076
2.50	0.2240	35.9550	0.006205674	0.996093750
2.75	0.0630	36.0180	0.001745346	0.997839096
3.00	0.0340	36.0520	0.000941933	0.998781028
3.25	0.0170	36.0690	0.000470966	0.999251995
3.50	0.0090	36.0780	0.000249335	0.999501330
3.75	0.0100	36.0880	0.000277039	0.999778369
4.00	0.0080	36.0960	0.000221631	1

TOTAL WT. 36.096 grams
 MEDIAN WT. 18.048 grams
 MEAN GRAIN SIZE 0.69 phi 0.6199 mm

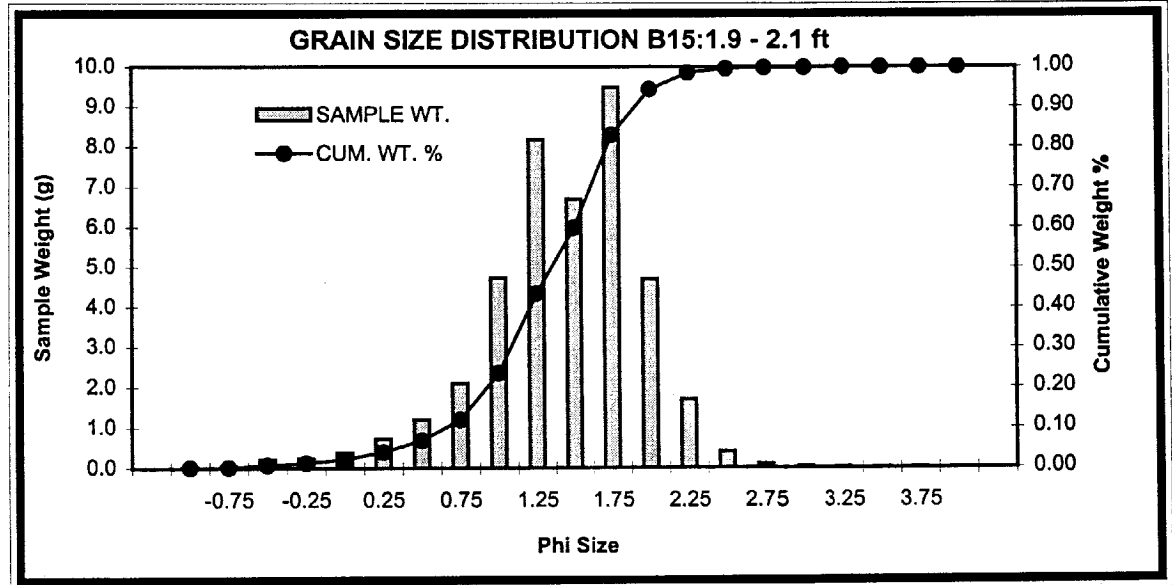


GRAIN SIZE DISTRIBUTION CHART

CORE B15: 1.9 - 2.1 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.0280	0.0280	0.000681813	0.000681813
-0.75	0.0460	0.0740	0.001120121	0.001801933
-0.50	0.2170	0.2910	0.005284048	0.007085981
-0.25	0.2350	0.5260	0.005722356	0.012808338
0.00	0.3820	0.9080	0.009301873	0.022110210
0.25	0.7200	1.6280	0.017532325	0.039642535
0.50	1.2100	2.8380	0.029464047	0.069106582
0.75	2.1050	4.9430	0.051257701	0.120364283
1.00	4.7390	9.6820	0.115396791	0.235761073
1.25	8.1730	17.8550	0.199016242	0.434777315
1.50	6.6900	24.5450	0.162904522	0.597681837
1.75	9.4790	34.0240	0.230817932	0.828499769
2.00	4.7060	38.7300	0.114593226	0.943092994
2.25	1.7090	40.4390	0.041614922	0.984707916
2.50	0.4190	40.8580	0.010202839	0.994910756
2.75	0.0950	40.9530	0.002313293	0.997224049
3.00	0.0460	40.9990	0.001120121	0.998344169
3.25	0.0270	41.0260	0.000657462	0.999001631
3.50	0.0140	41.0400	0.000340906	0.999342538
3.75	0.0150	41.0550	0.000365257	0.999707795
4.00	0.0120	41.0670	0.000292205	1

TOTAL WT.	41.067	grams	
MEDIAN WT.	20.5335	grams	
MEAN GRAIN SIZE	1.35	phi	0.3923 mm



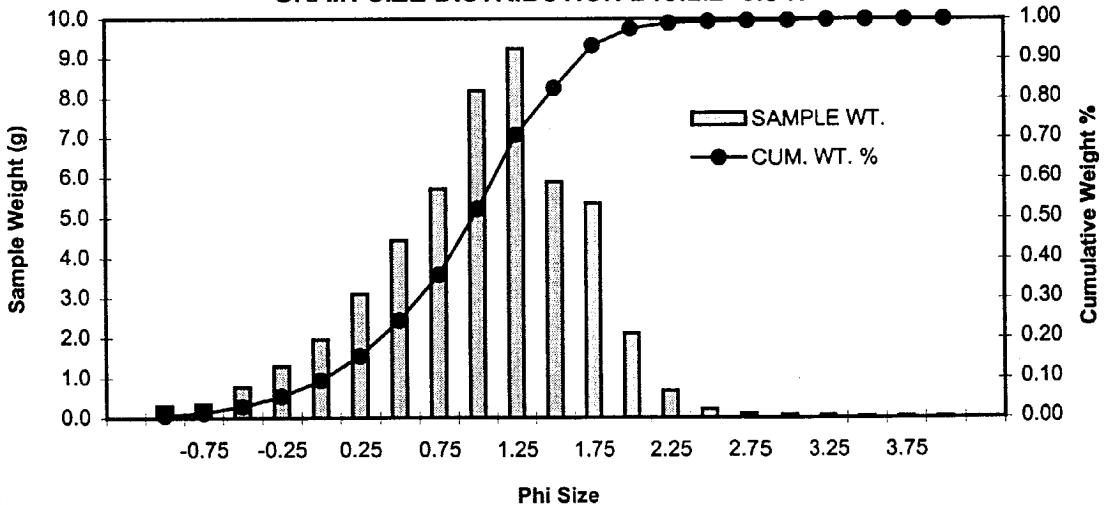
GRAIN SIZE DISTRIBUTION CHART

CORE B15: 2.2 - 3.8 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.3060	0.3060	0.006121714	0.006121714
-0.75	0.3500	0.6560	0.007001961	0.013123675
-0.50	0.7790	1.4350	0.015584364	0.028708038
-0.25	1.2940	2.7290	0.025887248	0.054595287
0.00	1.9620	4.6910	0.039250990	0.093846277
0.25	3.1040	7.7950	0.062097387	0.155943664
0.50	4.4390	12.2340	0.088804865	0.244748530
0.75	5.7270	17.9610	0.114572080	0.359320610
1.00	8.1800	26.1410	0.163645821	0.522966431
1.25	9.2450	35.3860	0.184951787	0.707918217
1.50	5.9030	41.2890	0.118093066	0.826011283
1.75	5.3700	46.6590	0.107430080	0.933441364
2.00	2.1160	48.7750	0.042331853	0.975773217
2.25	0.6730	49.4480	0.013463770	0.989236986
2.50	0.2190	49.6670	0.004381227	0.993618213
2.75	0.0950	49.7620	0.001900532	0.995518745
3.00	0.0720	49.8340	0.001440403	0.996959149
3.25	0.0600	49.8940	0.001200336	0.998159485
3.50	0.0360	49.9300	0.000720202	0.998879686
3.75	0.0330	49.9630	0.000660185	0.999539871
4.00	0.0230	49.9860	0.000460129	1

TOTAL WT.	49.986	grams	
MEDIAN WT.	24.993	grams	
MEAN GRAIN SIZE	0.96	phi	0.5141 mm

GRAIN SIZE DISTRIBUTION B15:2.2 -3.8 ft

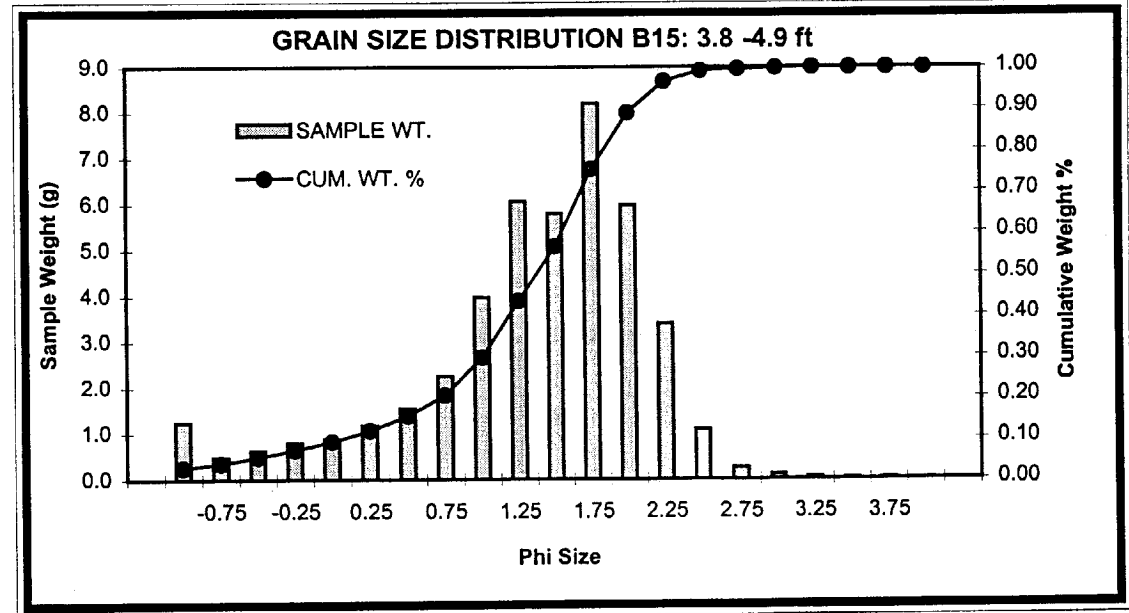


GRAIN SIZE DISTRIBUTION CHART

CORE B15: 3.8 - 4.9 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	1.2420	1.2420	0.028218935	0.028218935
-0.75	0.4870	1.7290	0.011064913	0.039283848
-0.50	0.6250	2.3540	0.014200350	0.053484198
-0.25	0.7920	3.1460	0.017994683	0.071478881
0.00	0.8930	4.0390	0.020289460	0.091768341
0.25	1.1810	5.2200	0.026832981	0.118601322
0.50	1.5580	6.7780	0.035398632	0.153999955
0.75	2.2590	9.0370	0.051325745	0.205325699
1.00	3.9840	13.0210	0.090518710	0.295844410
1.25	6.0670	19.0880	0.137845637	0.433690046
1.50	5.7990	24.8870	0.131756526	0.565446573
1.75	8.1940	33.0810	0.186172267	0.751618840
2.00	5.9800	39.0610	0.135868948	0.887487788
2.25	3.4010	42.4620	0.077272624	0.964760412
2.50	1.0910	43.5530	0.024788131	0.989548542
2.75	0.2600	43.8130	0.005907346	0.995455888
3.00	0.1070	43.9200	0.002431100	0.997886988
3.25	0.0460	43.9660	0.001045146	0.998932134
3.50	0.0190	43.9850	0.000431691	0.999363824
3.75	0.0180	44.0030	0.000408970	0.999772794
4.00	0.0100	44.0130	0.000227206	1

TOTAL WT.	44.013	grams	
MEDIAN WT.	22.0065	grams	
MEAN GRAIN SIZE	1.36	phi	0.3896 mm

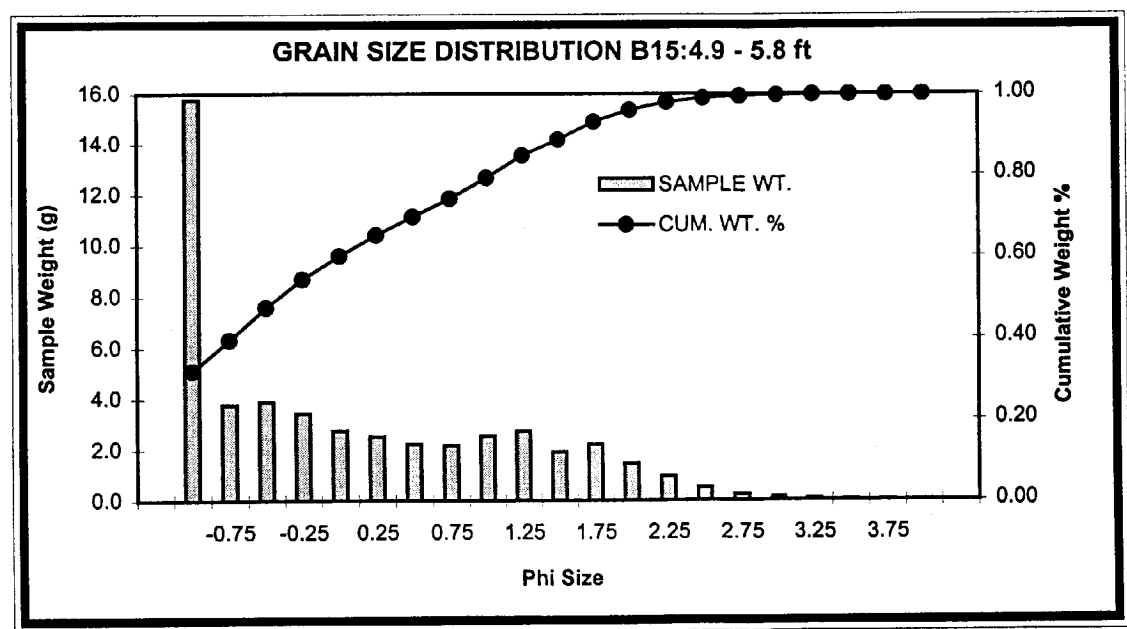


GRAIN SIZE DISTRIBUTION CHART

CORE B15: 4.9 - 5.8 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	15.7760	15.7760	0.319074490	0.319074490
-0.75	3.7740	19.5500	0.076330320	0.395404810
-0.50	3.9040	23.4540	0.078959610	0.474364420
-0.25	3.4500	26.9040	0.069777319	0.544141739
0.00	2.7740	29.6780	0.056105010	0.600246749
0.25	2.5430	32.2210	0.051432963	0.651679712
0.50	2.2380	34.4590	0.045264244	0.696943956
0.75	2.1690	36.6280	0.043868697	0.740812653
1.00	2.5350	39.1630	0.051271161	0.792083814
1.25	2.7410	41.9040	0.055437575	0.847521388
1.50	1.9080	43.8120	0.038589891	0.886111280
1.75	2.2050	46.0170	0.044596808	0.930708088
2.00	1.4540	47.4710	0.029407601	0.960115689
2.25	0.9420	48.4130	0.019052242	0.979167931
2.50	0.4980	48.9110	0.010072204	0.989240135
2.75	0.2400	49.1510	0.004854074	0.994094209
3.00	0.1350	49.2860	0.002730417	0.996824626
3.25	0.0720	49.3580	0.001456222	0.998280849
3.50	0.0340	49.3920	0.000687661	0.998968509
3.75	0.0290	49.4210	0.000586534	0.999555043
4.00	0.0220	49.4430	0.000444957	1

TOTAL WT.	49.443	grams	
MEDIAN WT.	24.7215	grams	
MEAN GRAIN SIZE	-0.41	phi	1.3287 mm

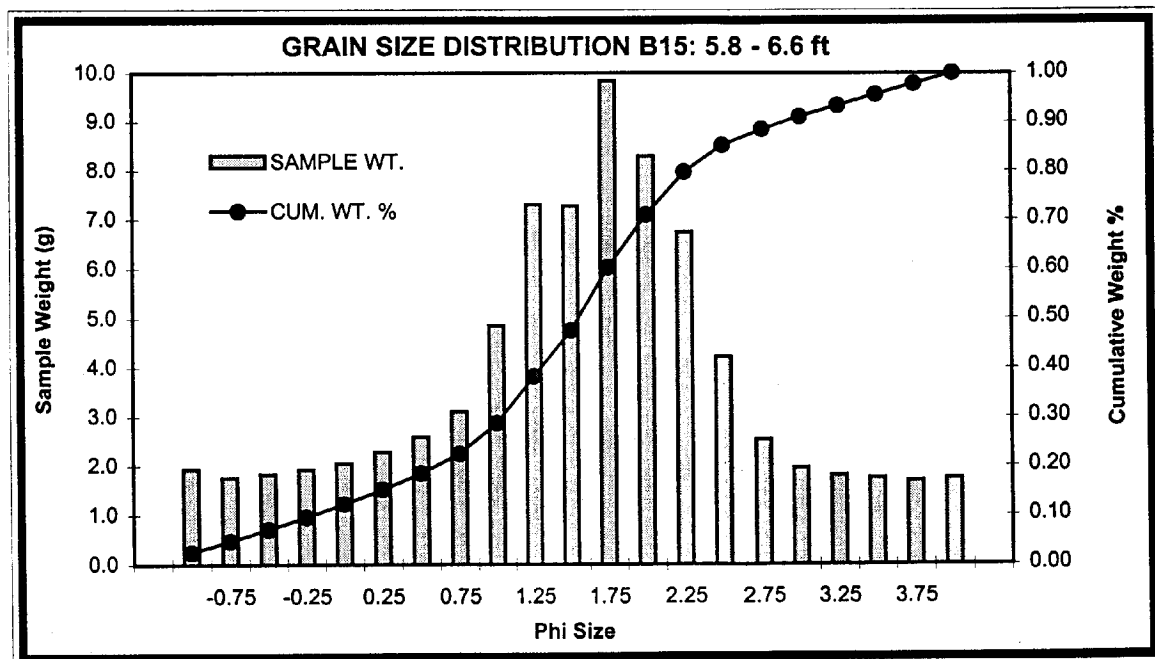


GRAIN SIZE DISTRIBUTION CHART

CORE B15: 5.8 - 6.6 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	1.9320	1.9320	0.024915530	0.024915530
-0.75	1.7640	3.6960	0.022748962	0.047664492
-0.50	1.8370	5.5330	0.023690387	0.071354879
-0.25	1.9260	7.4590	0.024838152	0.096193031
0.00	2.0530	9.5120	0.026475974	0.122669005
0.25	2.2830	11.7950	0.029442109	0.152111114
0.50	2.5910	14.3860	0.033414150	0.185525264
0.75	3.1080	17.4940	0.040081504	0.225606768
1.00	4.8580	22.3520	0.062649919	0.288256687
1.25	7.3070	29.6590	0.094232803	0.382489490
1.50	7.2820	36.9410	0.093910397	0.476399887
1.75	9.8340	46.7750	0.126821593	0.603221480
2.00	8.2950	55.0700	0.106974285	0.710195765
2.25	6.7450	61.8150	0.086985118	0.797180883
2.50	4.2230	66.0380	0.054460808	0.851641691
2.75	2.5430	68.5810	0.032795130	0.884436821
3.00	1.9620	70.5430	0.025302417	0.909739238
3.25	1.8070	72.3500	0.023303500	0.933042738
3.50	1.7500	74.1000	0.022568415	0.955611153
3.75	1.7000	75.8000	0.021923603	0.977534755
4.00	1.7420	77.5420	0.022465245	1

TOTAL WT. 77.542 grams
 MEDIAN WT. 38.771 grams
 MEAN GRAIN SIZE 1.55 phi 0.3415 mm

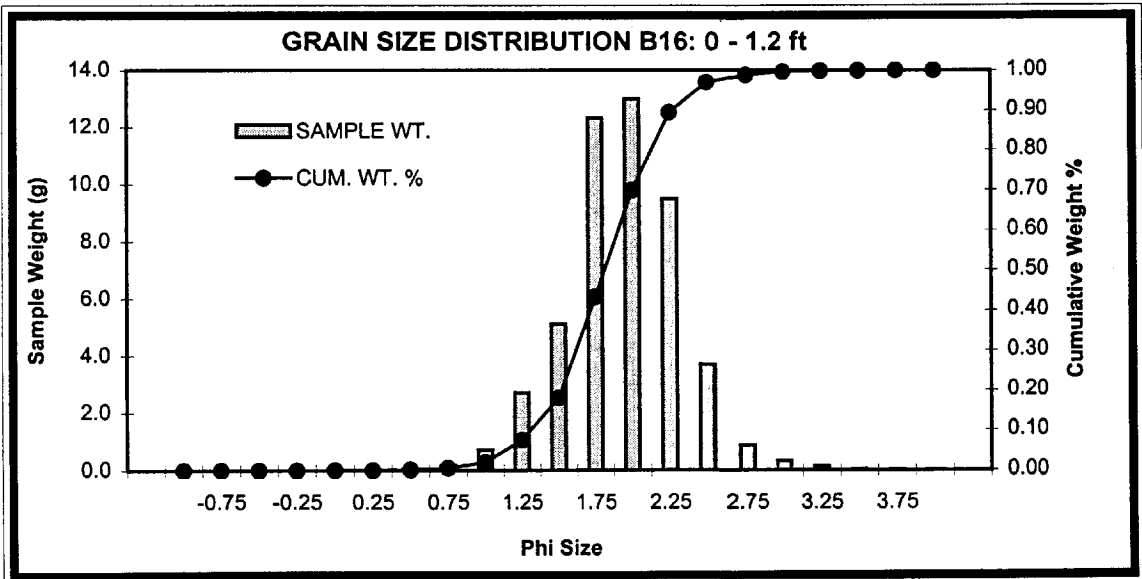


GRAIN SIZE DISTRIBUTION CHART

CORE B16: 0 - 1.2 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0	0	0	0
-0.75	0	0	0	0
-0.50	0	0	0	0
-0.25	0	0	0	0
0.00	0.0230	0.0230	0.000471205	0.000471205
0.25	0.0320	0.0550	0.000655590	0.001126795
0.50	0.0690	0.1240	0.001413616	0.002540411
0.75	0.1760	0.3000	0.003605745	0.006146156
1.00	0.7310	1.0310	0.014976132	0.021122288
1.25	2.7020	3.7330	0.055356375	0.076478663
1.50	5.1080	8.8410	0.104648542	0.181127205
1.75	12.3230	21.1640	0.252463584	0.433590789
2.00	12.9940	34.1580	0.266210485	0.699801274
2.25	9.4940	43.6520	0.194505337	0.894306611
2.50	3.7200	47.3720	0.076212329	0.970518940
2.75	0.8920	48.2640	0.018274569	0.988793510
3.00	0.3330	48.5970	0.006822233	0.995615742
3.25	0.1370	48.7340	0.002806744	0.998422487
3.50	0.0420	48.7760	0.000860462	0.999282949
3.75	0.0210	48.7970	0.000430231	0.999713179
4.00	0.0140	48.8110	0.000286821	1

TOTAL WT.	48.811	grams	
MEDIAN WT.	24.4055	grams	
MEAN GRAIN SIZE	1.81	phi	0.2852 mm

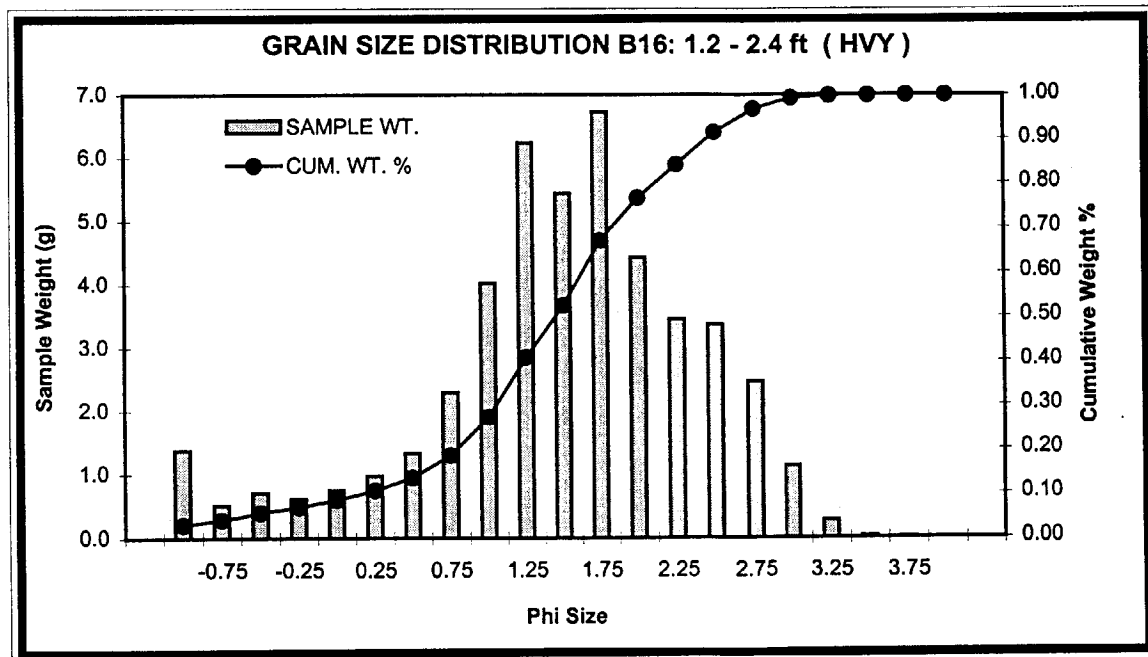


GRAIN SIZE DISTRIBUTION CHART

CORE B16: 1.2 - 2.4 ft (HVY)

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	1.3760	1.3760	0.029790643	0.029790643
-0.75	0.5140	1.8900	0.011128191	0.040918833
-0.50	0.7110	2.6010	0.015393275	0.056312109
-0.25	0.6090	3.2100	0.013184957	0.069497066
0.00	0.7500	3.9600	0.016237632	0.085734699
0.25	0.9830	4.9430	0.021282123	0.107016822
0.50	1.3330	6.2760	0.028859685	0.135876507
0.75	2.2910	8.5670	0.049600554	0.185477062
1.00	4.0250	12.5920	0.087141960	0.272619022
1.25	6.2330	18.8250	0.134945550	0.407564572
1.50	5.4330	24.2580	0.117625409	0.525189980
1.75	6.7310	30.9890	0.145727338	0.670917318
2.00	4.4310	35.4200	0.095931932	0.766849250
2.25	3.4590	38.8790	0.074887960	0.841737210
2.50	3.3710	42.2500	0.072982745	0.914719955
2.75	2.4700	44.7200	0.053475936	0.968195891
3.00	1.1330	45.8530	0.024529650	0.992725541
3.25	0.2790	46.1320	0.006040399	0.998765940
3.50	0.0330	46.1650	0.000714456	0.999480396
3.75	0.0130	46.1780	0.000281452	0.999761848
4.00	0.0110	46.1890	0.000238152	1

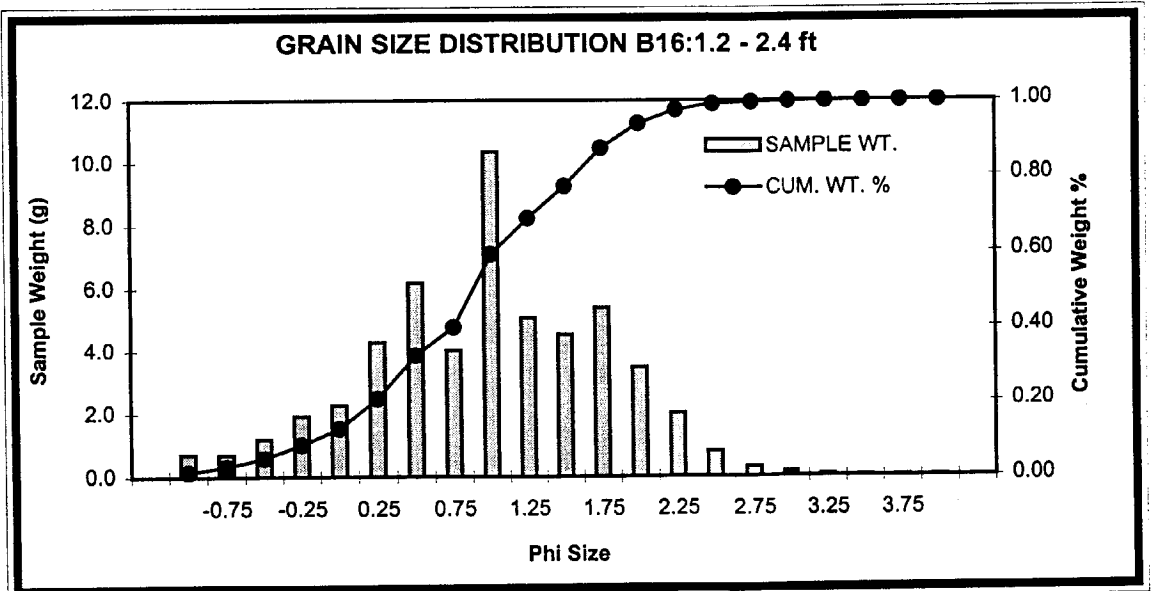
TOTAL WT.	46.189	grams	
MEDIAN WT.	23.0945	grams	
MEAN GRAIN SIZE	1.45	phi	0.3660 mm



GRAIN SIZE DISTRIBUTION CHART

CORE B16: 1.2 - 2.4 ft (LHT)

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.7090	0.7090	0.013238479	0.013238479
-0.75	0.7000	1.4090	0.013070431	0.026308910
-0.50	1.1890	2.5980	0.022201061	0.048509971
-0.25	1.9340	4.5320	0.036111734	0.084621704
0.00	2.2750	6.8070	0.042478901	0.127100605
0.25	4.2930	11.1000	0.080159086	0.207259691
0.50	6.1970	17.2970	0.115710658	0.322970349
0.75	4.0330	21.3300	0.075304354	0.398274703
1.00	10.3520	31.6820	0.193293002	0.591567705
1.25	5.0700	36.7520	0.094667264	0.686234969
1.50	4.5440	41.2960	0.084845769	0.771080738
1.75	5.4020	46.6980	0.100866383	0.871947121
2.00	3.4920	50.1900	0.065202778	0.937149899
2.25	2.0080	52.1980	0.037493465	0.974643364
2.50	0.7980	52.9960	0.014900291	0.989543655
2.75	0.2950	53.2910	0.005508253	0.995051908
3.00	0.1440	53.4350	0.002688774	0.997740683
3.25	0.0580	53.4930	0.001082979	0.998823661
3.50	0.0260	53.5190	0.000485473	0.999309134
3.75	0.0210	53.5400	0.000392113	0.999701247
4.00	0.0160	53.5560	0.000298753	1
TOTAL WT.		53.556	grams	
MEDIAN WT.		26.778	grams	
MEAN GRAIN SIZE		0.88	phi	0.5434 mm

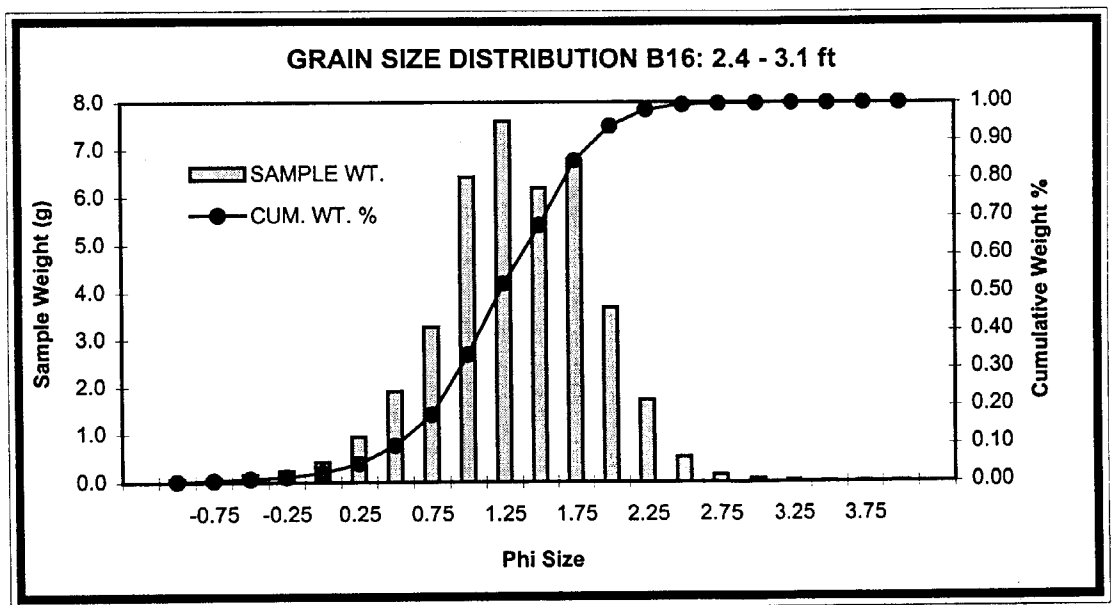


GRAIN SIZE DISTRIBUTION CHART

CORE B16: 2.4 - 3.1 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.0750	0.0750	0.001857079	0.001857079
-0.75	0.0890	0.1640	0.002203734	0.004060813
-0.50	0.1650	0.3290	0.004085574	0.008146387
-0.25	0.2380	0.5670	0.005893131	0.014039519
0.00	0.4210	0.9880	0.010424404	0.024463923
0.25	0.9550	1.9430	0.023646808	0.048110731
0.50	1.9140	3.8570	0.047392661	0.095503392
0.75	3.2790	7.1360	0.081191502	0.176694894
1.00	6.4260	13.5620	0.159114545	0.335809439
1.25	7.6030	21.1650	0.188258307	0.524067746
1.50	6.2000	27.3650	0.153518546	0.677586292
1.75	6.7900	34.1550	0.168127569	0.845713861
2.00	3.6940	37.8490	0.091467340	0.937181201
2.25	1.7370	39.5860	0.043009954	0.980191155
2.50	0.5190	40.1050	0.012850988	0.993042143
2.75	0.1440	40.2490	0.003565592	0.996607735
3.00	0.0640	40.3130	0.001584708	0.998192443
3.25	0.0320	40.3450	0.000792354	0.998984797
3.50	0.0140	40.3590	0.000346655	0.999331451
3.75	0.0150	40.3740	0.000371416	0.999702867
4.00	0.0120	40.3860	0.000297133	1

TOTAL WT.	40.386	grams	
MEDIAN WT.	20.193	grams	
MEAN GRAIN SIZE	1.22	phi	0.4293 mm

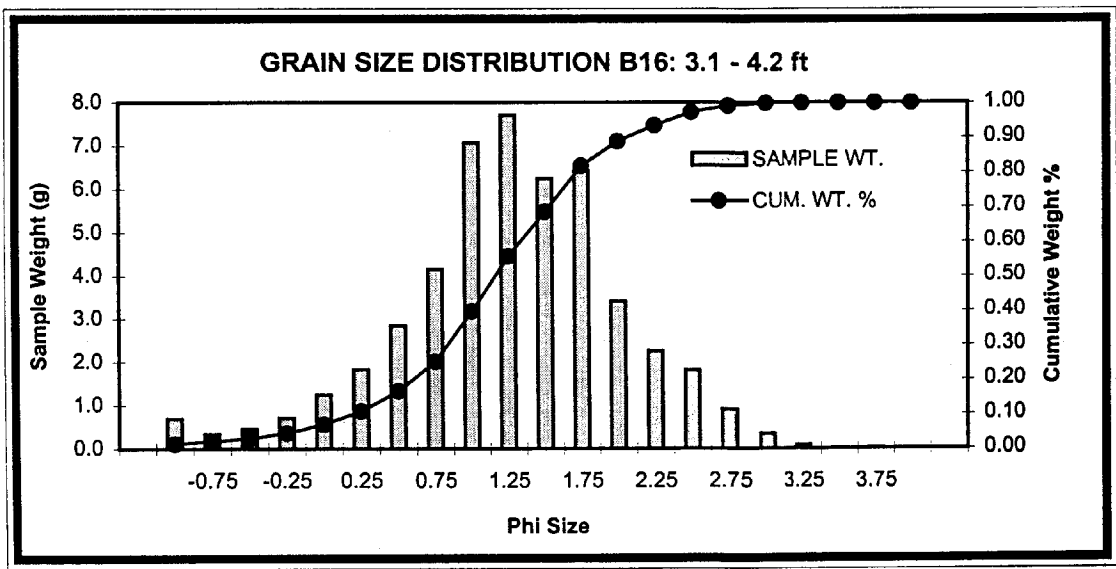


GRAIN SIZE DISTRIBUTION CHART

CORE B16: 3.1 - 4.2 ft (LHT)

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.6810	0.6810	0.014023310	0.014023310
-0.75	0.3230	1.0040	0.006651291	0.020674602
-0.50	0.4520	1.4560	0.009307689	0.029982291
-0.25	0.7150	2.1710	0.014723446	0.044705737
0.00	1.2530	3.4240	0.025802067	0.070507804
0.25	1.8330	5.2570	0.037745562	0.108253367
0.50	2.8520	8.1090	0.058729047	0.166982414
0.75	4.1490	12.2580	0.085437173	0.252419587
1.00	7.0620	19.3200	0.145422347	0.397841934
1.25	7.7140	27.0340	0.158848482	0.556690416
1.50	6.2440	33.2780	0.128577900	0.685268317
1.75	6.4190	39.6970	0.132181541	0.817449858
2.00	3.4170	43.1140	0.070363659	0.887813517
2.25	2.2640	45.3780	0.046620815	0.934434331
2.50	1.8140	47.1920	0.037354310	0.971788641
2.75	0.9090	48.1010	0.018718339	0.990506981
3.00	0.3500	48.4510	0.007207281	0.997714262
3.25	0.0800	48.5310	0.001647379	0.999361641
3.50	0.0110	48.5420	0.000226515	0.999588155
3.75	0.0140	48.5560	0.000288291	0.999876447
4.00	0.0060	48.5620	0.000123553	1

TOTAL WT. 48.562 grams
MEDIAN WT. 24.281 grams
MEAN GRAIN SIZE 1.16 phi 0.4475 mm

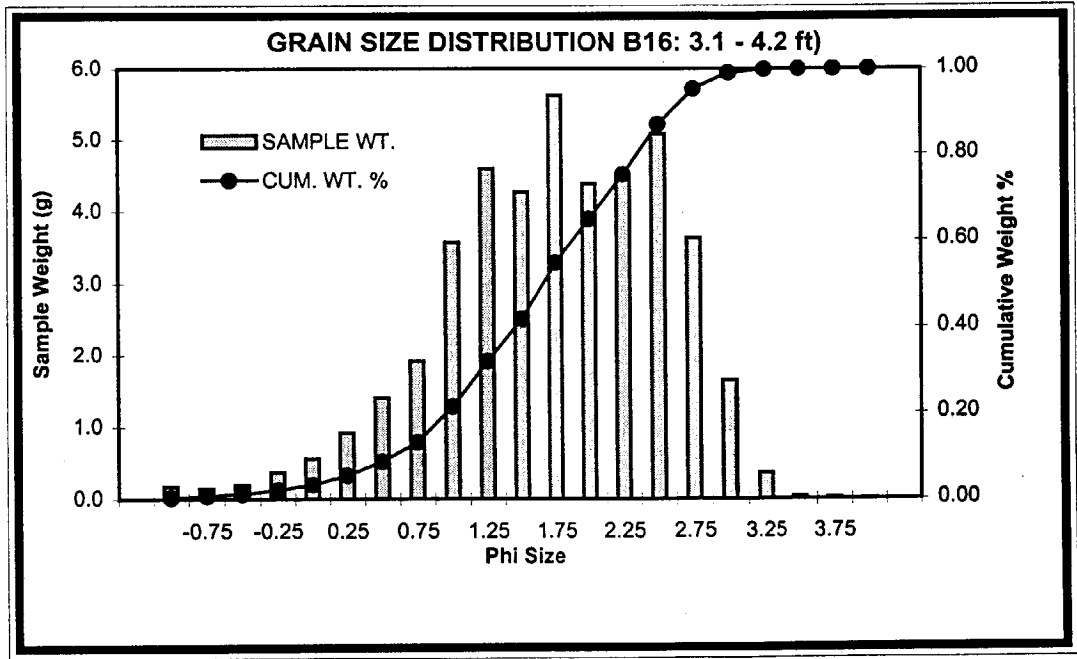


GRAIN SIZE DISTRIBUTION CHART

CORE B16: 3.1 - 4.2 ft (HVY)

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.1740	0.1740	0.004010603	0.004010603
-0.75	0.1480	0.3220	0.003411317	0.007421920
-0.50	0.1990	0.5210	0.004586839	0.012008759
-0.25	0.3720	0.8930	0.008574392	0.020583151
0.00	0.5630	1.4560	0.012976835	0.033559986
0.25	0.9250	2.3810	0.021320733	0.054880719
0.50	1.4090	3.7900	0.032476662	0.087357382
0.75	1.9210	5.7110	0.044277976	0.131635358
1.00	3.5710	9.2820	0.082309554	0.213944912
1.25	4.5890	13.8710	0.105773885	0.319718797
1.50	4.2670	18.1380	0.098351965	0.418070762
1.75	5.6300	23.7680	0.129768353	0.547839115
2.00	4.3840	28.1520	0.101048750	0.648887864
2.25	4.4540	32.6060	0.102662210	0.751550075
2.50	5.0740	37.6800	0.116952864	0.868502939
2.75	3.6290	41.3090	0.083646422	0.952149360
3.00	1.6490	42.9580	0.038008528	0.990157889
3.25	0.3690	43.3270	0.008505244	0.998663132
3.50	0.0350	43.3620	0.000806730	0.999469863
3.75	0.0160	43.3780	0.000368791	0.999838654
4.00	0.0070	43.3850	0.000161346	1

TOTAL WT.	43.385	grams	
MEDIAN WT.	21.6925	grams	
MEAN GRAIN SIZE	1.66	phi	0.3164 mm

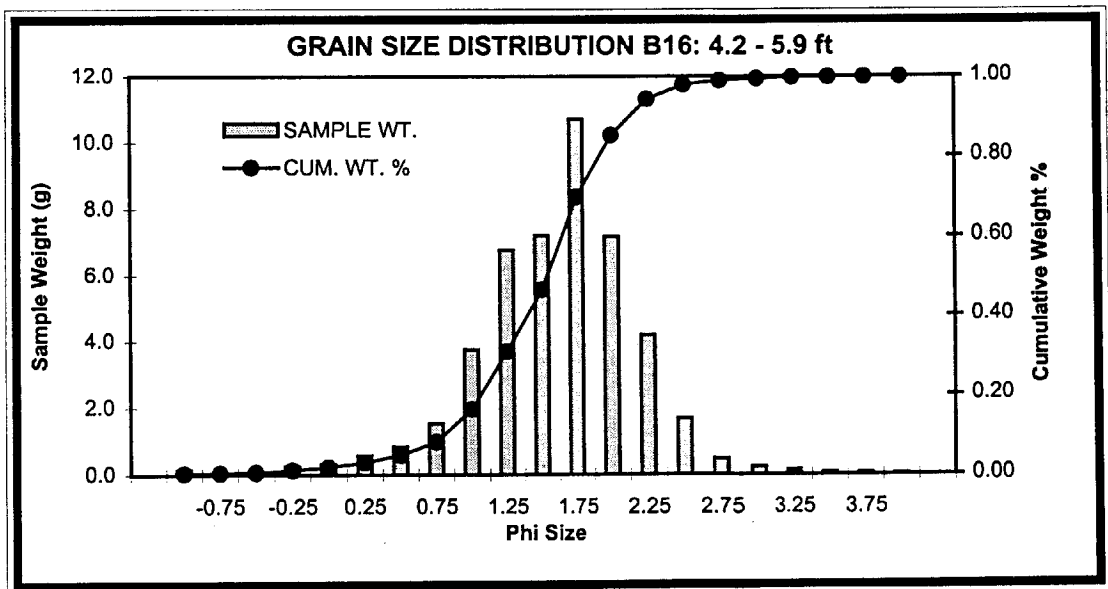


GRAIN SIZE DISTRIBUTION CHART

CORE B16: 4.2 - 5.9 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.1430		0.003092226	0.003092226
-0.75	0.0400	0.1830	0.000864958	0.003957185
-0.50	0.0940	0.2770	0.002032652	0.005989837
-0.25	0.2530	0.5300	0.005470862	0.011460698
0.00	0.3170	0.8470	0.006854795	0.018315494
0.25	0.5690	1.4160	0.012304033	0.030619526
0.50	0.8320	2.2480	0.017991134	0.048610661
0.75	1.5210	3.7690	0.032890042	0.081500703
1.00	3.7660	7.5350	0.081435831	0.162936534
1.25	6.7670	14.3020	0.146329333	0.309265867
1.50	7.1940	21.4960	0.155562764	0.464828630
1.75	10.7160	32.2120	0.231722348	0.696550978
2.00	7.1750	39.3870	0.155151908	0.851702887
2.25	4.2090	43.5960	0.091015245	0.942718132
2.50	1.6890	45.2850	0.036522867	0.979240999
2.75	0.4820	45.7670	0.010422748	0.989663747
3.00	0.2200	45.9870	0.004757271	0.994421018
3.25	0.1330	46.1200	0.002875987	0.997297005
3.50	0.0560	46.1760	0.001210942	0.998507947
3.75	0.0440	46.2200	0.000951454	0.999459401
4.00	0.0250	46.2450	0.000540599	1

TOTAL WT.	46.245	grams	
MEDIAN WT.	23.1225	grams	
MEAN GRAIN SIZE	1.54	phi	0.3439 mm

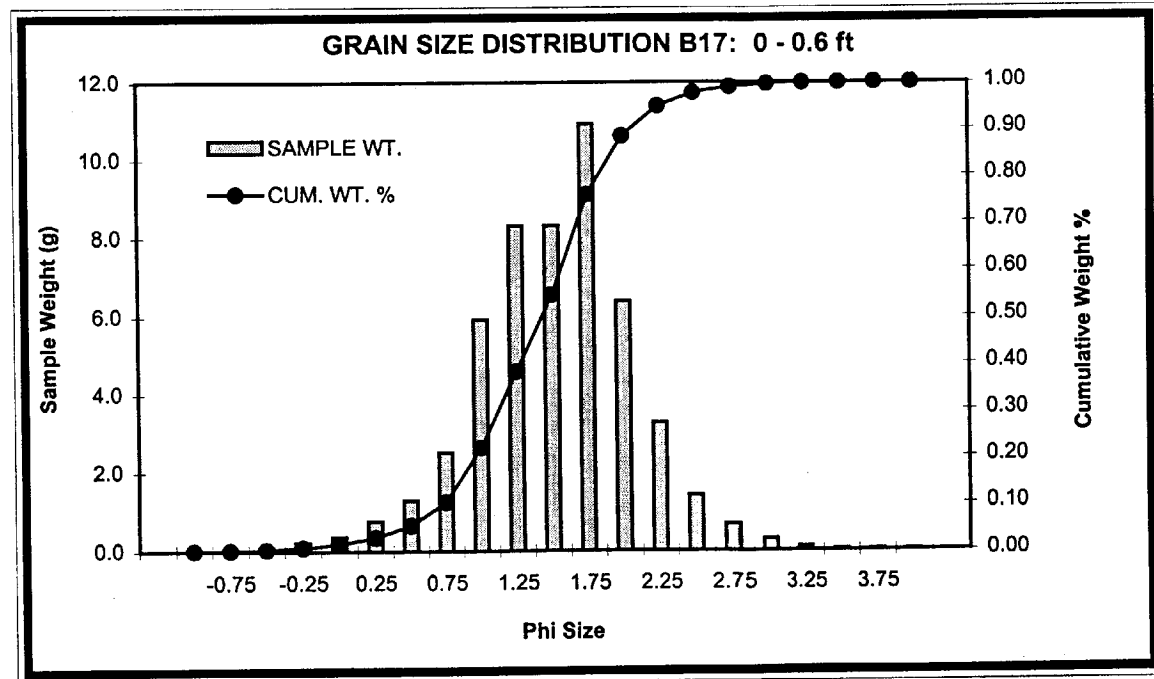


GRAIN SIZE DISTRIBUTION CHART

CORE B17: 0 - 0.6 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.0260	0.0260	0.000509364	0.000509364
-0.75	0.0520	0.0780	0.001018729	0.001528093
-0.50	0.0880	0.1660	0.001724003	0.003252096
-0.25	0.2250	0.3910	0.004407962	0.007660058
0.00	0.3610	0.7520	0.007072330	0.014732388
0.25	0.7620	1.5140	0.014928297	0.029660685
0.50	1.2900	2.8040	0.025272314	0.054932999
0.75	2.5230	5.3270	0.049427945	0.104360943
1.00	5.9230	11.2500	0.116037144	0.220398088
1.25	8.3130	19.5630	0.162859494	0.383257582
1.50	8.3120	27.8750	0.162839903	0.546097485
1.75	10.9200	38.7950	0.213933077	0.760030562
2.00	6.3900	45.1850	0.125186114	0.885216676
2.25	3.2850	48.4700	0.064356242	0.949572917
2.50	1.4130	49.8830	0.027682000	0.977254917
2.75	0.6770	50.5600	0.013263067	0.990517984
3.00	0.3070	50.8670	0.006014419	0.996532403
3.25	0.1020	50.9690	0.001998276	0.998530679
3.50	0.0320	51.0010	0.000626910	0.999157590
3.75	0.0260	51.0270	0.000509364	0.999666954
4.00	0.0170	51.0440	0.000333046	1

TOTAL WT.	51.044	grams	
MEDIAN WT.	25.522	grams	
MEAN GRAIN SIZE	1.43	phi	0.3711 mm

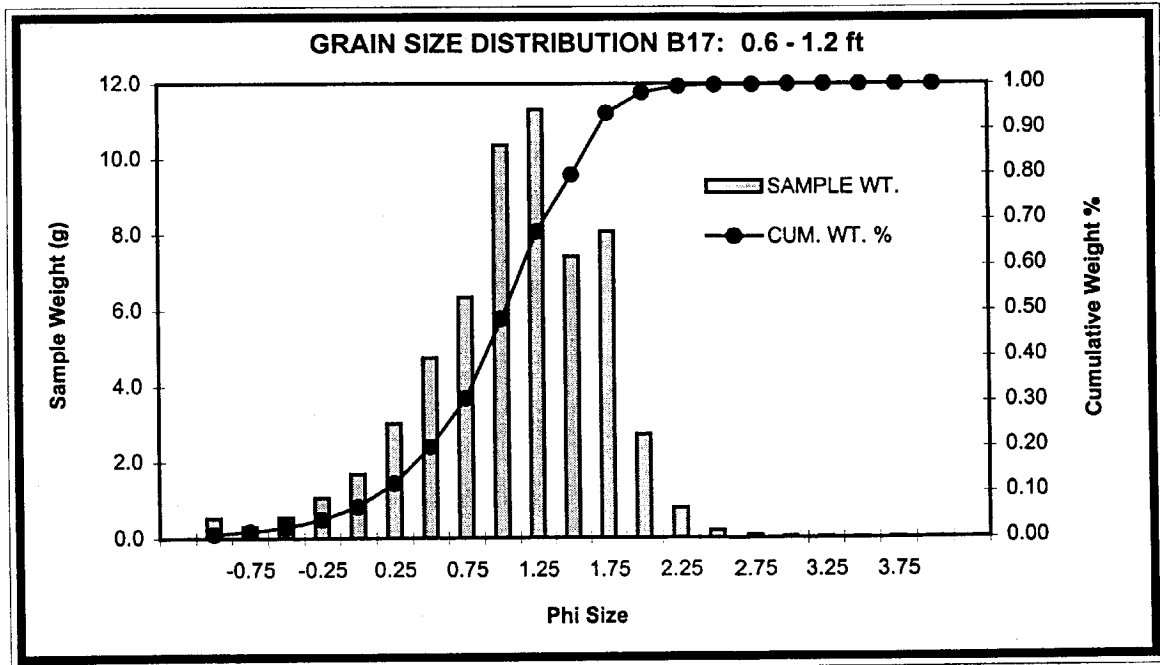


GRAIN SIZE DISTRIBUTION CHART

CORE B17: 0.6 - 1.2 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.5220	0.5220	0.008796171	0.008796171
-0.75	0.3090	0.8310	0.005206929	0.014003101
-0.50	0.5380	1.3690	0.009065786	0.023068886
-0.25	1.0520	2.4210	0.017727150	0.040796037
0.00	1.6930	4.1140	0.028528579	0.069324616
0.25	3.0310	7.1450	0.051075088	0.120399703
0.50	4.7660	11.9110	0.080311405	0.200711108
0.75	6.3630	18.2740	0.107222297	0.307933405
1.00	10.3680	28.6420	0.174710164	0.482643570
1.25	11.3180	39.9600	0.190718523	0.673362092
1.50	7.4260	47.3860	0.125134807	0.798496899
1.75	8.0770	55.4630	0.136104745	0.934601645
2.00	2.7290	58.1920	0.045986115	0.980587760
2.25	0.7750	58.9670	0.013059450	0.993647209
2.50	0.1970	59.1640	0.003319628	0.996966837
2.75	0.0650	59.2290	0.001095309	0.998062146
3.00	0.0380	59.2670	0.000640334	0.998702480
3.25	0.0290	59.2960	0.000488676	0.999191157
3.50	0.0170	59.3130	0.000286465	0.999477622
3.75	0.0190	59.3320	0.000320167	0.999797789
4.00	0.0120	59.3440	0.000202211	1

TOTAL WT.	59.344	grams	
MEDIAN WT.	29.672	grams	
MEAN GRAIN SIZE	1.02	phi	mm

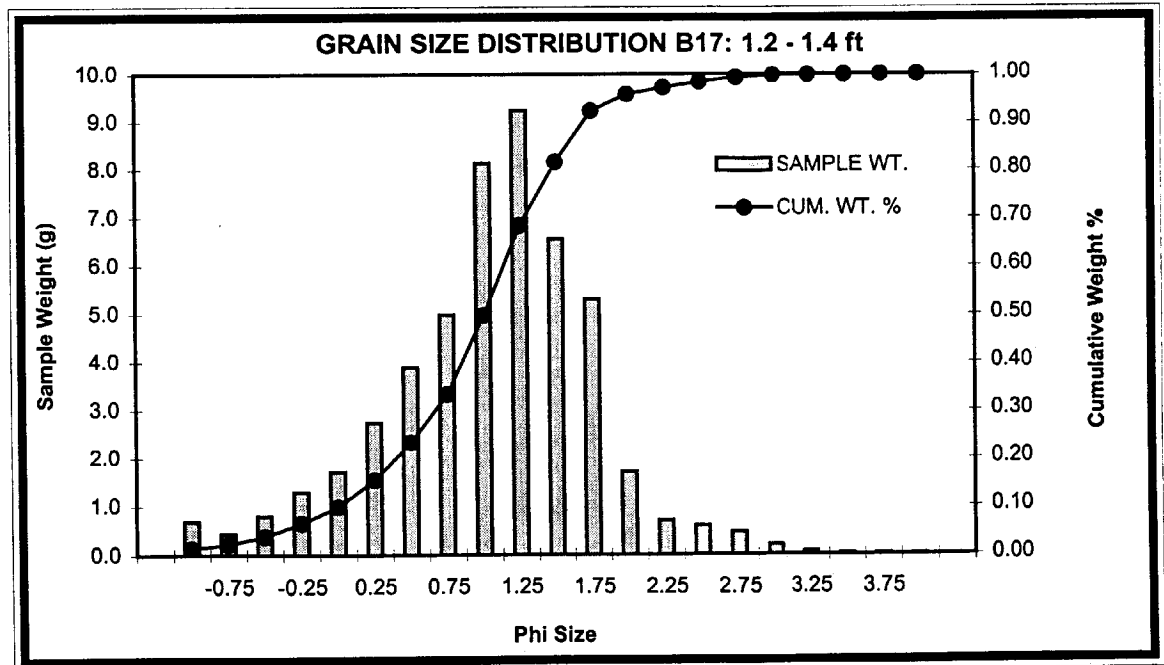


GRAIN SIZE DISTRIBUTION CHART

CORE B17: 1.2 - 1.4 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.6900	0.6900	0.013900641	0.013900641
-0.75	0.4400	1.1300	0.008864177	0.022764817
-0.50	0.8100	1.9400	0.016318143	0.039082961
-0.25	1.2960	3.2360	0.026109029	0.065191990
0.00	1.7180	4.9540	0.034610581	0.099802571
0.25	2.7400	7.6940	0.055199645	0.155002216
0.50	3.8920	11.5860	0.078407672	0.233409888
0.75	4.9850	16.5710	0.100427092	0.333836980
1.00	8.1320	24.7030	0.163826101	0.497663081
1.25	9.2400	33.9430	0.186147709	0.683810790
1.50	6.5600	40.5030	0.132156815	0.815967605
1.75	5.3150	45.8180	0.107075225	0.923042830
2.00	1.7270	47.5450	0.034791893	0.957834723
2.25	0.7070	48.2520	0.014243120	0.972077844
2.50	0.6040	48.8560	0.012168097	0.984245941
2.75	0.4660	49.3220	0.009387969	0.993633910
3.00	0.2090	49.5310	0.004210484	0.997844393
3.25	0.0570	49.5880	0.001148314	0.998992707
3.50	0.0200	49.6080	0.000402917	0.999395624
3.75	0.0180	49.6260	0.000362625	0.999758250
4.00	0.0120	49.6380	0.000241750	1

TOTAL WT.	49.638	grams	
MEDIAN WT.	24.819	grams	
MEAN GRAIN SIZE	1	phi	0.5 mm

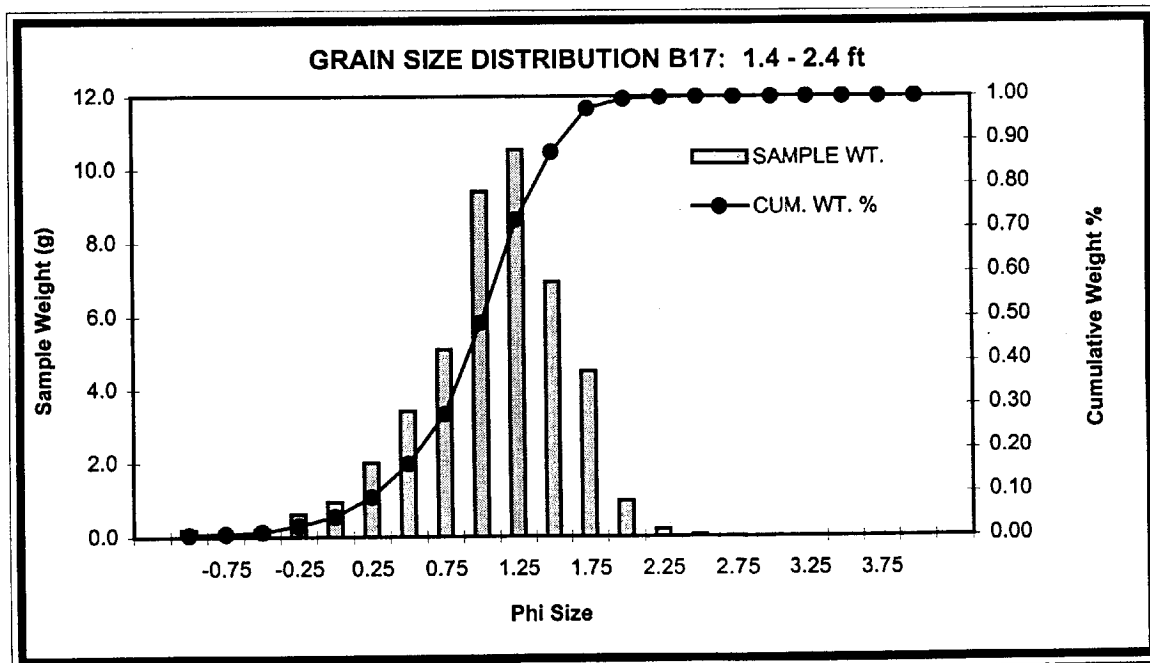


GRAIN SIZE DISTRIBUTION CHART

COREB17: 1.4 - 2.4 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.1940	0.1940	0.004289283	0.004289283
-0.75	0.0970	0.2910	0.002144642	0.006433925
-0.50	0.2070	0.4980	0.004576710	0.011010635
-0.25	0.6170	1.1150	0.013641690	0.024652325
0.00	0.9350	2.0500	0.020672577	0.045324902
0.25	2.0060	4.0560	0.044352075	0.089676977
0.50	3.4310	7.4870	0.075858409	0.165535387
0.75	5.1110	12.5980	0.113002719	0.278538106
1.00	9.3990	21.9970	0.207809149	0.486347255
1.25	10.5360	32.5330	0.232947887	0.719295142
1.50	6.9460	39.4790	0.153574034	0.872869177
1.75	4.5070	43.9860	0.099648456	0.972517632
2.00	0.9660	44.9520	0.021357978	0.993875611
2.25	0.1850	45.1370	0.004090296	0.997965907
2.50	0.0440	45.1810	0.000972827	0.998938734
2.75	0.0170	45.1980	0.000375865	0.999314599
3.00	0.0090	45.2070	0.000198987	0.999513586
3.25	0.0090	45.2160	0.000198987	0.999712574
3.50	0.0040	45.2200	0.000088439	0.999801013
3.75	0.0060	45.2260	0.000132658	0.999933671
4.00	0.0030	45.2290	0.000066329	1

TOTAL WT.	45.229	grams	
MEDIAN WT.	22.6145	grams	
MEAN GRAIN SIZE	1.01	phi	0.4965 mm

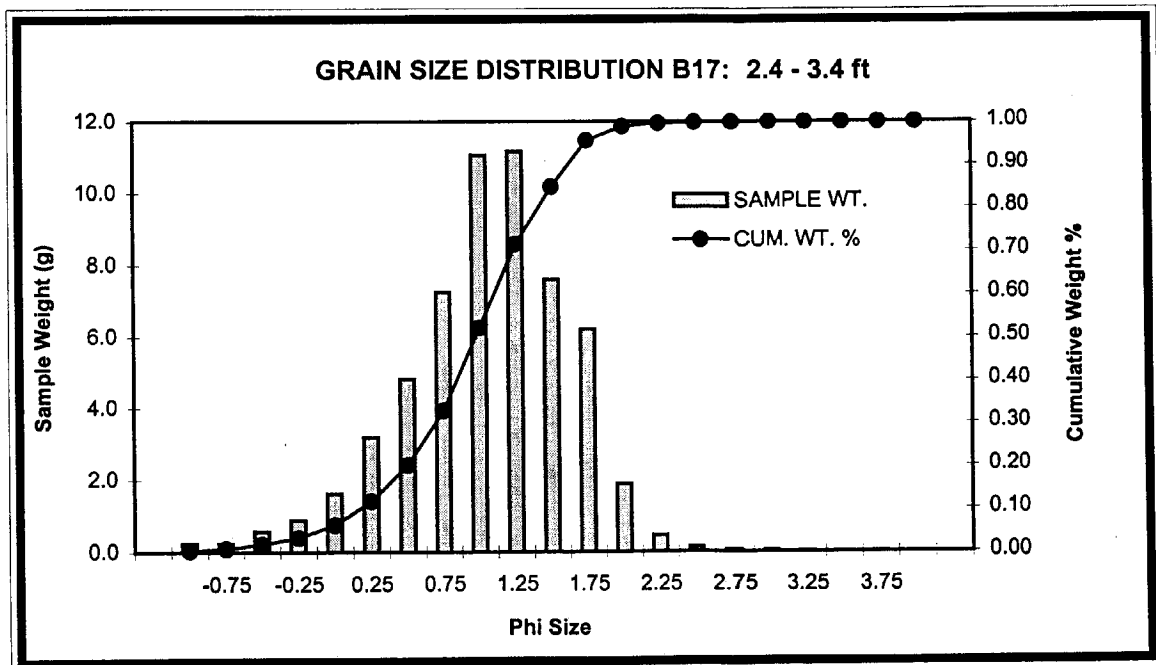


GRAIN SIZE DISTRIBUTION CHART

CORE B17: 2.4 - 3.4 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.2300	0.2300	0.004005224	0.004005224
-0.75	0.2390	0.4690	0.004161950	0.008167175
-0.50	0.5840	1.0530	0.010169787	0.018336961
-0.25	0.8930	1.9460	0.015550718	0.033887680
0.00	1.6300	3.5760	0.028384850	0.062272529
0.25	3.1850	6.7610	0.055463648	0.117736178
0.50	4.8210	11.5820	0.083952982	0.201689160
0.75	7.2400	18.8220	0.126077492	0.327766652
1.00	11.0550	29.8770	0.192511972	0.520278624
1.25	11.1580	41.0350	0.194305616	0.714584240
1.50	7.5970	48.6320	0.132294297	0.846878537
1.75	6.2080	54.8400	0.108106226	0.954984763
2.00	1.8870	56.7270	0.032860253	0.987845015
2.25	0.4430	57.1700	0.007714410	0.995559425
2.50	0.1210	57.2910	0.002107096	0.997666522
2.75	0.0570	57.3480	0.000992599	0.998659121
3.00	0.0340	57.3820	0.000592077	0.999251197
3.25	0.0170	57.3990	0.000296038	0.999547236
3.50	0.0090	57.4080	0.000156726	0.999703962
3.75	0.0100	57.4180	0.000174140	0.999878102
4.00	0.0070	57.4250	0.000121898	1

TOTAL WT.	57.425 grams
MEDIAN WT.	28.7125 grams
MEAN GRAIN SIZE	0.97 phi 0.5105 mm

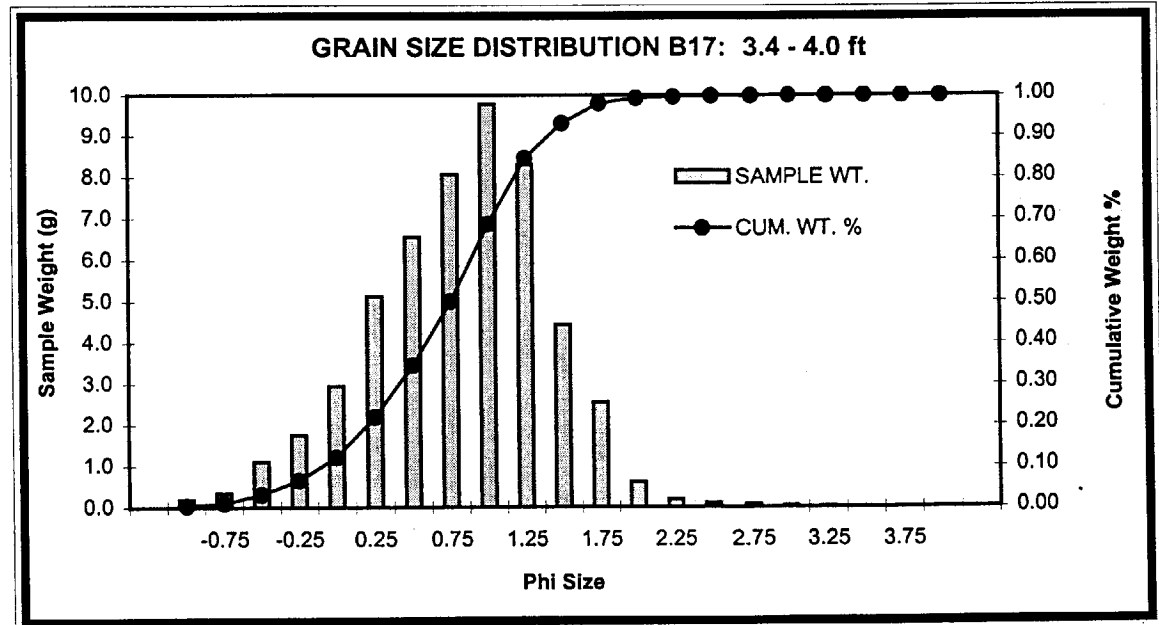


GRAIN SIZE DISTRIBUTION CHART

COREB17: 3.4 - 4.0 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.187	0.187	0.003582444	0.003582444
-0.75	0.348	0.535	0.006666794	0.010249238
-0.50	1.108	1.643	0.02122646	0.031475699
-0.25	1.758	3.401	0.033678806	0.065154505
0.00	2.952	6.353	0.056552808	0.121707312
0.25	5.128	11.481	0.09823943	0.219946742
0.50	6.551	18.032	0.125500489	0.345447231
0.75	8.063	26.095	0.154466561	0.499913791
1.00	9.776	35.871	0.187283281	0.687197073
1.25	8.297	44.168	0.158949405	0.846146478
1.50	4.436	48.604	0.084982471	0.931128949
1.75	2.557	51.161	0.048985613	0.980114562
2.00	0.618	51.779	0.011839307	0.991953869
2.25	0.181	51.96	0.003467499	0.995421368
2.50	0.102	52.062	0.00195406	0.997375429
2.75	0.062	52.124	0.001187762	0.998563191
3.00	0.032	52.156	0.000613039	0.999176229
3.25	0.019	52.175	0.000363992	0.999540221
3.50	0.008	52.183	0.00015326	0.999693481
3.75	0.009	52.192	0.000172417	0.999865898
4.00	0.007	52.199	0.000134102	1

TOTAL WT.	52.199	grams	
MEDIAN WT.	26.0995	grams	
MEAN GRAIN SIZE	0.75	phi	0.5946 mm

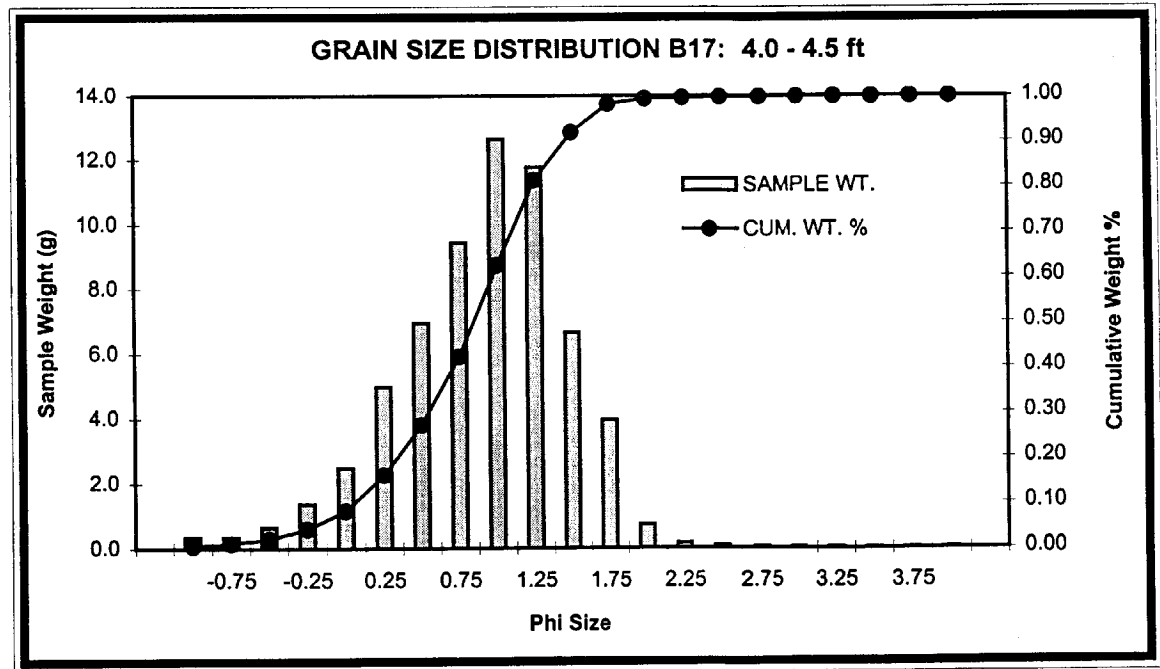


GRAIN SIZE DISTRIBUTION CHART

CORE B17: 4.0 - 4.5 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.3290	0.3290	0.005246874	0.005246874
-0.75	0.3340	0.6630	0.005326614	0.010573488
-0.50	0.6460	1.3090	0.010302373	0.020875861
-0.25	1.3560	2.6650	0.021625415	0.042501276
0.00	2.4940	5.1590	0.039774177	0.082275453
0.25	4.9850	10.1440	0.079500510	0.161775963
0.50	6.9460	17.0900	0.110774432	0.272550396
0.75	9.4290	26.5190	0.150373182	0.422923577
1.00	12.6360	39.1550	0.201518244	0.624441822
1.25	11.7680	50.9230	0.187675427	0.812117249
1.50	6.6660	57.5890	0.106309007	0.918426257
1.75	3.9690	61.5580	0.063297397	0.981723654
2.00	0.7370	62.2950	0.011753636	0.993477290
2.25	0.1590	62.4540	0.002535723	0.996013014
2.50	0.0790	62.5330	0.001259888	0.997272901
2.75	0.0530	62.5860	0.000845241	0.998118142
3.00	0.0360	62.6220	0.000574126	0.998692268
3.25	0.0250	62.6470	0.000398699	0.999090967
3.50	0.0200	62.6670	0.000318959	0.999409926
3.75	0.0220	62.6890	0.000350855	0.999760781
4.00	0.0150	62.7040	0.000239219	1

TOTAL WT.	62.7040	grams	
MEDIAN WT.	31.3520	grams	
MEAN GRAIN SIZE	0.85	phi	0.5548 mm

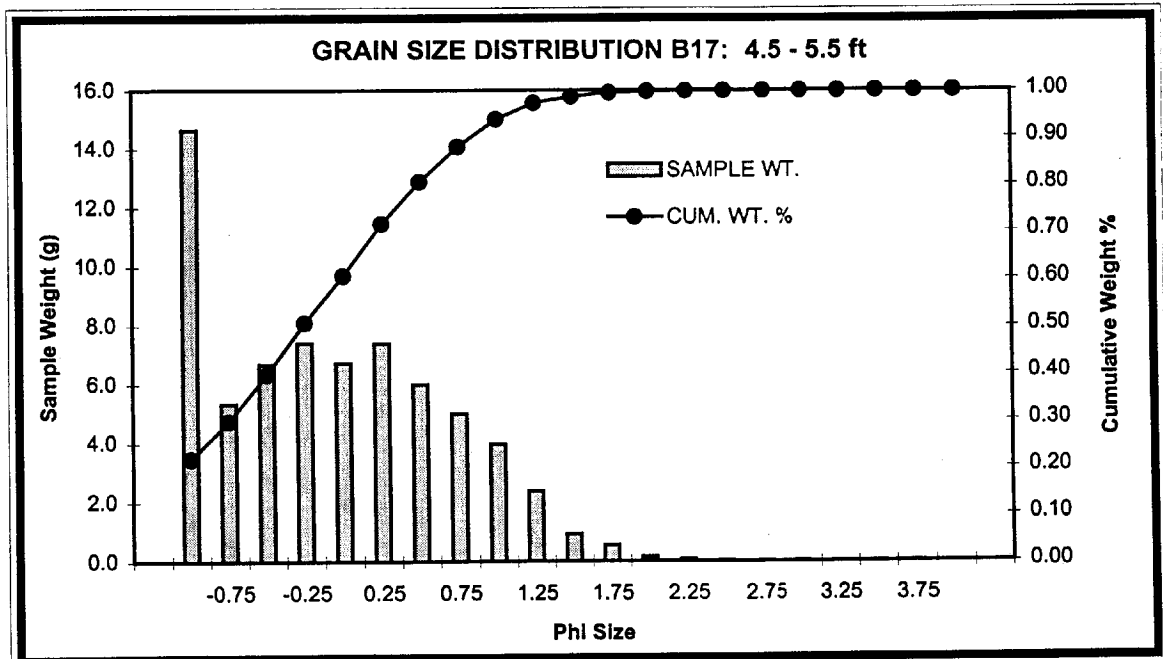


GRAIN SIZE DISTRIBUTION CHART

CORE B17: 4.5 - 5.5 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	14.6390	14.6390	0.217295789	0.217295789
-0.75	5.3390	19.9780	0.079250100	0.296545889
-0.50	6.6860	26.6640	0.099244460	0.395790349
-0.25	7.4120	34.0760	0.110020930	0.505811278
0.00	6.7260	40.8020	0.099838205	0.605649483
0.25	7.4040	48.2060	0.109902181	0.715551663
0.50	5.9970	54.2030	0.089017204	0.804568867
0.75	4.9970	59.2000	0.074173581	0.878742448
1.00	3.9760	63.1760	0.059018243	0.937760691
1.25	2.3690	65.5450	0.035164542	0.972925233
1.50	0.9130	66.4580	0.013552227	0.986477460
1.75	0.5540	67.0120	0.008223367	0.994700827
2.00	0.1670	67.1790	0.002478885	0.997179712
2.25	0.0660	67.2450	0.000979679	0.998159391
2.50	0.0370	67.2820	0.000549214	0.998708605
2.75	0.0270	67.3090	0.000400778	0.999109383
3.00	0.0180	67.3270	0.000267185	0.999376568
3.25	0.0150	67.3420	0.000222654	0.999599222
3.50	0.0100	67.3520	0.000148436	0.999747658
3.75	0.0110	67.3630	0.000163280	0.999910938
4.00	0.0060	67.3690	0.000089062	1

TOTAL WT.	67.3690	grams	
MEDIAN WT.	33.6845	grams	
MEAN GRAIN SIZE	-0.26	phi	1.1975 mm

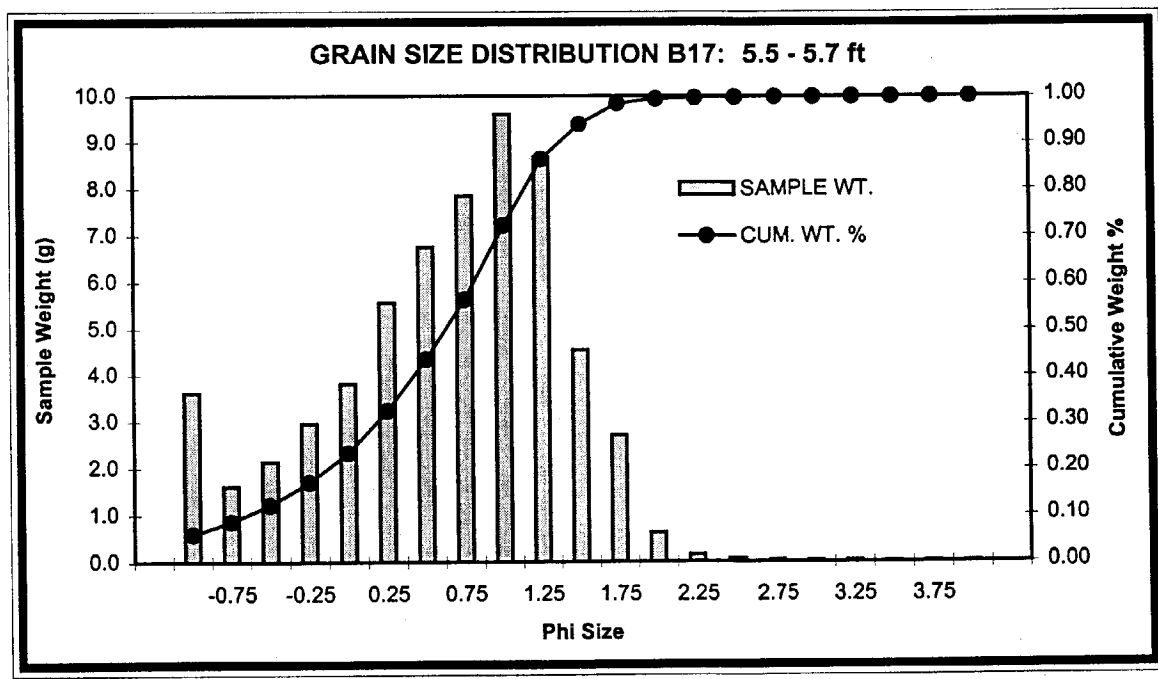


GRAIN SIZE DISTRIBUTION CHART

CORE B17: 5.5 - 5.7 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	3.6200	3.6200	0.059489573	0.059489573
-0.75	1.6150	5.2350	0.026540238	0.086029811
-0.50	2.1410	7.3760	0.035184303	0.121214113
-0.25	2.9640	10.3400	0.048709142	0.169923255
0.00	3.8140	14.1540	0.062677688	0.232600943
0.25	5.5600	19.7140	0.091370725	0.323971669
0.50	6.7610	26.4750	0.111107459	0.435079128
0.75	7.8490	34.3240	0.128987198	0.564066326
1.00	9.6080	43.9320	0.157893872	0.721960198
1.25	8.6770	52.6090	0.142594206	0.864554403
1.50	4.5510	57.1600	0.074789239	0.939343643
1.75	2.7060	59.8660	0.044469277	0.983812920
2.00	0.6260	60.4920	0.010287423	0.994100343
2.25	0.1550	60.6470	0.002547205	0.996647549
2.50	0.0680	60.7150	0.001117484	0.997765033
2.75	0.0390	60.7540	0.000640910	0.998405942
3.00	0.0310	60.7850	0.000509441	0.998915383
3.25	0.0260	60.8110	0.000427273	0.999342657
3.50	0.0110	60.8220	0.000180769	0.999523426
3.75	0.0160	60.8380	0.000262937	0.999786363
4.00	0.0130	60.8510	0.000213637	1

TOTAL WT.	60.8510	grams	
MEDIAN WT.	30.4255	grams	
MEAN GRAIN SIZE	0.63	phi	0.6462 mm

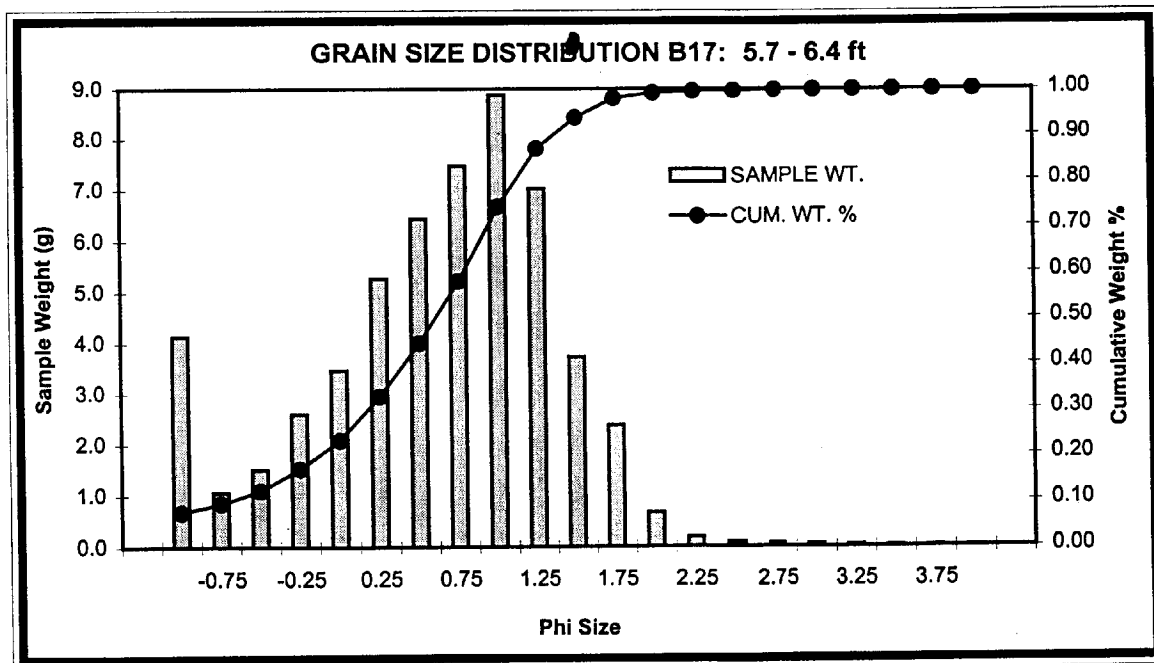


GRAIN SIZE DISTRIBUTION CHART

CORE B17: 5.7 - 6.4 ft

PHI SIZE	SAMPLE WT.	CUM WT.	WEIGHT %	CUM. WT. %
<-1.00	4.1310	4.1310	0.074997277	0.074997277
-0.75	1.0690	5.2000	0.019407429	0.094404706
-0.50	1.5160	6.7160	0.027522603	0.121927308
-0.25	2.5960	9.3120	0.047129734	0.169057042
0.00	3.4670	12.7790	0.062942522	0.231999564
0.25	5.2620	18.0410	0.095530300	0.327529865
0.50	6.4330	24.4740	0.116789514	0.444319378
0.75	7.4760	31.9500	0.135724919	0.580044298
1.00	8.8780	40.8280	0.161177880	0.741222178
1.25	7.0310	47.8590	0.127646055	0.868868233
1.50	3.7230	51.5820	0.067590138	0.936458371
1.75	2.3800	53.9620	0.043208308	0.979666679
2.00	0.6610	54.6230	0.012000290	0.991666969
2.25	0.1880	54.8110	0.003413093	0.995080062
2.50	0.0910	54.9020	0.001652082	0.996732145
2.75	0.0650	54.9670	0.001180059	0.997912204
3.00	0.0440	55.0110	0.000798809	0.998711013
3.25	0.0320	55.0430	0.000580952	0.999291965
3.50	0.0170	55.0600	0.000308631	0.999600595
3.75	0.0130	55.0730	0.000236012	0.999836607
4.00	0.0090	55.0820	0.000163393	1.000000000

TOTAL WT.	55.0820	grams	
MEDIAN WT.	27.5410	grams	
MEAN GRAIN SIZE	0.60	phi	0.6598 mm

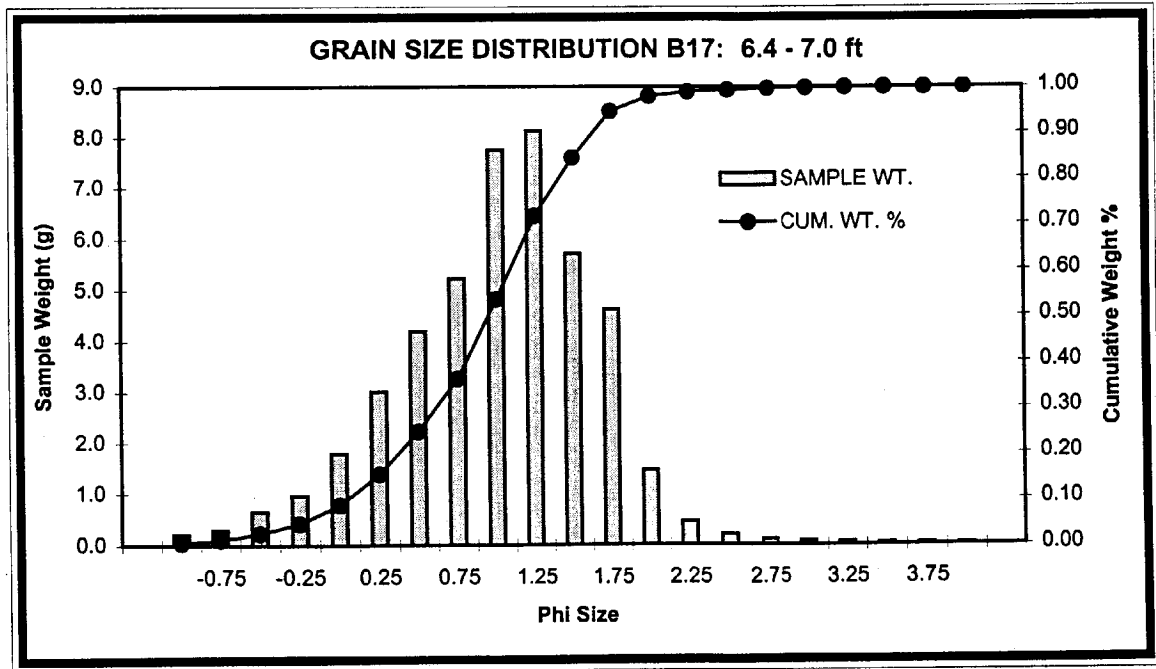


GRAIN SIZE DISTRIBUTION CHART

CORE B17: 6.4 - 7.0 ft

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
<-1.00	0.2050	0.2050	0.004558696	0.004558696
-0.75	0.2890	0.4940	0.006426649	0.010985345
-0.50	0.6500	1.1440	0.014454402	0.025439747
-0.25	0.9680	2.1120	0.021525940	0.046965687
0.00	1.8000	3.9120	0.040027575	0.086993262
0.25	3.0120	6.9240	0.066979475	0.153972737
0.50	4.1930	11.1170	0.093242011	0.247214748
0.75	5.2210	16.3380	0.116102204	0.363316952
1.00	7.7520	24.0900	0.172385421	0.535702373
1.25	8.1280	32.2180	0.180746737	0.716449109
1.50	5.7120	37.9300	0.127020837	0.843469946
1.75	4.6160	42.5460	0.102648491	0.946118437
2.00	1.4640	44.0100	0.032555761	0.978674198
2.25	0.4510	44.4610	0.010029131	0.988703329
2.50	0.2000	44.6610	0.004447508	0.993150837
2.75	0.1070	44.7680	0.002379417	0.995530254
3.00	0.0730	44.8410	0.001623341	0.997153595
3.25	0.0530	44.8940	0.001178590	0.998332184
3.50	0.0300	44.9240	0.000667126	0.998999311
3.75	0.0270	44.9510	0.000600414	0.999599724
4.00	0.0180	44.9690	0.000400276	1

TOTAL WT.	44.9690	grams	
MEDIAN WT.	22.4845	grams	
MEAN GRAIN SIZE	0.95	phi	0.5176 mm

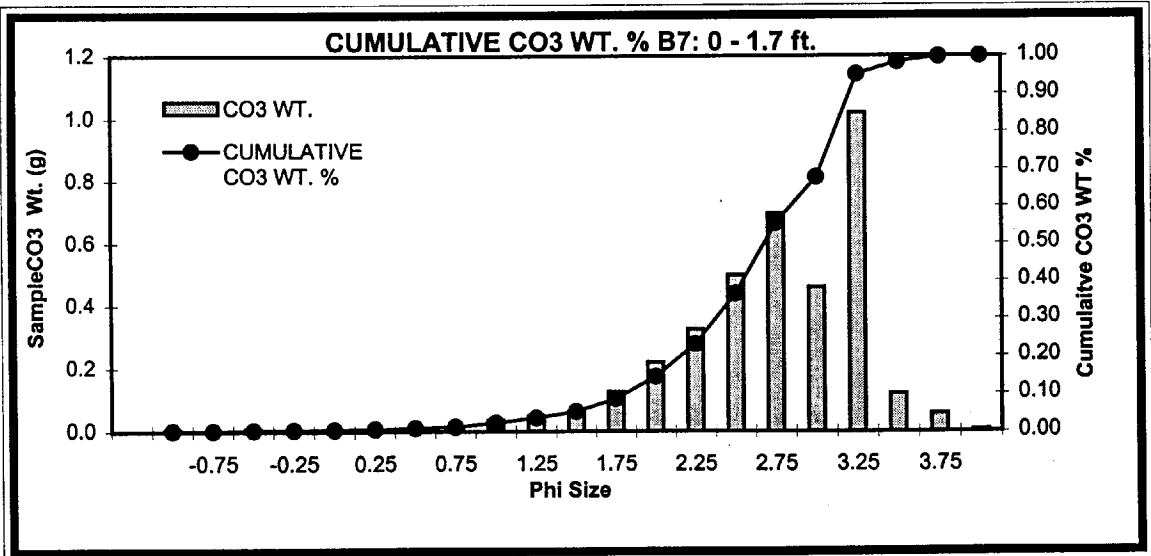


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B7: 0 - 1.7 ft.

PHI SIZE	TOTAL WT.	DIG. WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUMULATIVE CO3 WT. %
<-1.00	0.0051	0	0.0051	0.0051	0.001370194	0.001370194
-0.75	0	0	0	0.0051	0	0.001370194
-0.50	0.0084	0	0.0084	0.0135	0.002256791	0.003626985
-0.25	0.0034	0	0.0034	0.0169	0.000913463	0.004540448
0.00	0.0012	0	0.0012	0.0181	0.000322399	0.004862846
0.25	0.0122	0.0046	0.0076	0.0257	0.002041858	0.006904704
0.50	0.0143	0.0042	0.0101	0.0358	0.002713522	0.009618226
0.75	0.0269	0.0137	0.0132	0.049	0.003546385	0.013164611
1.00	0.0749	0.0389	0.036	0.085	0.009671959	0.022836571
1.25	0.1498	0.101	0.0488	0.1338	0.013110878	0.035947449
1.50	0.2181	0.1556	0.0625	0.1963	0.016791596	0.052739045
1.75	0.4941	0.3679	0.1262	0.3225	0.033905591	0.086644636
2.00	0.8127	0.5932	0.2195	0.542	0.058972086	0.145616722
2.25	1.4237	1.0986	0.3251	0.8671	0.087343166	0.232959888
2.50	2.7476	2.2484	0.4992	1.3663	0.134117837	0.367077725
2.75	6.1016	5.4061	0.6955	2.0618	0.186856882	0.553934607
3.00	12.731	12.272	0.4599	2.5217	0.123559281	0.677493888
3.25	11.75	10.731	1.0184	3.5401	0.273608984	0.951102872
3.50	4.1772	4.0568	0.1204	3.6605	0.032347331	0.983450203
3.75	0.8453	0.7888	0.0565	3.717	0.015179603	0.998629806
4.00	0.0996	0.0945	0.0051	3.7221	0.001370194	1

TOTAL WT. 41.697 grams
 CO3 WT. 3.7221 grams
 % CARBONATE 8.9265

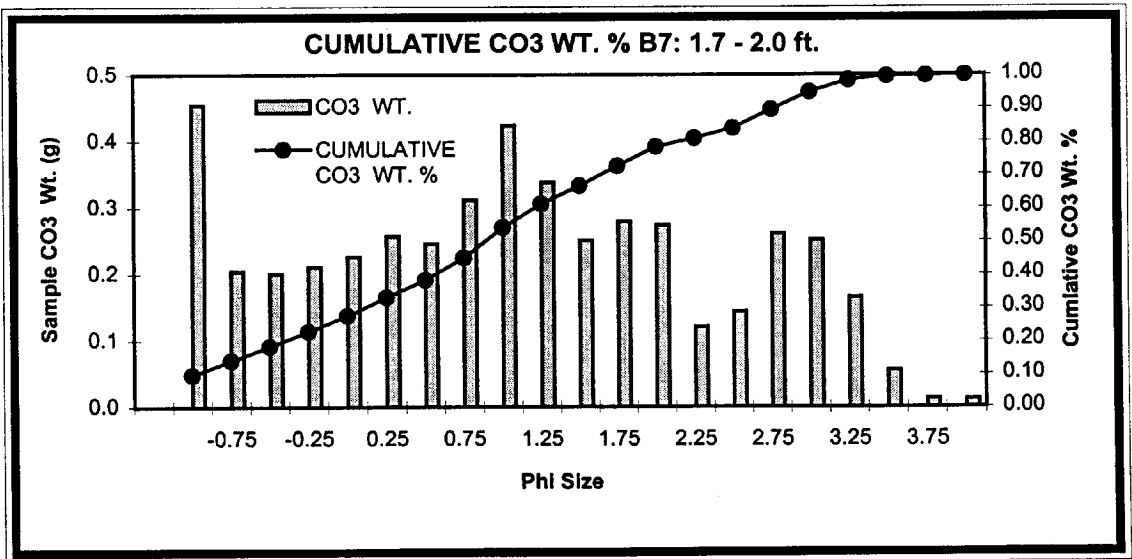


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B7: 1.7 - 2.0 ft.

PHI SIZE	TOTAL WT.	DIG. WT.	CO3. WT.	CUM. CO3 WT.	CO3 WT. %	CUMULATIVE CO3 WT. %
<-1.00	0.4540	0	0.4540	0.4540	0.096688319	0.096688319
-0.75	0.2047	0	0.2047	0.6587	0.043594931	0.140283250
-0.50	0.2005	0	0.2005	0.8592	0.042700458	0.182983708
-0.25	0.2233	0.0126	0.2107	1.0699	0.044872751	0.227856458
0.00	0.2751	0.0487	0.2264	1.2963	0.048216377	0.276072836
0.25	0.4138	0.1571	0.2567	1.5530	0.054669364	0.330742200
0.50	0.4984	0.2524	0.2460	1.7990	0.052390587	0.383132787
0.75	0.7294	0.4180	0.3114	2.1104	0.066318816	0.449451603
1.00	1.1975	0.7745	0.4230	2.5334	0.090086253	0.539537855
1.25	1.4727	1.1347	0.3380	2.8714	0.071983814	0.61152167
1.50	1.2225	0.9718	0.2507	3.1221	0.053391545	0.664913215
1.75	1.5458	1.2672	0.2786	3.4007	0.059333404	0.724246619
2.00	1.5076	1.2341	0.2735	3.6742	0.058247258	0.782493877
2.25	1.7470	1.6260	0.1210	3.7952	0.025769354	0.808263231
2.50	2.2823	2.1385	0.1438	3.9390	0.030625067	0.838888297
2.75	3.2133	2.9524	0.2609	4.1999	0.055563838	0.894452135
3.00	3.7082	3.4567	0.2515	4.4514	0.053561921	0.948014056
3.25	2.5293	2.3644	0.1649	4.6163	0.035118731	0.983132787
3.50	0.7967	0.7416	0.0551	4.6714	0.01173464	0.994867426
3.75	0.2995	0.2871	0.0124	4.6838	0.002640826	0.997508253
4.00	0.1074	0.0957	0.0117	4.6955	0.002491747	1

TOTAL WT. 24.6290 grams
 CO3 WT. 4.6955 grams
 % CARBONATE 19.0649

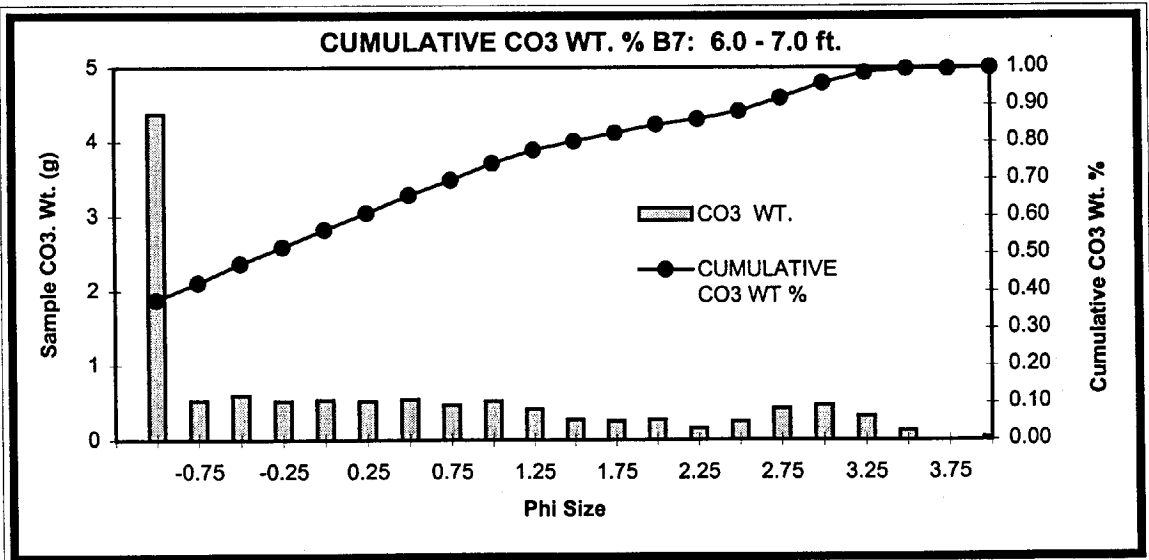


CARBONATE GRAIN SIZE DISTRIBUTION

CORE B 7: 6.0 -7.0 ft.

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3. WT.	CO3 WT. %	CUMULATIVE CO3 WT %
<-1.00	4.3674	0	4.3674	4.3674	0.376321572	0.376321572
-0.75	0.5376	0.0092	0.5284	4.8958	0.045530137	0.421851708
-0.50	0.6083	0.0145	0.5938	5.4896	0.051165396	0.473017104
-0.25	0.5606	0.0384	0.5222	6.0118	0.044995907	0.518013011
0.00	0.6248	0.0878	0.5370	6.5488	0.046271165	0.564284176
0.25	0.7280	0.2071	0.5209	7.0697	0.044883891	0.609168067
0.50	0.9800	0.4330	0.5470	7.6167	0.047132825	0.656300892
0.75	1.0680	0.5982	0.4698	8.0865	0.040480807	0.696781698
1.00	1.4092	0.8879	0.5213	8.6078	0.044918358	0.741700056
1.25	1.4683	1.0525	0.4158	9.0236	0.035827840	0.777527896
1.50	1.0821	0.8083	0.2738	9.2974	0.023592262	0.801120159
1.75	1.3928	1.1367	0.2561	9.5535	0.022067123	0.823187282
2.00	1.3285	1.0543	0.2742	9.8277	0.023626729	0.846814011
2.25	1.4358	1.2804	0.1554	9.9831	0.013390203	0.860204214
2.50	1.9738	1.7275	0.2463	10.2294	0.021222696	0.881426910
2.75	3.3073	2.8799	0.4274	10.6568	0.036827366	0.918254276
3.00	5.0166	4.5498	0.4668	11.1236	0.040222308	0.958476584
3.25	5.0372	4.7156	0.3216	11.4452	0.027710999	0.986187583
3.50	2.9938	2.8701	0.1237	11.5689	0.010658739	0.996846323
3.75	1.4052	1.4052	0	11.5689	0	0.996846323
4.00	0.4645	0.4279	0.0366	11.6055	0.003153677	1

TOTAL WT. 37.7898 grams
CO3 WT. 11.6055 grams
% CARBONATE 30.7107

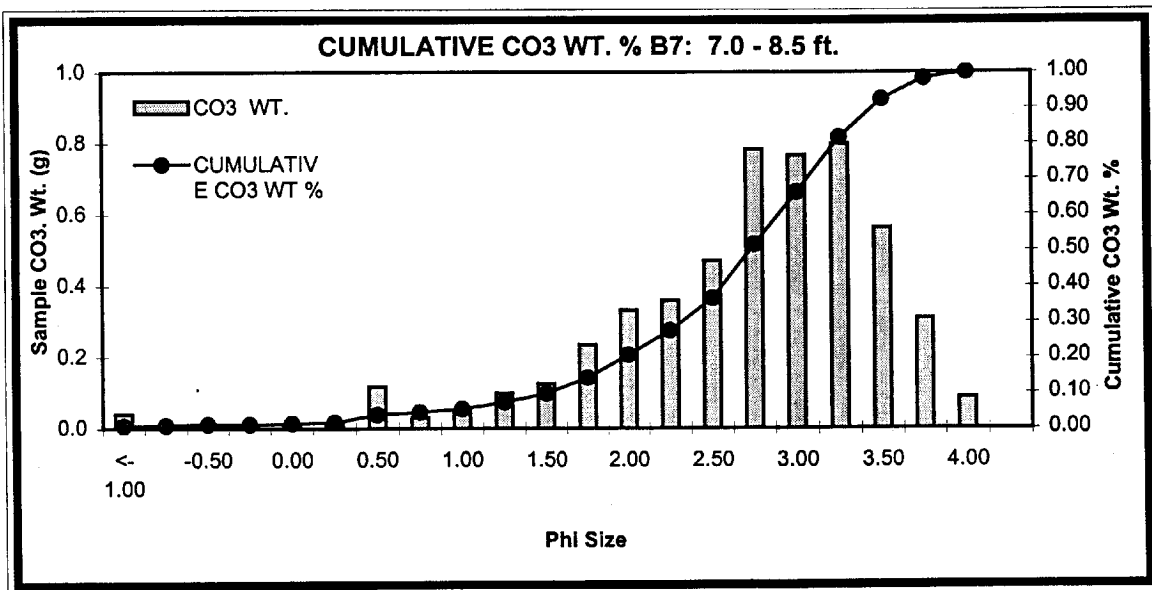


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B7: 7.0 - 8.5 ft.

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT	CO3 WT%	CUMULATIVE CO3 WT. %
<-1.00	0.0403	0	0.0403	0.0403	0.007744489	0.007744489
-0.75	0.0072	0	0.0072	0.0475	0.001383631	0.00912812
-0.50	0.0123	0	0.0123	0.0598	0.002363703	0.011491823
-0.25	0.0027	0	0.0027	0.0625	0.000518862	0.012010685
0.00	0.0168	0.0052	0.0116	0.0741	0.002229183	0.014239868
0.25	0.0224	0.0089	0.0135	0.0876	0.002594308	0.016834176
0.50	0.1268	0.0107	0.1161	0.2037	0.022311048	0.039145224
0.75	0.0608	0.0313	0.0295	0.2332	0.005669043	0.044814267
1.00	0.1216	0.0725	0.0491	0.2823	0.009435594	0.054249861
1.25	0.2793	0.1813	0.0980	0.3803	0.018832754	0.073082614
1.50	0.3759	0.2517	0.1242	0.5045	0.023867633	0.096950247
1.75	0.8402	0.6051	0.2351	0.7396	0.045179392	0.142129639
2.00	1.0784	0.7460	0.3324	1.0720	0.063877626	0.206007264
2.25	1.4193	1.0608	0.3585	1.4305	0.068893287	0.274900552
2.50	2.5055	2.0363	0.4692	1.8997	0.090166612	0.365067164
2.75	4.9329	4.1513	0.7816	2.6813	0.150200819	0.515267982
3.00	8.7387	7.9735	0.7652	3.4465	0.147049215	0.662317197
3.25	11.2909	10.4934	0.7975	4.2440	0.153256337	0.815573534
3.50	8.3587	7.7961	0.5626	4.8066	0.108115379	0.923688914
3.75	4.0488	3.7389	0.3099	5.1165	0.059553779	0.983242693
4.00	1.0104	0.9232	0.0872	5.2037	0.016757307	1

TOTAL WT. 45.2899 grams
 CO3 WT. 5.2037 grams
 % CARBONATE 11.4898



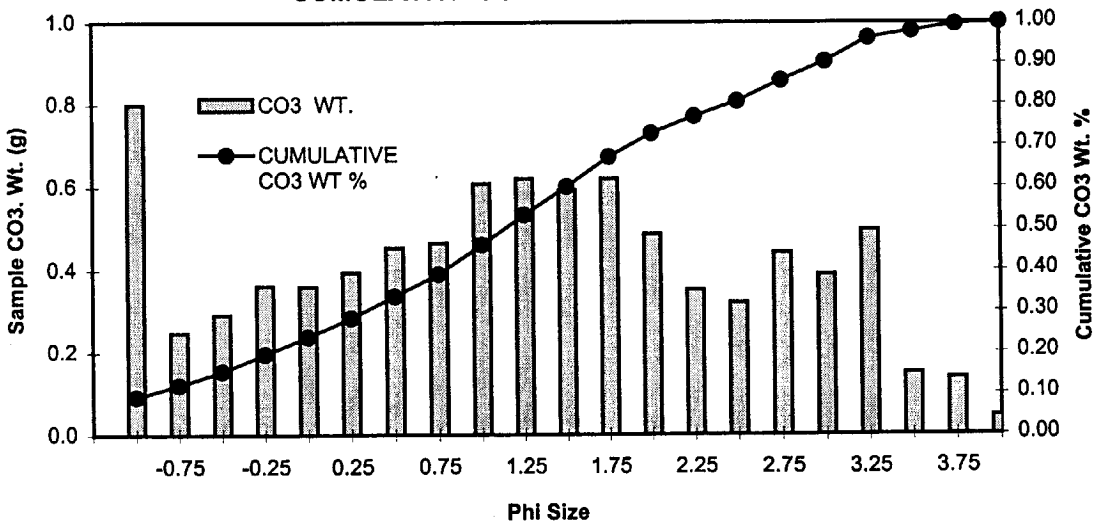
CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B7: 8.5 - 9.0 ft.

PHI SIZE	TOTAL WT.	DIG. WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUMULATIVE CO3 WT. %
<-1.00	0.7992	0	0.7992	0.7992	0.092473243	0.092473243
-0.75	0.2480	0	0.2480	1.0472	0.028695401	0.121168643
-0.50	0.2993	0.0078	0.2915	1.3387	0.033728666	0.15489731
-0.25	0.4038	0.0417	0.3621	1.7008	0.041897599	0.196794909
0.00	0.4583	0.0973	0.3610	2.0618	0.041770321	0.23856523
0.25	0.6650	0.2694	0.3956	2.4574	0.045773792	0.284339022
0.50	0.9786	0.5240	0.4546	2.9120	0.052600521	0.336939543
0.75	1.3108	0.8456	0.4652	3.3772	0.053827018	0.390766561
1.00	2.1290	1.5209	0.6081	3.9853	0.070361585	0.461128146
1.25	2.6355	2.0154	0.6201	4.6054	0.071750072	0.532878218
1.50	2.2298	1.6370	0.5928	5.1982	0.068591264	0.601469482
1.75	2.7010	2.0811	0.6199	5.8181	0.071726931	0.673196413
2.00	2.0506	1.5632	0.4874	6.3055	0.056395719	0.729592132
2.25	1.7909	1.4383	0.3526	6.6581	0.04079838	0.770390512
2.50	2.2487	1.9282	0.3205	6.9786	0.037084177	0.807474689
2.75	3.4642	3.0214	0.4428	7.4214	0.051235175	0.858709864
3.00	4.8966	4.5059	0.3907	7.8121	0.045206827	0.903916691
3.25	5.7173	5.2199	0.4974	8.3095	0.057552791	0.961469482
3.50	3.7289	3.5788	0.1501	8.4596	0.01736766	0.978837142
3.75	1.8036	1.6662	0.1374	8.5970	0.015898178	0.99473532
4.00	0.4131	0.3676	0.0455	8.6425	0.00526468	1

TOTAL WT. 40.9722 grams
 CO3 WT. 8.6425 grams
 % CARBONATE 21.0936

CUMULATIVE CO3 WT. % B7: 8.5 - 9.0 ft.

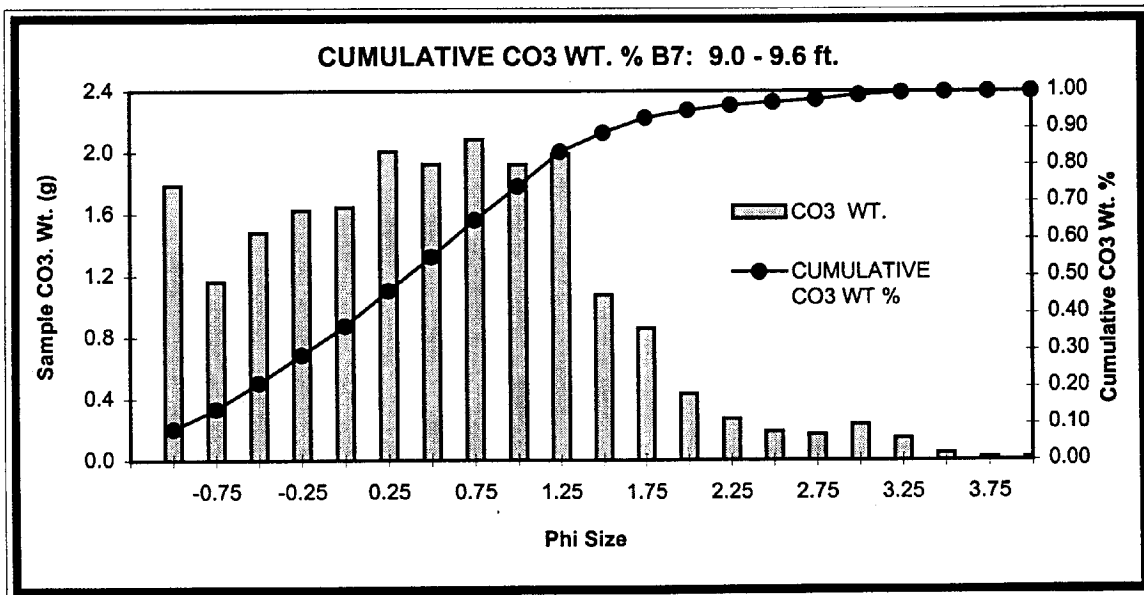


CARBONATE GRAIN SIZE DISTRIBUTION

CORE B7 : 9.0 - 9.6 ft.

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUMULATIVE CO3 WT %
<-1.00	1.7858	0	1.7858	1.7858	0.084686043	0.084686043
-0.75	1.1737	0.0132	1.1605	2.9463	0.055033124	0.139719167
-0.50	1.5264	0.0459	1.4805	4.4268	0.070208135	0.209927302
-0.25	1.8077	0.1836	1.6241	6.0509	0.077017921	0.286945223
0.00	2.1956	0.5498	1.6458	7.6967	0.078046976	0.364992199
0.25	3.6319	1.6260	2.0059	9.7026	0.095123605	0.460115804
0.50	4.8477	2.9230	1.9247	11.6273	0.091272946	0.551388751
0.75	6.7363	4.6494	2.0869	13.7142	0.098964780	0.650353530
1.00	8.3556	6.4325	1.9231	15.6373	0.091197071	0.741550602
1.25	7.6986	5.7049	1.9937	17.6310	0.094545058	0.836095659
1.50	4.1031	3.0248	1.0783	18.7093	0.051135043	0.887230703
1.75	3.2261	2.3667	0.8594	19.5687	0.040754388	0.927985091
2.00	1.5820	1.1477	0.4343	20.0030	0.020595335	0.948580425
2.25	1.1066	0.8362	0.2704	20.2734	0.012822884	0.961403309
2.50	1.2120	1.0227	0.1893	20.4627	0.008976967	0.970380276
2.75	1.5911	1.4212	0.1699	20.6326	0.008056982	0.978437258
3.00	1.9626	1.7283	0.2343	20.8669	0.011110953	0.989548211
3.25	2.0192	1.8771	0.1421	21.0090	0.006738653	0.996286865
3.50	1.2613	1.2165	0.0448	21.0538	0.002124501	0.998411366
3.75	0.6051	0.5880	0.0171	21.0709	0.000810915	0.999222281
4.00	0.1528	0.1364	0.0164	21.0873	0.000777719	1

TOTAL WT. 58.5812 grams
 CO3 WT. 21.0873 grams
 % CARBONATE 35.9967



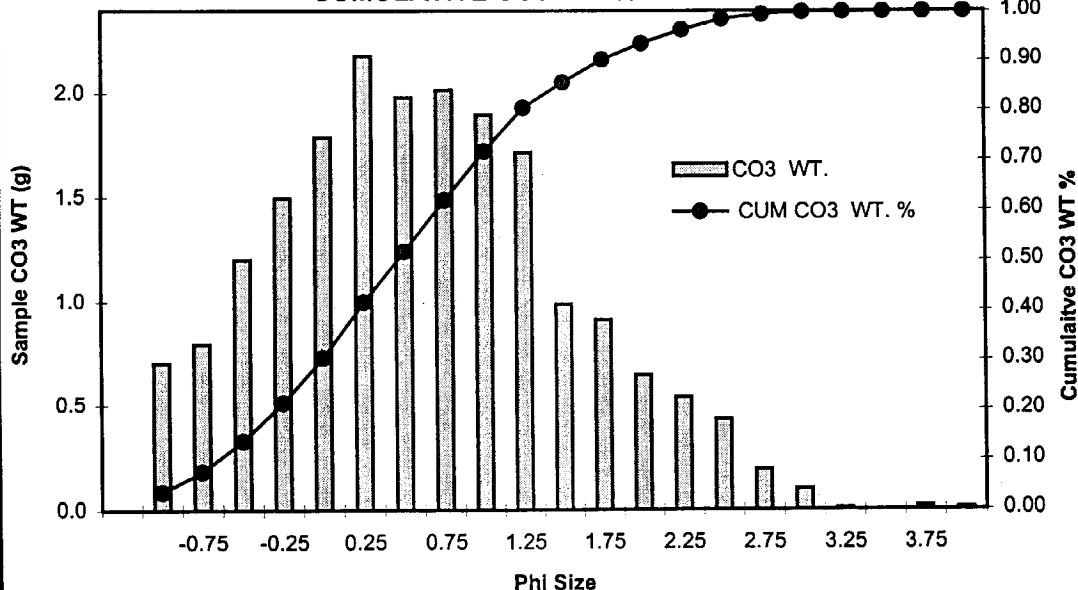
CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B8: 0 - 3.4 ft.

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.7037	0	0.7037	0.7037	0.035874142	0.035874142
-0.75	0.7971	0	0.7971	1.5008	0.040635610	0.076509752
-0.50	1.2347	0.0313	1.2034	2.7042	0.061348505	0.137858257
-0.25	1.6334	0.1363	1.4971	4.2013	0.076321129	0.214179386
0.00	2.2457	0.4582	1.7875	5.9888	0.091125521	0.305304907
0.25	3.5244	1.3442	2.1802	8.1690	0.111145097	0.416450005
0.50	4.5374	2.5587	1.9787	10.1477	0.100872766	0.517322770
0.75	5.6806	3.6673	2.0133	12.1610	0.102636650	0.619959420
1.00	6.6997	4.8053	1.8944	14.0554	0.096575210	0.716534630
1.25	5.3957	3.6814	1.7143	15.7697	0.087393836	0.803928466
1.50	3.2196	2.2320	0.9876	16.7573	0.050347169	0.854275635
1.75	3.4801	2.5693	0.9108	17.6681	0.046431958	0.900707593
2.00	2.7872	2.1415	0.6457	18.3138	0.032917342	0.933624935
2.25	2.5901	2.0508	0.5393	18.8531	0.027493143	0.961118078
2.50	2.3348	1.9010	0.4338	19.2869	0.022114826	0.983232904
2.75	1.8477	1.6547	0.1930	19.4799	0.009839007	0.993071911
3.00	1.1882	1.0881	0.1001	19.5800	0.005103029	0.998174941
3.25	0.3821	0.3735	0.0086	19.5886	0.000438422	0.998613363
3.50	0.0601	0.0598	0.0003	19.5889	0.000015294	0.998628656
3.75	0.0179	0	0.0179	19.6068	0.000912530	0.999541186
4.00	0.0090	0	0.0090	19.6158	0.000458814	1

TOTAL WT. 50.3692 grams
 CO3 WT. 19.6158 grams
 % CARBONATE 38.9440

CUMULATIVE CO3 WT. % B8: 0 - 3.4 ft.

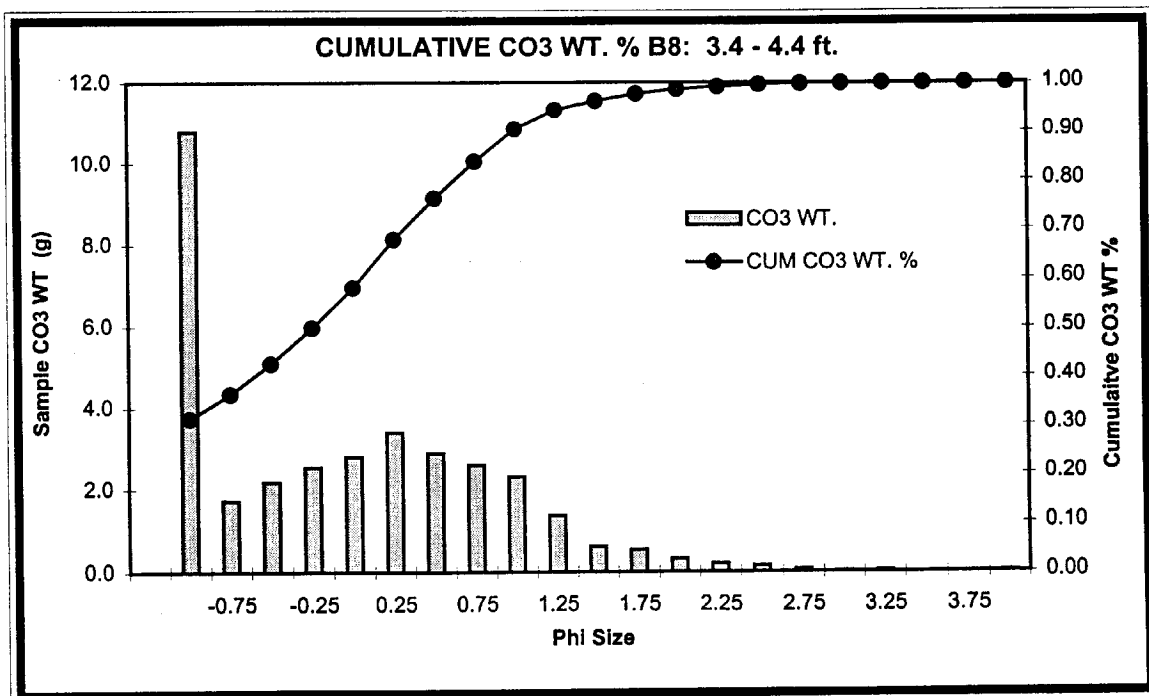


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B8: 3.4 - 4.4 ft.

PHI SIZE	TOTAL WT. DIGESTED WT.	CO ₃ WT.	CUM. CO ₃ WT.	CO ₃ WT. %	CUM CO ₃ WT. %
<-1.00	10.7825	0	10.7825	0.311852867	0.311852867
-0.75	1.7298	0	1.7298	0.050029501	0.361882368
-0.50	2.2111	0.0230	2.1881	0.063284513	0.425166881
-0.25	2.7618	0.2134	2.5484	0.073705156	0.498872037
0.00	3.2744	0.4637	2.8107	0.081291431	0.580163468
0.25	4.7128	1.3098	3.4030	0.098422009	0.678585476
0.50	5.0708	2.1834	2.8874	0.083509758	0.762095235
0.75	5.0860	2.4770	2.6090	0.075457837	0.837553072
1.00	4.3540	2.0426	2.3114	0.066850611	0.904403684
1.25	2.5350	1.1700	1.3650	0.039478708	0.943882391
1.50	1.1827	0.5676	0.6151	0.017790002	0.961672393
1.75	1.1111	0.5755	0.5356	0.015490693	0.977163086
2.00	0.7803	0.4765	0.3038	0.008786543	0.985949629
2.25	0.7089	0.5158	0.1931	0.005584863	0.991534493
2.50	0.6841	0.5352	0.1489	0.004306505	0.995840998
2.75	0.6135	0.5469	0.0666	0.001926214	0.997767212
3.00	0.5747	0.5522	0.0225	0.000650748	0.998417959
3.25	0.3427	0.3075	0.0352	0.001018059	0.999436018
3.50	0.0823	0.0785	0.0038	0.000109904	0.999545923
3.75	0.0326	0.0312	0.0014	0.000040491	0.999586414
4.00	0.0143	0.0000	0.0143	0.000413586	1

TOTAL WT. 48.6454 grams
 CO₃ WT. 34.5756 grams
 % CARBONATE 71.0768

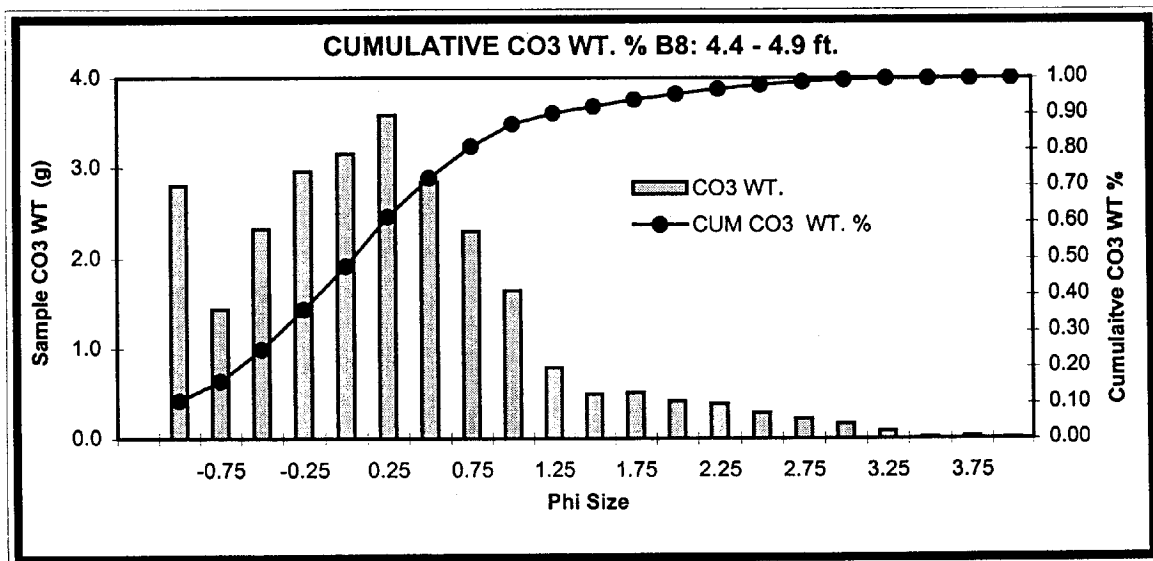


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B8: 4.4 - 4.9 ft.

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	2.8003	0	2.8003	2.8003	0.105823045	0.105823045
-0.75	1.4402	0	1.4402	4.2405	0.054425008	0.160248053
-0.50	2.3872	0.0603	2.3269	6.5674	0.087933308	0.248181361
-0.25	3.2014	0.2384	2.9630	9.5304	0.111971461	0.360152822
0.00	4.0351	0.8782	3.1569	12.6873	0.119298922	0.479451744
0.25	6.0398	2.4538	3.5860	16.2733	0.135514566	0.614966310
0.50	6.2823	3.4448	2.8375	19.1108	0.107228829	0.722195139
0.75	5.5028	3.2029	2.2999	21.4107	0.086912981	0.809108121
1.00	4.0533	2.4073	1.6460	23.0567	0.062202168	0.871310289
1.25	2.0524	1.2660	0.7864	23.8431	0.029717974	0.901028263
1.50	1.0644	0.5706	0.4938	24.3369	0.018660651	0.919688914
1.75	1.1388	0.6272	0.5116	24.8485	0.019333311	0.939022224
2.00	0.9858	0.5738	0.4120	25.2605	0.015569437	0.954591661
2.25	1.2166	0.8279	0.3887	25.6492	0.014688932	0.969280594
2.50	1.7493	1.4647	0.2846	25.9338	0.010755004	0.980035598
2.75	2.3470	2.1262	0.2208	26.1546	0.008344009	0.988379607
3.00	2.3558	2.1871	0.1687	26.3233	0.006375155	0.994754762
3.25	1.0848	1.0009	0.0839	26.4072	0.003170572	0.997925335
3.50	0.1376	0.1266	0.0110	26.4182	0.000415689	0.998341024
3.75	0.0298	0	0.0298	26.4480	0.001126139	0.999467162
4.00	0.0141	0	0.0141	26.4621	0.000532838	1

TOTAL WT. 49.9188
CO3 WT. 26.4621
% CARBONATE 53.0103

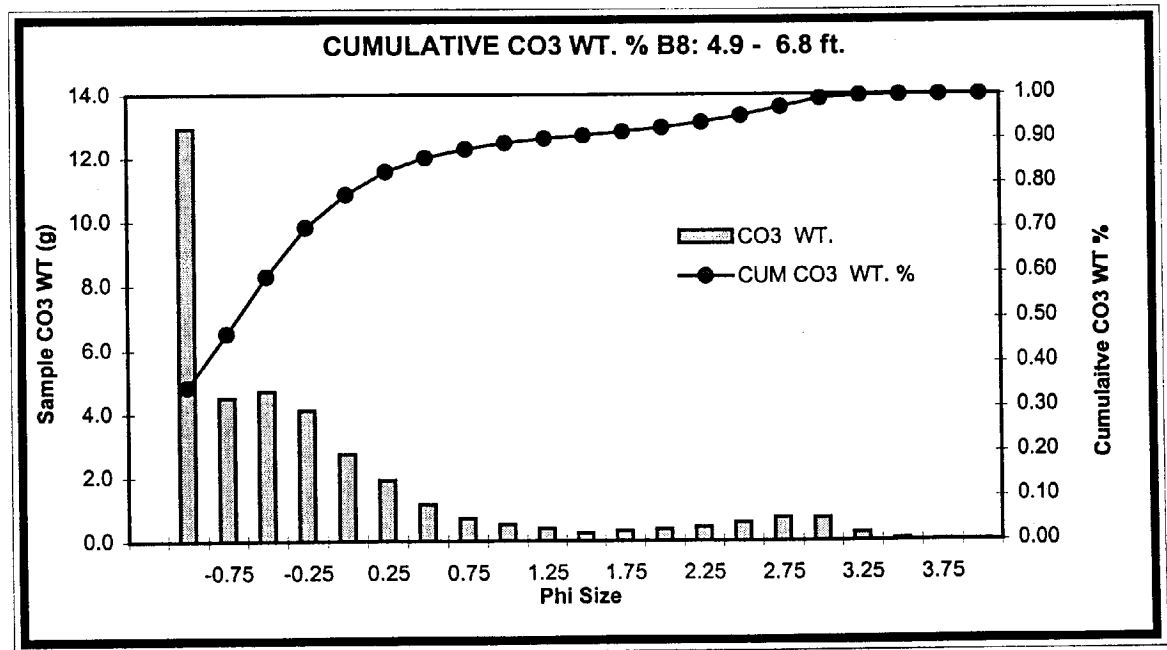


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B8: 4.9 - 6.8 ft.

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	12.9236	0	12.9236	12.9236	0.345633052	0.345633052
-0.75	4.5138	0	4.5138	17.4374	0.120718567	0.466351618
-0.50	4.7777	0.0579	4.7198	22.1572	0.126227899	0.592579518
-0.25	4.3443	0.2308	4.1135	26.2707	0.110012811	0.702592328
0.00	3.1120	0.3703	2.7417	29.0124	0.073324936	0.775917264
0.25	2.2767	0.3560	1.9207	30.9331	0.051367839	0.827285103
0.50	1.4186	0.2632	1.1554	32.0885	0.030900401	0.858185504
0.75	0.9449	0.2416	0.7033	32.7918	0.018809289	0.876994793
1.00	0.7390	0.2206	0.5184	33.3102	0.013864262	0.890859055
1.25	0.5365	0.1467	0.3898	33.7000	0.010424941	0.901283995
1.50	0.3345	0.0939	0.2406	33.9406	0.006434686	0.907718682
1.75	0.4328	0.1273	0.3055	34.2461	0.008170393	0.915889075
2.00	0.5103	0.1512	0.3591	34.6052	0.009603890	0.925492965
2.25	0.8148	0.3914	0.4234	35.0286	0.011323550	0.936816515
2.50	1.9984	1.4301	0.5683	35.5969	0.015198804	0.952015319
2.75	4.0268	3.3081	0.7187	36.3156	0.019221152	0.971236471
3.00	4.7474	4.0355	0.7119	37.0275	0.019039290	0.990275761
3.25	2.1332	1.8835	0.2497	37.2772	0.006678060	0.996953821
3.50	0.2786	0.2125	0.0661	37.3433	0.001767800	0.998721621
3.75	0.0777	0.0460	0.0317	37.3750	0.000847795	0.999569416
4.00	0.0419	0.0258	0.0161	37.3911	0.000430584	1

TOTAL WT.	50.9835
CO3 WT.	37.3911
% CARBONATE	73.3396

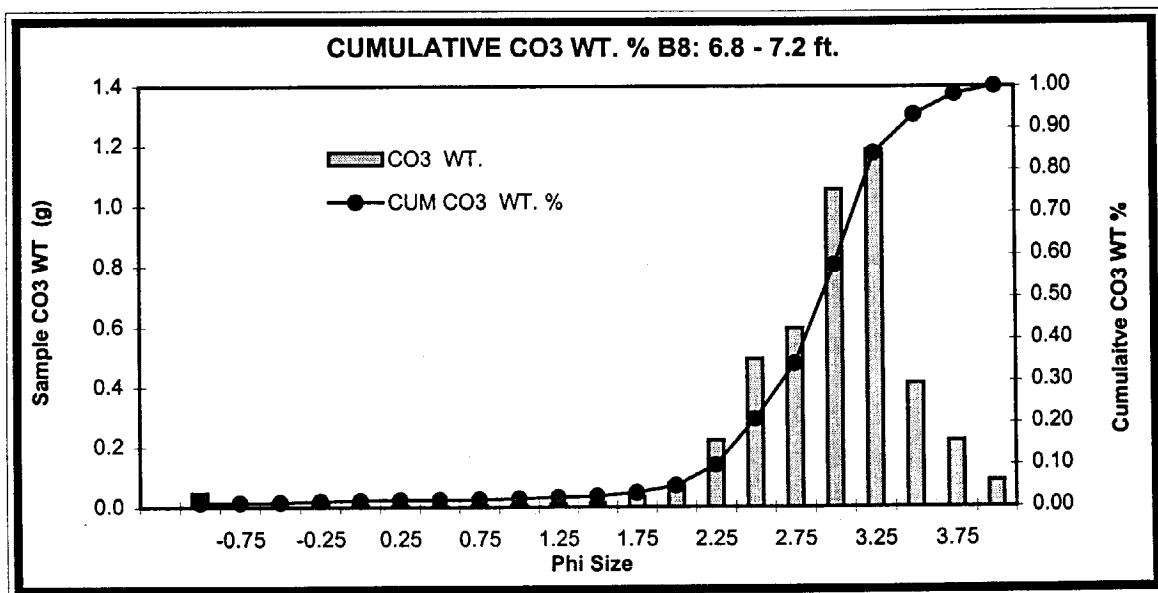


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B8: 6.8 - 7.2 ft.

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.0474	0	0.0474	0.0474	0.010539423	0.010539423
-0.75	0	0	0	0.0474	0	0.010539423
-0.50	0.0024	0	0.0024	0.0498	0.000533642	0.011073064
-0.25	0.0132	0	0.0132	0.0630	0.002935029	0.014008094
0.00	0.0086	0.0019	0.0067	0.0697	0.001489750	0.015497843
0.25	0.0084	0.0042	0.0042	0.0739	0.000933873	0.016431716
0.50	0.0101	0.0076	0.0025	0.0764	0.000555877	0.016987593
0.75	0.0115	0.0048	0.0067	0.0831	0.001489750	0.018477342
1.00	0.0168	0.0090	0.0078	0.0909	0.001734335	0.020211678
1.25	0.0167	0.0050	0.0117	0.1026	0.002601503	0.022813181
1.50	0.0192	0.0054	0.0138	0.1164	0.003068440	0.025881620
1.75	0.0474	0.0141	0.0333	0.1497	0.007404278	0.033285899
2.00	0.0921	0.0148	0.0773	0.2270	0.017187708	0.050473607
2.25	0.2518	0.0314	0.2204	0.4474	0.049006092	0.099479699
2.50	0.7099	0.2156	0.4943	0.9417	0.109907947	0.209387646
2.75	2.3312	1.7351	0.5961	1.5378	0.132543247	0.341930893
3.00	8.1029	7.0475	1.0554	2.5932	0.234668920	0.576599813
3.25	11.7416	10.5544	1.1872	3.7804	0.263974741	0.840574554
3.50	5.0657	4.6537	0.4120	4.1924	0.091608485	0.932183039
3.75	1.4721	1.2521	0.2200	4.4124	0.048917152	0.981100191
4.00	0.2703	0.1853	0.0850	4.4974	0.018899809	1

TOTAL WT. 30.2393
 CO3 WT. 4.4974
 % CARBONATE 14.8727

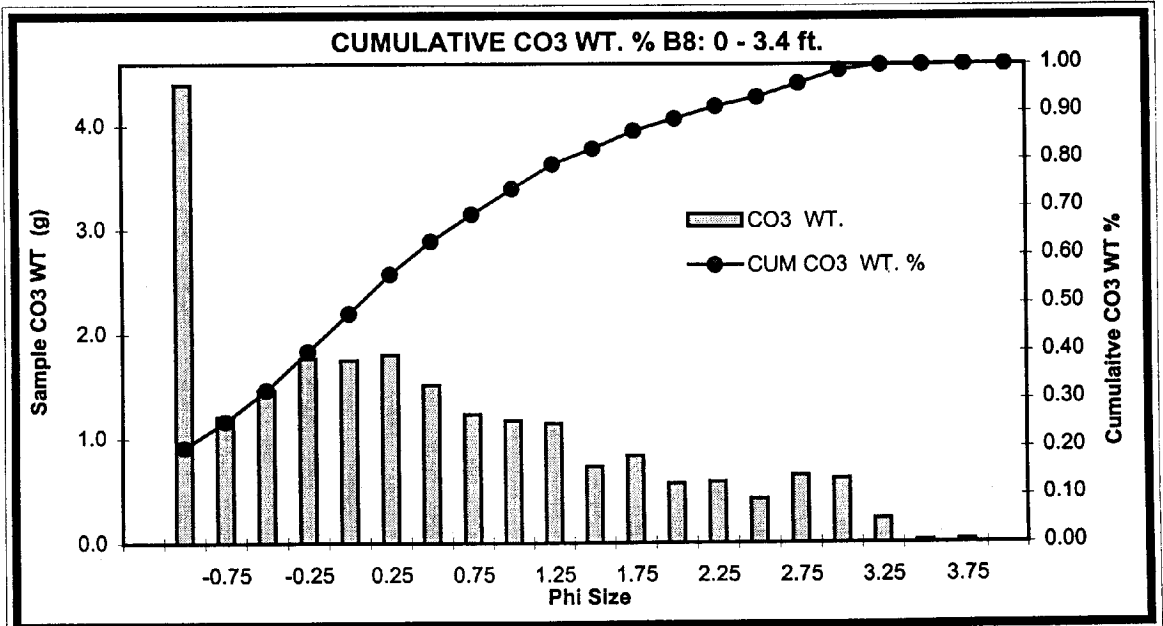


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B8: 7.2 - 7.7 ft.

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	4.4026	0	4.4026	4.4026	0.198716328	0.198716328
-0.75	1.2072	0	1.2072	5.6098	0.054488337	0.253204665
-0.50	1.4831	0.0194	1.4637	7.0735	0.066065754	0.319270420
-0.25	1.8477	0.0782	1.7695	8.8430	0.079868383	0.399138803
0.00	1.9353	0.1822	1.7531	10.5961	0.079128151	0.478266953
0.25	2.1913	0.3842	1.8071	12.4032	0.081565502	0.559832455
0.50	2.1547	0.6369	1.5178	13.9210	0.068507619	0.628340074
0.75	2.1985	0.9640	1.2345	15.1555	0.055720553	0.684060627
1.00	2.4248	1.2515	1.1733	16.3288	0.052958222	0.737018849
1.25	2.5170	1.3693	1.1477	17.4765	0.051802737	0.788821586
1.50	1.7819	1.0504	0.7315	18.2080	0.033017080	0.821838665
1.75	2.0137	1.1791	0.8346	19.0426	0.037670615	0.859509280
2.00	1.4014	0.8387	0.5627	19.6053	0.025398101	0.884907381
2.25	1.3625	0.7810	0.5815	20.1868	0.026246660	0.911154041
2.50	2.3425	1.9213	0.4212	20.6080	0.019011338	0.930165379
2.75	4.5959	3.9481	0.6478	21.2558	0.029239185	0.959404564
3.00	6.5234	5.9080	0.6154	21.8712	0.027776775	0.987181339
3.25	3.9212	3.6884	0.2328	22.1040	0.010507691	0.997689030
3.50	0.7211	0.6990	0.0221	22.1261	0.000997508	0.998686539
3.75	0.1307	0.1027	0.0280	22.1541	0.001263812	0.999950350
4.00	0.0291	0.0280	0.0011	22.1552	0.00049650	1

TOTAL WT. 47.1856
CO3 WT. 22.1552
% CARBONATE 46.9533

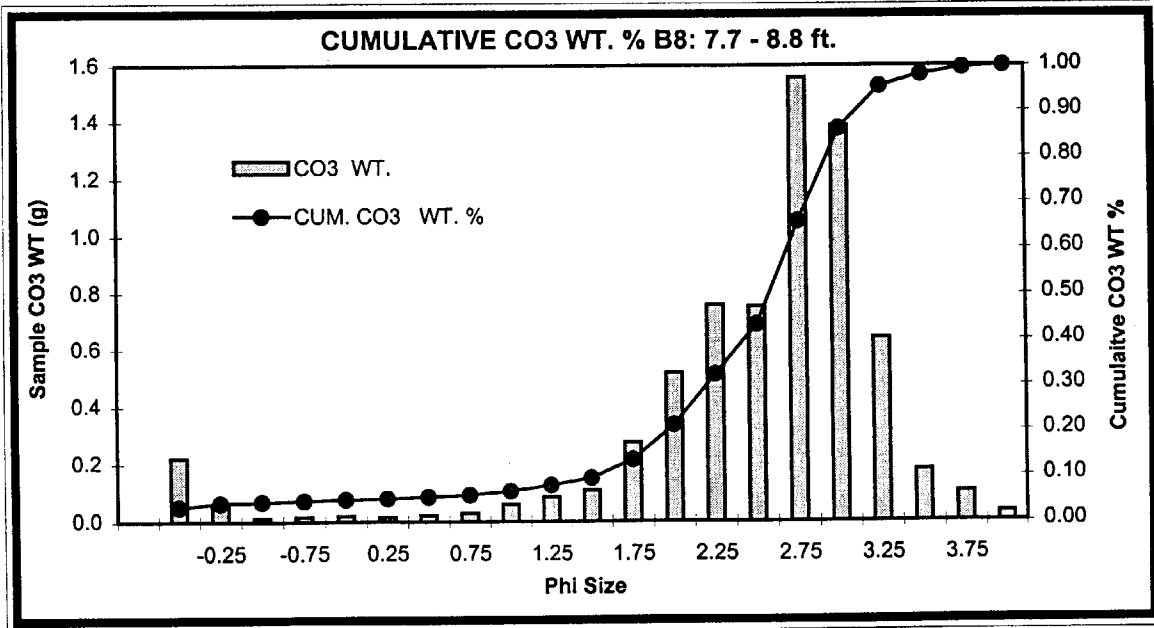


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B8: 7.7 - 8.8 ft.

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM. CO3 WT. %
-1.00	0.2207	0	0.2207	0.2207	0.032157948	0.032157948
-0.25	0.0603	0	0.0603	0.2810	0.008786245	0.040944194
-0.50	0.0129	0	0.0129	0.2939	0.001879644	0.042823838
-0.75	0.0164	0	0.0164	0.3103	0.002389626	0.045213463
0.00	0.0195	0	0.0195	0.3298	0.002841323	0.048054787
0.25	0.0205	0.0047	0.0158	0.3456	0.002302200	0.050356987
0.50	0.0309	0.0089	0.0220	0.3676	0.003205595	0.053562582
0.75	0.0383	0.0090	0.0293	0.3969	0.004269270	0.057831852
1.00	0.0747	0.0147	0.0600	0.4569	0.008742532	0.066574384
1.25	0.1106	0.0258	0.0848	0.5417	0.012356112	0.078930497
1.50	0.1471	0.0386	0.1085	0.6502	0.015809413	0.094739910
1.75	0.4137	0.1376	0.2761	0.9263	0.040230220	0.134970130
2.00	0.8396	0.3192	0.5204	1.4467	0.075826898	0.210797028
2.25	1.7083	0.9483	0.7600	2.2067	0.110738744	0.321535772
2.50	4.5039	3.7498	0.7541	2.9608	0.109879062	0.431414833
2.75	10.8610	9.3040	1.5570	4.5178	0.226868716	0.658283549
3.00	15.3589	13.9729	1.3860	5.9038	0.201952499	0.860236048
3.25	7.6126	6.9680	0.6446	6.5484	0.093923940	0.954159988
3.50	1.4330	1.2543	0.1787	6.7271	0.026038176	0.980198164
3.75	0.2752	0.1720	0.1032	6.8303	0.015037156	0.995235320
4.00	0.0830	0.0503	0.0327	6.8630	0.004764680	1

TOTAL WT. 43.8411
 CO3 WT. 6.8630
 % CARBONATE 15.6543

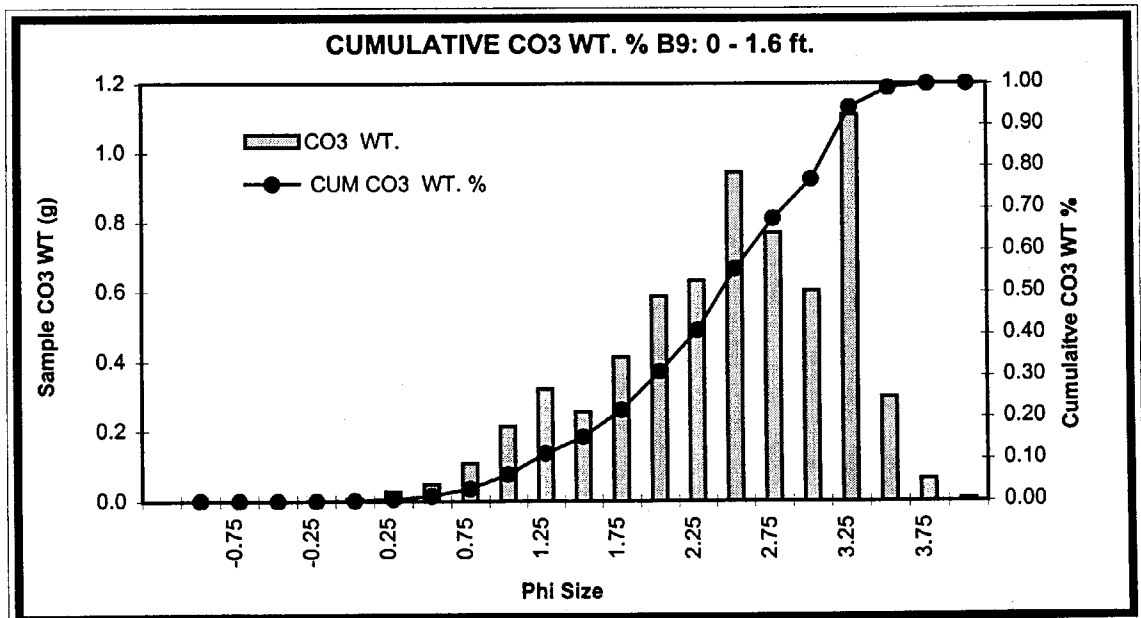


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B9: 0 -1.6 ft.

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0	0	0	0	0	0
-0.75	0	0	0	0	0	0
-0.50	0	0	0	0	0	0
-0.25	0.0016	0	0.0016	0.0016	0.000249482	0.000249482
0.00	0.0071	0	0.0071	0.0087	0.001107074	0.001356556
0.25	0.0270	0	0.0270	0.0357	0.004210001	0.005566557
0.50	0.0569	0.0086	0.0483	0.0840	0.007531224	0.013097781
0.75	0.1289	0.0207	0.1082	0.1922	0.016871190	0.029968971
1.00	0.4698	0.2552	0.2146	0.4068	0.033461712	0.063430683
1.25	1.1155	0.7932	0.3223	0.7291	0.050254939	0.113685622
1.50	1.4201	1.1646	0.2555	0.9846	0.039839084	0.153524706
1.75	2.5655	2.1512	0.4143	1.3989	0.064600128	0.218124834
2.00	2.7036	2.1170	0.5866	1.9855	0.091466172	0.309591006
2.25	2.8831	2.2501	0.6330	2.6185	0.098701137	0.408292143
2.50	4.6906	3.7474	0.9432	3.5617	0.147069371	0.555361514
2.75	10.7256	9.9558	0.7698	4.3315	0.120031809	0.675393323
3.00	20.5659	19.9626	0.6033	4.9348	0.094070135	0.769463459
3.25	10.3409	9.2309	1.1100	6.0448	0.173077823	0.942541281
3.50	3.1041	2.8054	0.2987	6.3435	0.046575086	0.989116368
3.75	0.6801	0.6171	0.0630	6.4065	0.009823336	0.998939703
4.00	0.1151	0.1083	0.0068	6.4133	0.001060297	1

TOTAL WT. 61.6014 grams
 CO3 WT. 6.4133 grams
 % CARBONATE 10.4110

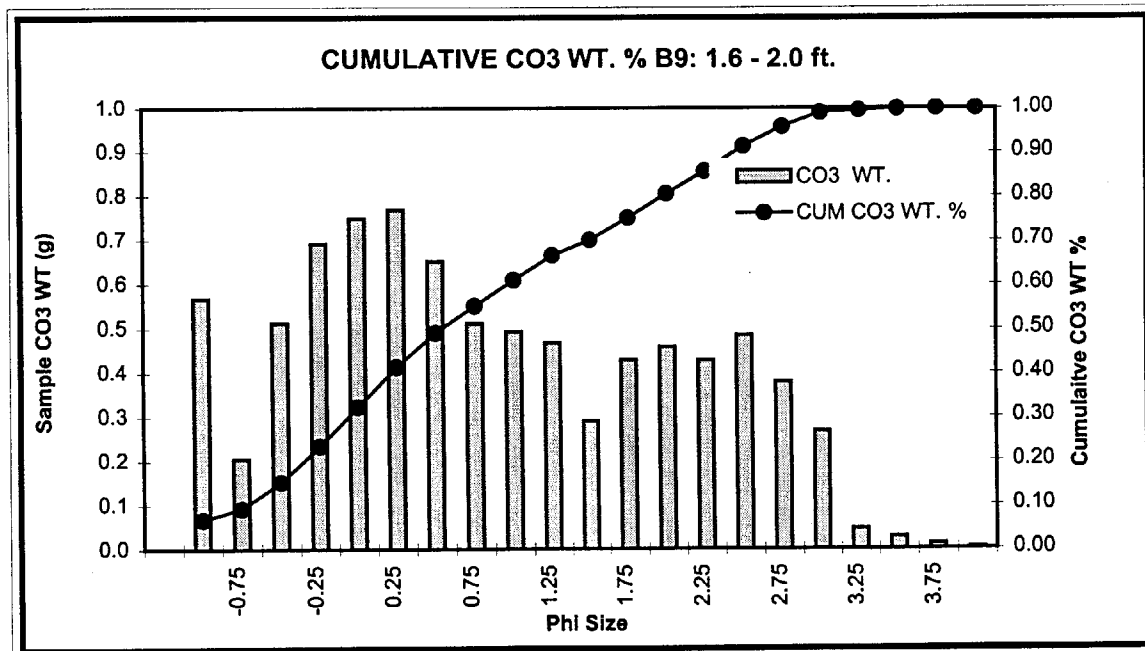


CARBONATE GRAIN SIZE DISTRIBUTION

CORE B9: 1.6 - 2.0 ft.

PHI SIZE	TOTAL WT.	DIGESTED. WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.5676	0	0.5676	0.5676	0.067196250	0.067196250
-0.75	0.2045	0	0.2045	0.7721	0.024210065	0.091406315
-0.50	0.5167	0.0042	0.5125	1.2846	0.060673146	0.152079461
-0.25	0.7080	0.0167	0.6913	1.9759	0.081840675	0.233920136
0.00	0.8724	0.1235	0.7489	2.7248	0.088659745	0.322579881
0.25	1.0535	0.2853	0.7682	3.4930	0.090944607	0.413524488
0.50	1.1006	0.4489	0.6517	4.1447	0.077152565	0.490677053
0.75	1.1234	0.6113	0.5121	4.6568	0.060625792	0.551302845
1.00	1.1049	0.6113	0.4936	5.1504	0.058435639	0.609738484
1.25	0.8686	0.4001	0.4685	5.6189	0.055464135	0.665202619
1.50	0.5418	0.2504	0.2914	5.9103	0.034497863	0.699700482
1.75	0.8626	0.4343	0.4283	6.3386	0.050704992	0.750405474
2.00	1.0152	0.5563	0.4589	6.7975	0.054327623	0.804733097
2.25	1.1858	0.7568	0.4290	7.2265	0.050787863	0.855520960
2.50	1.8227	1.3373	0.4854	7.7119	0.057464869	0.912985829
2.75	2.8581	2.4789	0.3792	8.0911	0.044892209	0.957878038
3.00	3.1185	2.8509	0.2676	8.3587	0.031680261	0.989558299
3.25	1.4594	1.4132	0.0462	8.4049	0.005469462	0.995027762
3.50	0.2380	0.2103	0.0277	8.4326	0.003279310	0.998307071
3.75	0.0630	0.0513	0.0117	8.4443	0.001385124	0.999692195
4.00	0.0174	0.0148	0.0026	8.4469	0.000307805	1

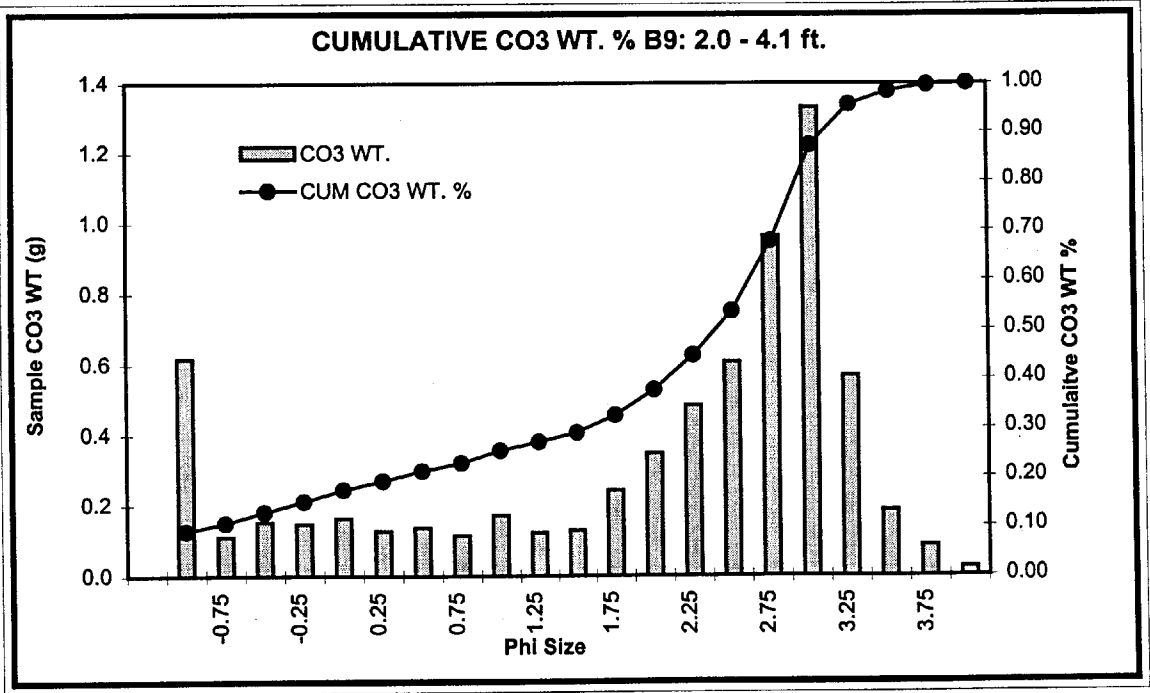
TOTAL WT. **21.3027** grams
 CO3 WT. **8.4469** grams
 % CARBONATE **39.6517812**



CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B9: 2.0 - 4.1 ft.

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.6177	0	0.6177	0.6177	0.090522737	0.090522737
-0.75	0.1097	0	0.1097	0.7274	0.016076322	0.106599059
-0.50	0.1516	0	0.1516	0.8790	0.022216686	0.128815745
-0.25	0.1495	0.0027	0.1468	1.0258	0.021513255	0.150329000
0.00	0.1747	0.0125	0.1622	1.1880	0.023770095	0.174099096
0.25	0.1525	0.0268	0.1257	1.3137	0.018421091	0.192520187
0.50	0.1849	0.0486	0.1363	1.4500	0.019974501	0.212494688
0.75	0.1995	0.0867	0.1128	1.5628	0.016530621	0.229025309
1.00	0.2800	0.1089	0.1711	1.7339	0.025074373	0.254099682
1.25	0.2378	0.1165	0.1213	1.8552	0.017776280	0.271875962
1.50	0.2211	0.0922	0.1289	1.9841	0.018890045	0.290766007
1.75	0.4165	0.1751	0.2414	2.2255	0.035376702	0.326142709
2.00	0.5919	0.2439	0.3480	2.5735	0.050998725	0.377141434
2.25	0.9345	0.4504	0.4841	3.0576	0.070943916	0.448085350
2.50	2.4366	1.8291	0.6075	3.6651	0.089027947	0.537113296
2.75	6.6641	5.6992	0.9649	4.6300	0.141404224	0.678517520
3.00	13.1725	11.8405	1.3320	5.9620	0.195202017	0.873719536
3.25	8.8404	8.2731	0.5673	6.5293	0.083136715	0.956856251
3.50	2.3835	2.1982	0.1853	6.7146	0.027155356	0.984011607
3.75	0.5467	0.4615	0.0852	6.7998	0.012485895	0.996497501
4.00	0.0915	0.0676	0.0239	6.8237	0.003502499	1
TOTAL WT.		38.5572	grams			
CO3 WT.		6.8237	grams			
% CARBONATE		17.6976				

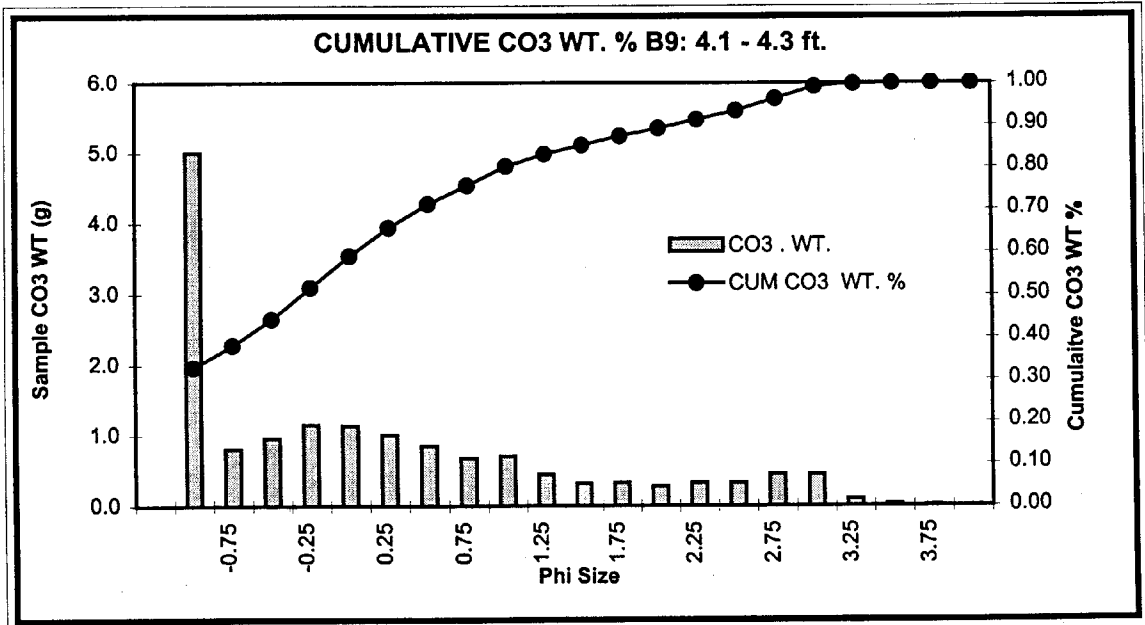


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B9: 4.1 - 4.3 ft.

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 . WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	5.0081	0	5.0081	5.0081	0.327008338	0.327008338
-0.75	0.8084	0	0.8084	5.8165	0.052785196	0.379793534
-0.50	0.9771	0.0213	0.9558	6.7723	0.062409810	0.442203344
-0.25	1.2536	0.1037	1.1499	7.9222	0.075083742	0.517287086
0.00	1.3285	0.1933	1.1352	9.0574	0.074123892	0.591410979
0.25	1.4520	0.4476	1.0044	10.0618	0.065583190	0.656994169
0.50	1.5683	0.7134	0.8549	10.9167	0.055821455	0.712815624
0.75	1.6443	0.9662	0.6781	11.5948	0.044277142	0.757092766
1.00	1.9282	1.2299	0.6983	12.2931	0.045596119	0.802688885
1.25	1.5538	1.1129	0.4409	12.7340	0.028788957	0.831477842
1.50	1.0477	0.7301	0.3176	13.0516	0.020737974	0.852215816
1.75	1.4282	1.0999	0.3283	13.3799	0.021436640	0.873652456
2.00	1.2764	1.0035	0.2729	13.6528	0.017819248	0.891471704
2.25	1.1689	0.8463	0.3226	13.9754	0.021064454	0.912536158
2.50	1.7808	1.4616	0.3192	14.2946	0.020842448	0.933378605
2.75	3.2865	2.8418	0.4447	14.7393	0.029037082	0.962415687
3.00	3.8662	3.4262	0.4400	15.1793	0.028730191	0.991145878
3.25	1.7930	1.6964	0.0966	15.2759	0.006307583	0.997453460
3.50	0.2987	0.2760	0.0227	15.2986	0.001482217	0.998935677
3.75	0.0743	0.0635	0.0108	15.3094	0.000705196	0.999640873
4.00	0.0237	0.0182	0.0055	15.3149	0.000359127	1

TOTAL WT. 33.5667 grams
 CO3 WT. 15.3149 grams
 % CARBONATE 45.6253

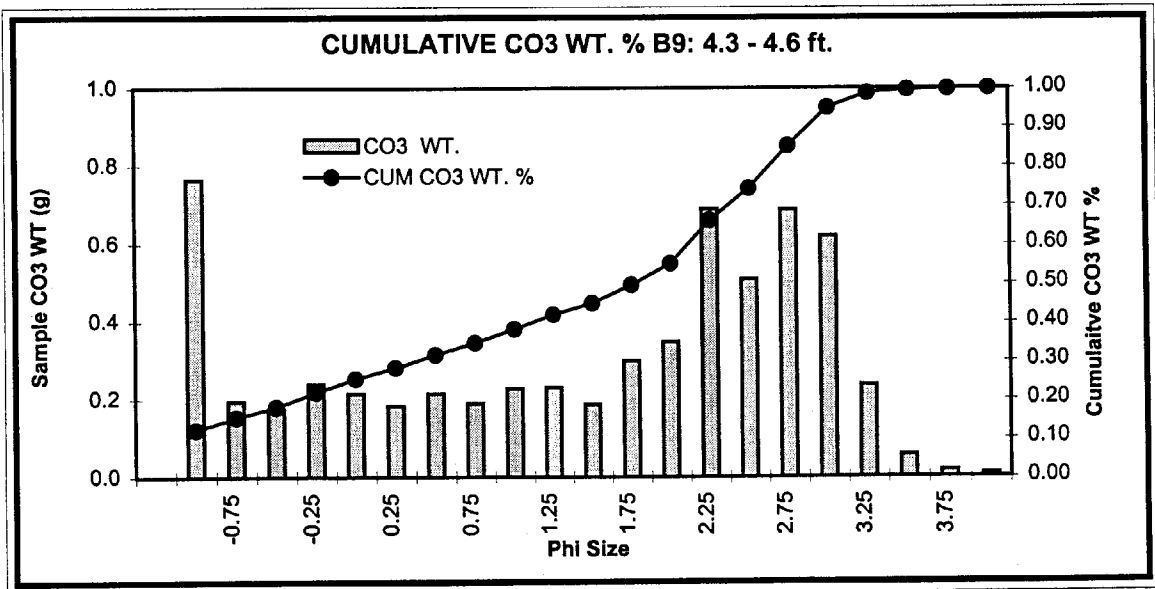


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B9: 4.3 - 4.6 ft.

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.7645	0	0.7645	0.7645	0.121518947	0.121518947
-0.75	0.1945	0	0.1945	0.9590	0.030916200	0.152435148
-0.50	0.1740	0	0.1740	1.1330	0.027657681	0.180092828
-0.25	0.2390	0	0.2390	1.3720	0.037989573	0.218082401
0.00	0.2344	0.0193	0.2151	1.5871	0.034190615	0.252273016
0.25	0.2354	0.0521	0.1833	1.7704	0.029135936	0.281408952
0.50	0.3046	0.0900	0.2146	1.9850	0.034111139	0.315520092
0.75	0.3280	0.1382	0.1898	2.1748	0.030169125	0.345689217
1.00	0.4560	0.2292	0.2268	2.4016	0.036050356	0.381739573
1.25	0.5203	0.2896	0.2307	2.6323	0.036670270	0.418409842
1.50	0.4656	0.2795	0.1861	2.8184	0.029581002	0.447990844
1.75	0.8912	0.5926	0.2986	3.1170	0.047463123	0.495453967
2.00	1.0409	0.6922	0.3487	3.4657	0.055426628	0.550880595
2.25	1.5873	0.8985	0.6888	4.1545	0.109486267	0.660366862
2.50	2.4529	1.9438	0.5091	4.6636	0.080922558	0.741289420
2.75	4.7959	4.1082	0.6877	5.3513	0.109311419	0.850600839
3.00	6.0861	5.4653	0.6208	5.9721	0.098677518	0.949278357
3.25	3.1908	2.9547	0.2361	6.2082	0.037528611	0.986806968
3.50	0.5568	0.4998	0.0570	6.2652	0.009060275	0.995867243
3.75	0.1242	0.1071	0.0171	6.2823	0.002718082	0.998585326
4.00	0.0329	0.0240	0.0089	6.2912	0.001414674	1

TOTAL WT. 24.6753 grams
 CO3 WT. 6.2912 grams
 % CARBONATE 25.4959

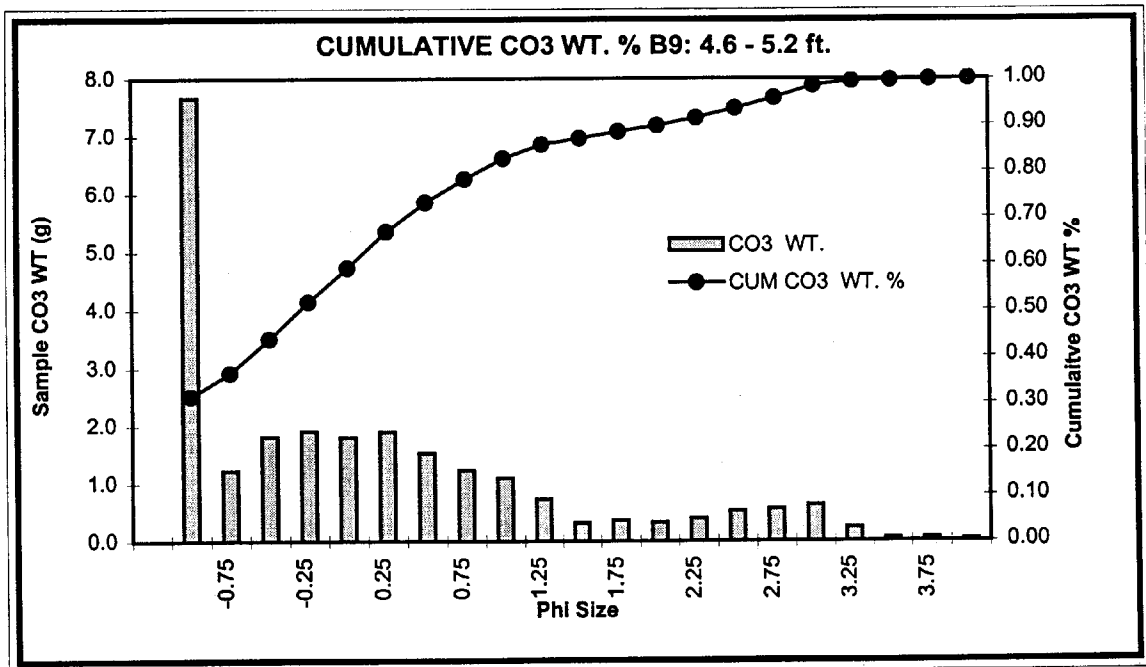


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B9: 4.6 - 5.2 ft.

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	7.6665	0	7.6665	7.6665	0.314574699	0.314574699
-0.75	1.2379	0.0082	1.2297	8.8962	0.050457511	0.365032210
-0.50	1.8430	0.0323	1.8107	10.7069	0.074297321	0.439329531
-0.25	2.0708	0.1582	1.9126	12.6195	0.078478520	0.517808051
0.00	2.2647	0.4646	1.8001	14.4196	0.073862377	0.591670428
0.25	2.8201	0.9224	1.8977	16.3173	0.077867137	0.669537565
0.50	3.0929	1.5663	1.5266	17.8439	0.062640023	0.732177588
0.75	3.1310	1.9015	1.2295	19.0734	0.050449305	0.782626893
1.00	3.1498	2.0595	1.0903	20.1637	0.044737598	0.827364491
1.25	1.9246	1.1918	0.7328	20.8965	0.030068524	0.857433015
1.50	0.8294	0.5182	0.3112	21.2077	0.012769275	0.870202290
1.75	0.9081	0.5474	0.3607	21.5684	0.014800377	0.885002667
2.00	0.7882	0.4604	0.3278	21.8962	0.013450412	0.898453079
2.25	0.8940	0.5023	0.3917	22.2879	0.016072381	0.914525461
2.50	1.6459	1.1267	0.5192	22.8071	0.021304009	0.935829469
2.75	3.4494	2.8931	0.5563	23.3634	0.022826310	0.958655779
3.00	4.9987	4.3687	0.6300	23.9934	0.025850396	0.984506175
3.25	3.1387	2.9022	0.2365	24.2299	0.009704157	0.994210332
3.50	0.6381	0.5841	0.0540	24.2839	0.002215748	0.996426080
3.75	0.1965	0.1413	0.0552	24.3391	0.002264987	0.998691067
4.00	0.0716	0.0397	0.0319	24.3710	0.001308933	1

TOTAL WT. 46.7599 grams
 CO3 WT. 24.3710 grams
 % CARBONATE 52.1194

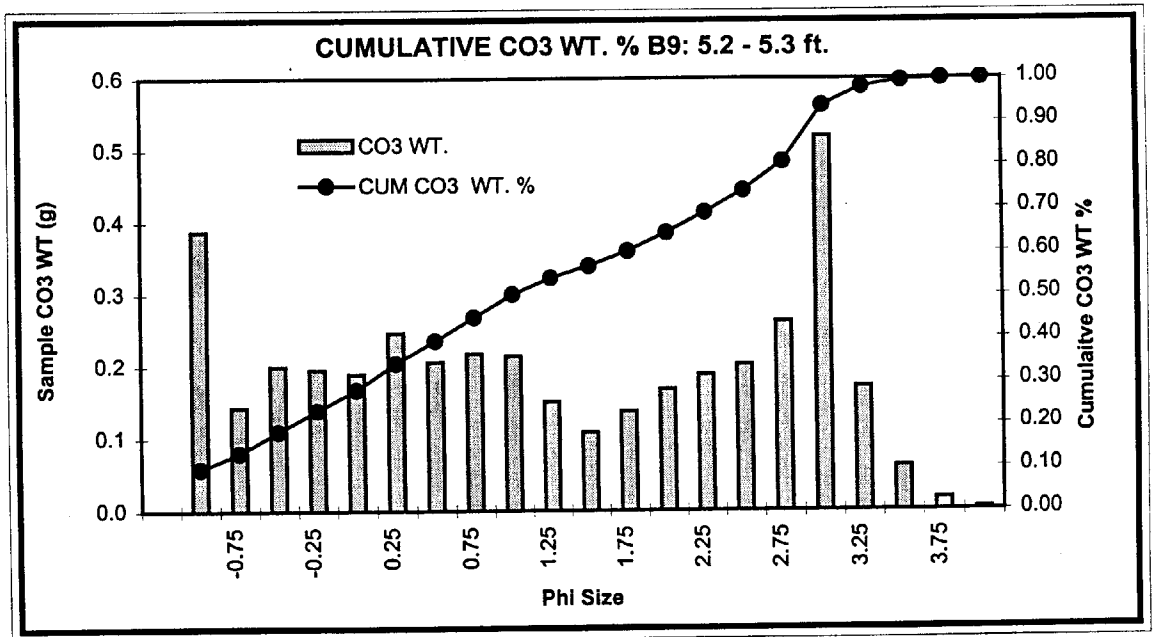


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B9: 5.2 - 5.3 ft.

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.3869	0	0.3869	0.3869	0.096972279	0.096972279
-0.75	0.1434	0	0.1434	0.5303	0.035941651	0.132913931
-0.50	0.1995	0	0.1995	0.7298	0.050002506	0.182916437
-0.25	0.2004	0.0050	0.1954	0.9252	0.048974886	0.231891323
0.00	0.2349	0.0453	0.1896	1.1148	0.047521179	0.279412502
0.25	0.3298	0.0835	0.2463	1.3611	0.061732418	0.341144920
0.50	0.3775	0.1712	0.2063	1.5674	0.051706852	0.392851772
0.75	0.4493	0.2321	0.2172	1.7846	0.054438819	0.447290591
1.00	0.5364	0.3218	0.2146	1.9992	0.053787157	0.501077748
1.25	0.4655	0.3145	0.1510	2.1502	0.037846509	0.538924257
1.50	0.3584	0.2505	0.1079	2.2581	0.027043962	0.565968219
1.75	0.5937	0.4563	0.1374	2.3955	0.034437816	0.600406035
2.00	0.7195	0.5515	0.1680	2.5635	0.042107374	0.642513409
2.25	0.8460	0.6576	0.1884	2.7519	0.047220412	0.689733821
2.50	1.4427	1.2402	0.2025	2.9544	0.050754424	0.740488245
2.75	3.2490	2.9863	0.2627	3.2171	0.065842899	0.806331144
3.00	5.4705	4.9509	0.5196	3.7367	0.130232092	0.936563236
3.25	3.9808	3.8083	0.1725	3.9092	0.043235250	0.979798486
3.50	0.8892	0.8282	0.0610	3.9702	0.015288987	0.995087473
3.75	0.1580	0.1413	0.0167	3.9869	0.004185673	0.999273147
4.00	0.0204	0.0175	0.0029	3.9898	0.000726853	1

TOTAL WT. 21.0518 grams
 CO3 WT. 3.9898 grams
 % CARBONATE 18.9523

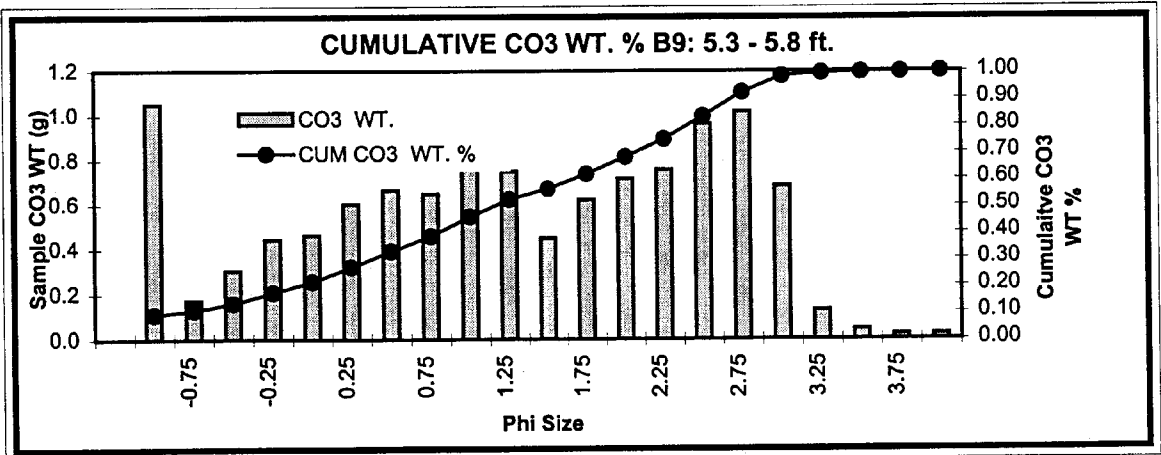


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B9: 5.3 - 5.8 ft.

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	1.0521	0	1.0521	1.0521	0.092575320	0.092575320
-0.75	0.1733	0	0.1733	1.2254	0.015248839	0.107824159
-0.50	0.3039	0	0.3039	1.5293	0.026740462	0.134564621
-0.25	0.4631	0.0194	0.4437	1.9730	0.039041602	0.173606223
0.00	0.5406	0.0762	0.4644	2.4374	0.040863016	0.214469238
0.25	0.8261	0.2223	0.6038	3.0412	0.053128960	0.267598198
0.50	1.1760	0.5117	0.6643	3.7055	0.058452414	0.326050612
0.75	1.6937	1.0440	0.6497	4.3552	0.057167746	0.383218358
1.00	2.3571	1.5325	0.8246	5.1798	0.072557370	0.455775729
1.25	2.2750	1.5235	0.7515	5.9313	0.066125229	0.521900957
1.50	1.5637	1.1127	0.4510	6.3823	0.039683936	0.561584894
1.75	2.3256	1.7028	0.6228	7.0051	0.054800788	0.616385682
2.00	2.3769	1.6594	0.7175	7.7226	0.063133535	0.679519217
2.25	2.3879	1.6304	0.7575	8.4801	0.066653175	0.746172392
2.50	3.5746	2.6108	0.9638	9.4439	0.084805716	0.830978108
2.75	6.2385	5.2205	1.0180	10.4619	0.089574828	0.920552935
3.00	8.1028	7.4165	0.6863	11.1482	0.060388216	0.980941152
3.25	4.6804	4.5512	0.1292	11.2774	0.011368436	0.992309587
3.50	0.9444	0.9011	0.0433	11.3207	0.003810010	0.996119597
3.75	0.1945	0.1723	0.0222	11.3429	0.001953400	0.998072997
4.00	0.0554	0.0335	0.0219	11.3648	0.001927003	1

TOTAL WT. **43.3056** grams
 CO3 WT. **11.3648** grams
 % CARBONATE **26.2433**

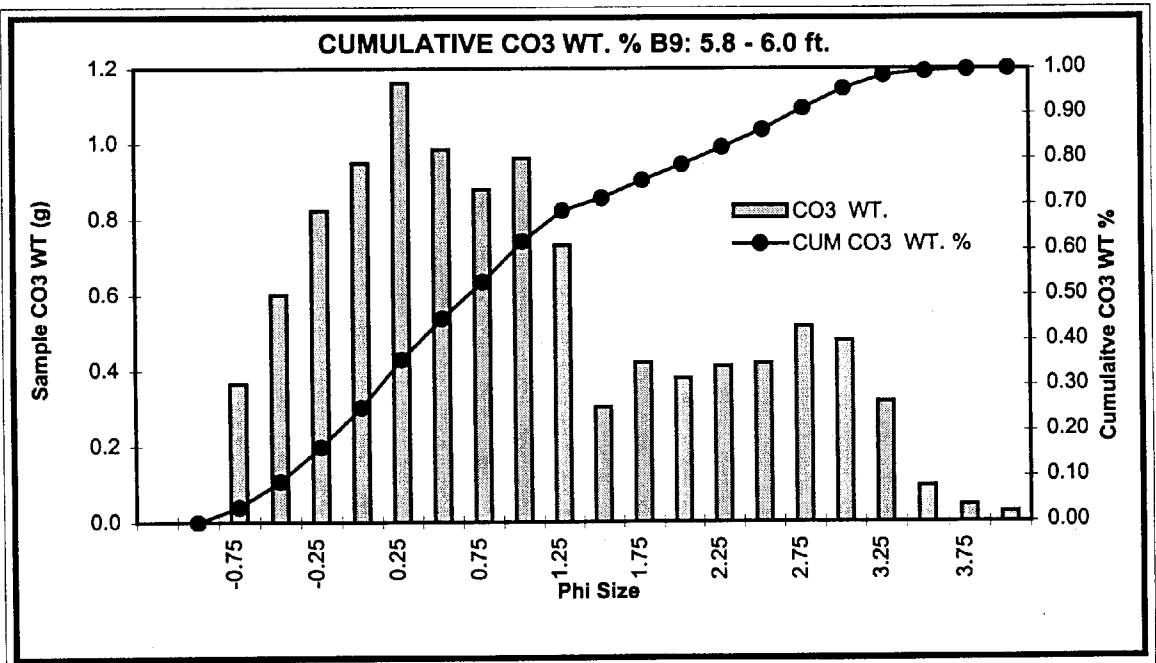


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B9: 5.8 - 6.0 ft.

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	2.2339	0	0	0	0	0
-0.75	0.3745	0.0091	0.3654	0.3654	0.033592586	0.033592586
-0.50	0.6082	0.0053	0.6029	0.9683	0.055426848	0.089019435
-0.25	0.8587	0.0355	0.8232	1.7915	0.075679850	0.164699285
0.00	1.1283	0.1800	0.9483	2.7398	0.087180760	0.251880045
0.25	1.7673	0.6059	1.1614	3.9012	0.106771839	0.358651884
0.50	2.0286	1.0435	0.9851	4.8863	0.090563922	0.449215805
0.75	2.3812	1.5029	0.8783	5.7646	0.080745399	0.529961204
1.00	2.6910	1.7302	0.9608	6.7254	0.088329932	0.618291136
1.25	2.0665	1.3347	0.7318	7.4572	0.067277107	0.685568242
1.50	0.9756	0.6723	0.3033	7.7605	0.027883502	0.713451744
1.75	1.1880	0.7672	0.4208	8.1813	0.038685715	0.752137459
2.00	1.0431	0.6620	0.3811	8.5624	0.035035946	0.787173405
2.25	1.1223	0.7104	0.4119	8.9743	0.037867505	0.825040911
2.50	1.8490	1.4288	0.4202	9.3945	0.038630555	0.863671466
2.75	3.5652	3.0479	0.5173	9.9118	0.047557321	0.911228786
3.00	5.0949	4.6141	0.4808	10.3926	0.044201739	0.955430526
3.25	3.6834	3.3640	0.3194	10.7120	0.029363635	0.984794160
3.50	0.9184	0.8232	0.0952	10.8072	0.008752091	0.993546252
3.75	0.2585	0.2139	0.0446	10.8518	0.004100245	0.997646496
4.00	0.0722	0.0466	0.0256	10.8774	0.002353504	1

TOTAL WT. 35.9088 grams
CO3 WT. 10.8774 grams
% CARBONATE 30.2917

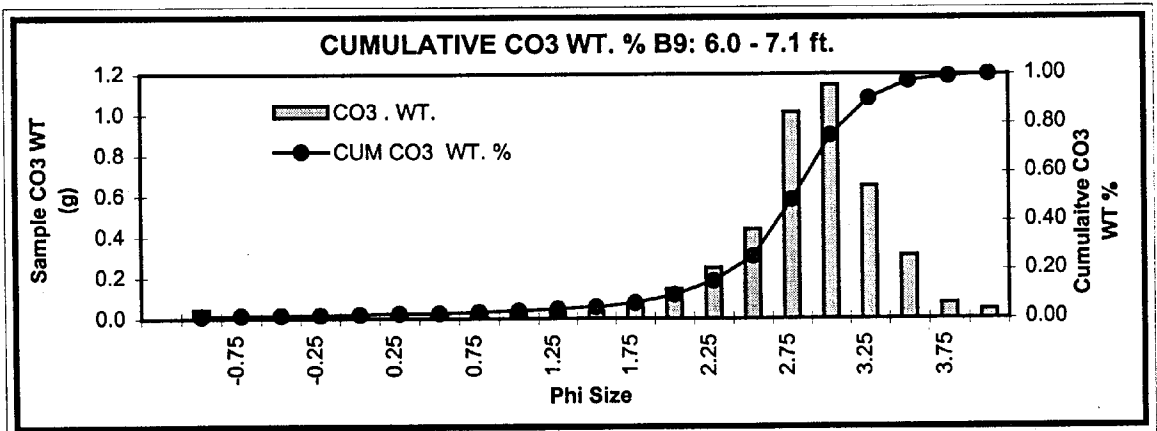


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B9: 6.0 - 7.1 ft.

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO ₃ . WT.	CUM. CO ₃ WT.	CO ₃ WT. %	CUM CO ₃ WT. %
<-1.00	0.0417	0	0.0417	0.0417	0.009604754	0.009604754
-0.75	0.0108	0	0.0108	0.0525	0.002487562	0.012092316
-0.50	0.0020	0	0.0020	0.0545	0.000460660	0.012552976
-0.25	0.0086	0	0.0086	0.0631	0.001980837	0.014533812
0.00	0.0126	0	0.0126	0.0757	0.002902156	0.017435968
0.25	0.0234	0.0106	0.0128	0.0885	0.002948222	0.020384190
0.50	0.0266	0.0161	0.0105	0.0990	0.002418463	0.022802653
0.75	0.0366	0.0180	0.0186	0.1176	0.004284135	0.027086788
1.00	0.0481	0.0223	0.0258	0.1434	0.005942510	0.033029298
1.25	0.0637	0.0334	0.0303	0.1737	0.006978994	0.040008292
1.50	0.0632	0.0320	0.0312	0.2049	0.007186291	0.047194583
1.75	0.1551	0.0868	0.0683	0.2732	0.015731528	0.062926110
2.00	0.3161	0.1722	0.1439	0.4171	0.033144463	0.096070573
2.25	0.7193	0.4715	0.2478	0.6649	0.057075732	0.153146306
2.50	2.2638	1.8252	0.4386	1.1035	0.101022664	0.254168970
2.75	6.3190	5.3061	1.0129	2.1164	0.233301087	0.487470057
3.00	12.5979	11.4513	1.1466	3.2630	0.264096186	0.751566243
3.25	11.0826	10.4312	0.6514	3.9144	0.150036853	0.901603096
3.50	4.4375	4.1280	0.3095	4.2239	0.071287083	0.972890179
3.75	1.3670	1.2911	0.0759	4.2998	0.017482034	0.990372213
4.00	0.2416	0.1998	0.0418	4.3416	0.009627787	1

TOTAL WT. 39.8372 grams
CO₃ WT. 4.3416 grams
% CARBONATE 10.8984

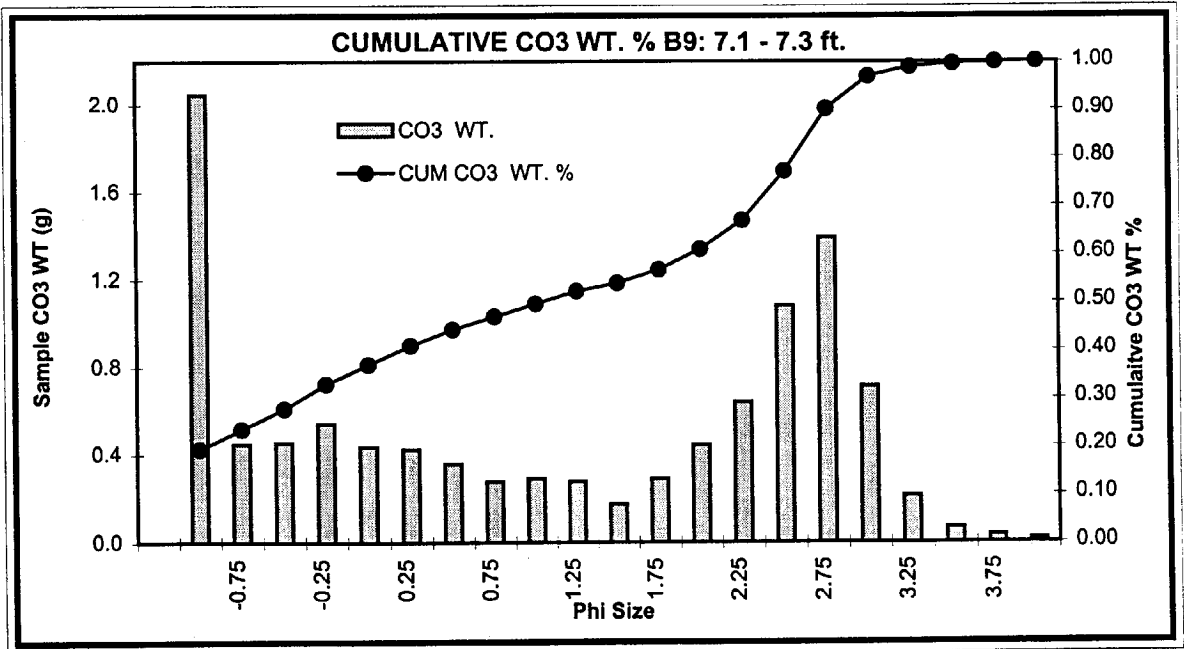


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B9: 7.1 - 7.3 ft.

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	2.0464	0	2.0464	2.0464	0.192607791	0.192607791
-0.75	0.4474	0	0.4474	2.4938	0.042109424	0.234717216
-0.50	0.4850	0.0301	0.4549	2.9487	0.042815327	0.277532542
-0.25	0.6377	0.0952	0.5425	3.4912	0.051060265	0.328592807
0.00	0.6452	0.2076	0.4376	3.9288	0.041187045	0.369779853
0.25	0.7825	0.3582	0.4243	4.3531	0.039935245	0.409715098
0.50	0.8400	0.4837	0.3563	4.7094	0.033535065	0.443250162
0.75	0.8228	0.5454	0.2774	4.9868	0.026108972	0.469359135
1.00	0.8658	0.5769	0.2889	5.2757	0.027191356	0.496550491
1.25	0.6452	0.3684	0.2768	5.5525	0.026052500	0.522602991
1.50	0.4490	0.2750	0.1740	5.7265	0.016376933	0.538979924
1.75	0.7542	0.4632	0.2910	6.0175	0.027389009	0.566368933
2.00	1.1415	0.6981	0.4434	6.4609	0.041732943	0.608101876
2.25	1.9685	1.3272	0.6413	7.1022	0.060359351	0.668461227
2.50	4.6847	3.6014	1.0833	8.1855	0.101960526	0.770421753
2.75	9.7519	8.3588	1.3931	9.5786	0.131118996	0.901540749
3.00	11.9684	11.2534	0.7150	10.2936	0.067296018	0.968836767
3.25	6.1734	5.9610	0.2124	10.5060	0.019991153	0.988827920
3.50	1.2624	1.1947	0.0677	10.5737	0.006371945	0.995199864
3.75	0.2662	0.2329	0.0333	10.6070	0.003134206	0.998334071
4.00	0.0608	0.0431	0.0177	10.6247	0.001665929	1

TOTAL WT. 46.6990 grams
CO3 WT. 10.6247 grams
% CARBONATE 22.7515

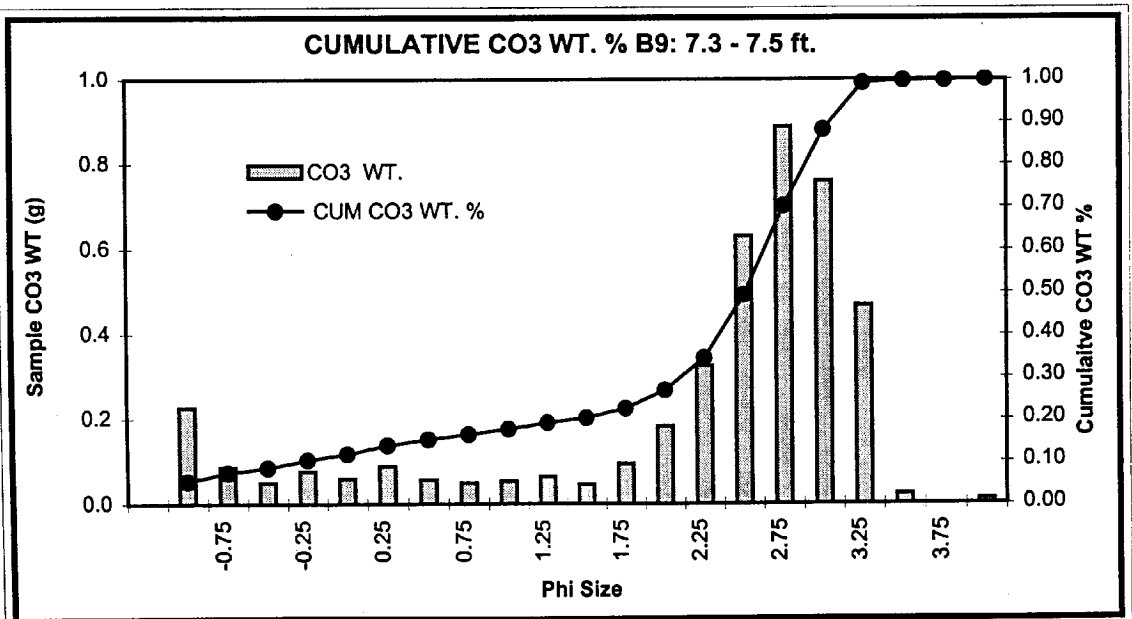


CARBONATE GRAIN SIZE DISTRIBUTION

CORE B9: 7.3 - 7.5 ft.

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.2257	0	0.2257	0.2257	0.053247458	0.053247458
-0.75	0.0857	0	0.0857	0.3114	0.020218463	0.073465921
-0.50	0.0495	0	0.0495	0.3609	0.011678109	0.085144030
-0.25	0.0819	0.0065	0.0754	0.4363	0.017788473	0.102932503
0.00	0.0935	0.0339	0.0596	0.4959	0.014060915	0.116993418
0.25	0.1253	0.0366	0.0887	0.5846	0.020926227	0.137919645
0.50	0.1323	0.0748	0.0575	0.6421	0.013565480	0.151485125
0.75	0.1257	0.0755	0.0502	0.6923	0.011843254	0.163328379
1.00	0.1466	0.0931	0.0535	0.7458	0.012621794	0.175950173
1.25	0.1398	0.0765	0.0633	0.8091	0.014933824	0.190883997
1.50	0.1056	0.0591	0.0465	0.8556	0.010970345	0.201854342
1.75	0.2079	0.1141	0.0938	0.9494	0.022129426	0.223983769
2.00	0.3959	0.2132	0.1827	1.1321	0.043102838	0.267086607
2.25	0.9183	0.5934	0.3249	1.4570	0.076650860	0.343737467
2.50	3.1057	2.4753	0.6304	2.0874	0.148724845	0.492462312
2.75	8.2055	7.3173	0.8882	2.9756	0.209545379	0.702007691
3.00	13.1527	12.3927	0.7600	3.7356	0.179300257	0.881307948
3.25	8.7782	8.3091	0.4691	4.2047	0.110670725	0.991978673
3.50	2.4265	2.4028	0.0237	4.2284	0.005591337	0.997570010
3.75	0.5130	0.5130	0.0000	4.2284	0	0.99757001
4.00	0.0728	0.0625	0.0103	4.2387	0.002429990	1

TOTAL WT. 39.0881 grams
CO3 WT. 4.2387 grams
% CARBONATE 10.8440

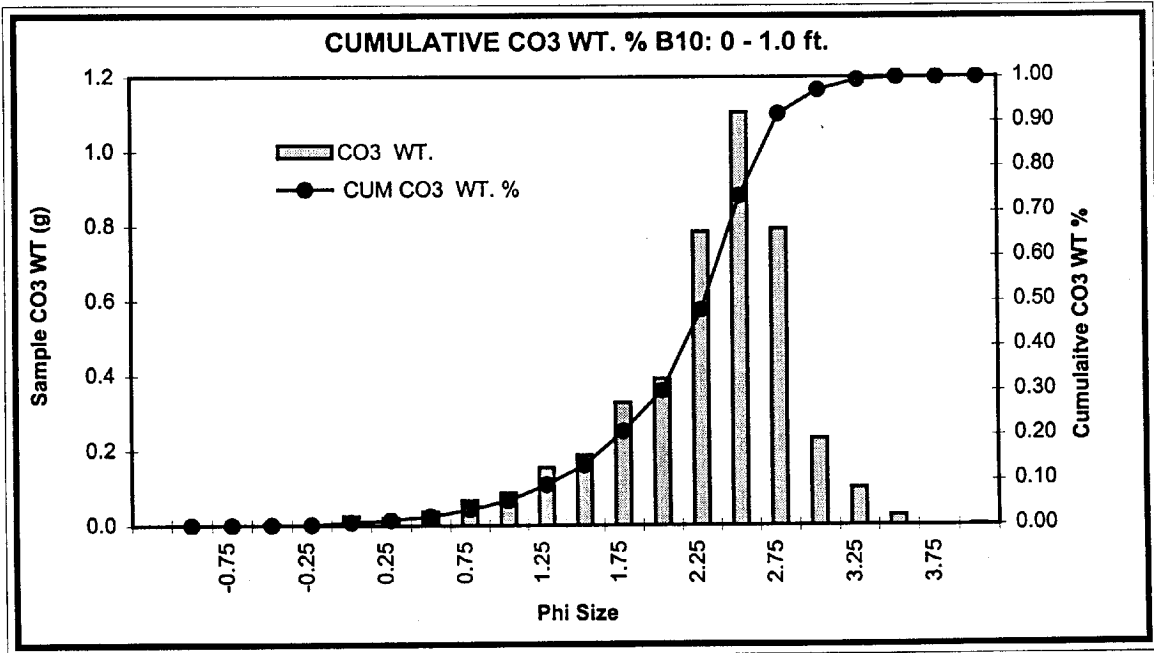


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B10: 0- 1.0 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0	0	0	0	0	0
-0.75	0	0	0	0	0	0
-0.50	0.0040	0	0.0040	0.0040	0.000922573	0.000922573
-0.25	0.0010	0	0.0010	0.0050	0.000230643	0.001153216
0.00	0.0332	0.0081	0.0251	0.0301	0.005789146	0.006942362
0.25	0.0443	0.0244	0.0199	0.0500	0.004589801	0.011532163
0.50	0.0824	0.0466	0.0358	0.0858	0.008257029	0.019789192
0.75	0.1506	0.0847	0.0659	0.1517	0.015199391	0.034988583
1.00	0.3383	0.2522	0.0861	0.2378	0.019858385	0.054846968
1.25	0.5806	0.4266	0.1540	0.3918	0.035519063	0.090366031
1.50	0.6851	0.4988	0.1863	0.5781	0.042968840	0.133334871
1.75	1.6344	1.3079	0.3265	0.9046	0.075305026	0.208639897
2.00	3.0415	2.6508	0.3907	1.2953	0.090112323	0.298752220
2.25	5.6807	4.8968	0.7839	2.0792	0.180801255	0.479553475
2.50	9.1351	8.0316	1.1035	3.1827	0.254514842	0.734068317
2.75	9.0690	8.2765	0.7925	3.9752	0.182784787	0.916853103
3.00	5.6519	5.4203	0.2316	4.2068	0.053416980	0.970270083
3.25	1.4352	1.3357	0.0995	4.3063	0.022949005	0.993219088
3.50	0.1746	0.1477	0.0269	4.3332	0.006204304	0.999423392
3.75	0.0492	0.0488	0.0004	4.3336	0.000092257	0.999515649
4.00	0.0122	0.0101	0.0021	4.3357	0.00048435	1

TOTAL WT. 37.8033 grams
CO3 WT. 4.3357 grams
% CARBONATE 11.4691

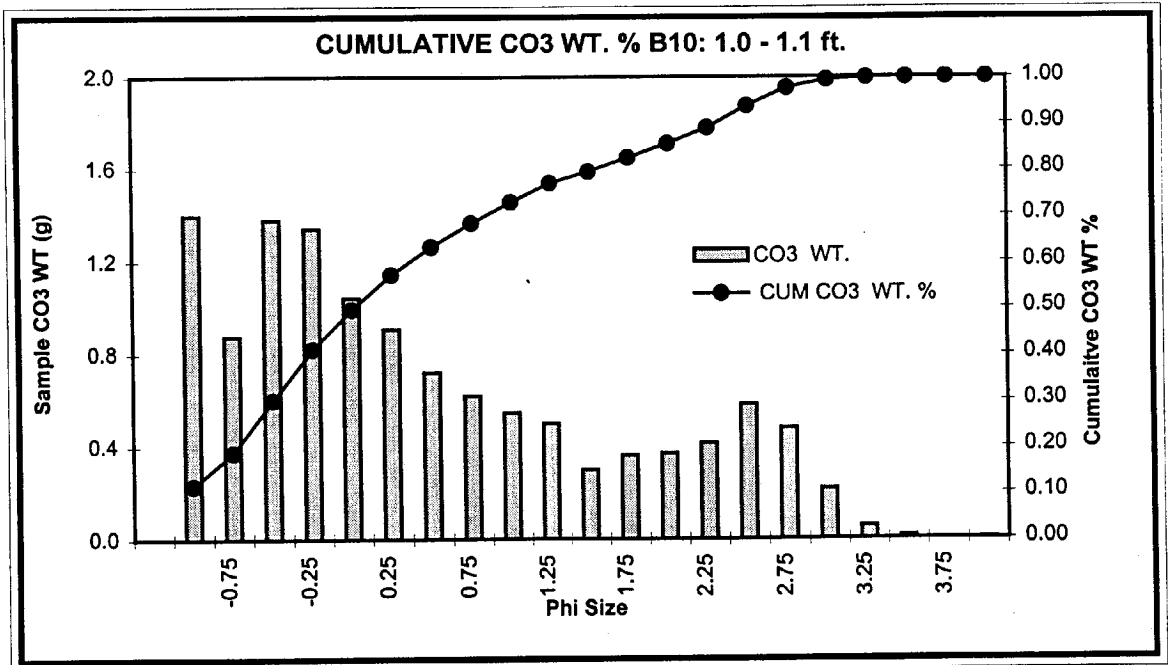


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B10: 1.0 - 1.1 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	1.3994	0	1.3994	1.3994	0.1152110914	0.1152110914
-0.75	0.8868	0.0088	0.8780	2.2774	0.0722847922	0.1874958836
-0.50	1.4310	0.0502	1.3808	3.6582	0.1136797734	0.3011756570
-0.25	1.4189	0.0763	1.3426	5.0008	0.1105348087	0.4117104657
0.00	1.2565	0.2110	1.0455	6.0463	0.0860748864	0.4977853520
0.25	1.4055	0.4953	0.9102	6.9565	0.0749357834	0.5727211355
0.50	1.4932	0.7695	0.7237	7.6802	0.0595814398	0.6323025752
0.75	1.6892	1.0683	0.6209	8.3011	0.0511180267	0.6834206020
1.00	2.1298	1.5832	0.5466	8.8477	0.0450009879	0.7284215899
1.25	2.0346	1.5341	0.5005	9.3482	0.0412056247	0.7696272146
1.50	1.4442	1.1457	0.2985	9.6467	0.0245751828	0.7942023974
1.75	2.0333	1.6732	0.3601	10.0068	0.0296466443	0.8238490417
2.00	2.3695	1.9995	0.3700	10.3768	0.0304617006	0.8543107423
2.25	3.1668	2.7523	0.4145	10.7913	0.0341253375	0.8884360798
2.50	3.7556	3.1720	0.5836	11.3749	0.0480471580	0.9364832378
2.75	3.9314	3.4509	0.4805	11.8554	0.0395590463	0.9760422841
3.00	3.0845	2.8681	0.2164	12.0718	0.0178159784	0.9938582625
3.25	1.0529	0.9969	0.0560	12.1278	0.0046104195	0.9984686821
3.50	0.1256	0.1132	0.0124	12.1402	0.0010208786	0.9994895607
3.75	0.0361	0.0331	0.0030	12.1432	0.0002469868	0.9997365475
4.00	0.0151	0.0119	0.0032	12.1464	0.000263453	1

TOTAL WT. 36.1599 grams
 CO3 WT. 12.1464 grams
 % CARBONATE 33.5908

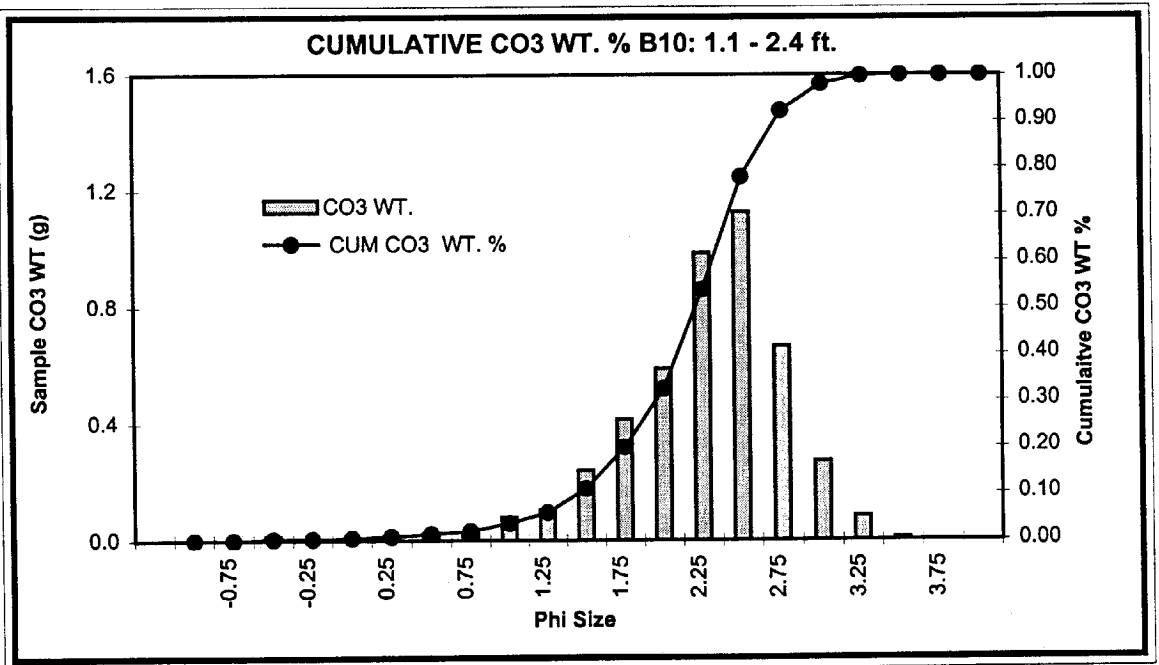


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B10: 1.1 - 2.4 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0	0	0	0	0	0
-0.75	0	0	0	0	0	0
-0.50	0.0138	0	0.0138	0.0138	0.002961945	0.002961945
-0.25	0.0025	0	0.0025	0.0163	0.000536584	0.003498530
0.00	0.0096	0	0.0096	0.0259	0.002060484	0.005559014
0.25	0.0179	0.0010	0.0169	0.0428	0.003627310	0.009186324
0.50	0.0259	0.0004	0.0255	0.0683	0.005473160	0.014659484
0.75	0.0649	0.0411	0.0238	0.0921	0.005108283	0.019767766
1.00	0.2742	0.1945	0.0797	0.1718	0.017106308	0.036874074
1.25	0.8044	0.7011	0.1033	0.2751	0.022171664	0.059045738
1.50	1.4331	1.1941	0.2390	0.5141	0.051297461	0.110343199
1.75	3.8231	3.4077	0.4154	0.9295	0.089158850	0.199502050
2.00	5.6656	5.0772	0.5884	1.5179	0.126290485	0.325792535
2.25	7.5623	6.5754	0.9869	2.5048	0.211822026	0.537614561
2.50	7.9406	6.8154	1.1252	3.6300	0.241505870	0.779120431
2.75	6.5760	5.9105	0.6655	4.2955	0.142838746	0.921959177
3.00	3.9873	3.7161	0.2712	4.5667	0.058208667	0.980167844
3.25	1.0561	0.9729	0.0832	4.6499	0.017857526	0.998025370
3.50	0.0967	0.0875	0.0092	4.6591	0.001974630	1
3.75	0.0290	0.0290	0.0000	4.6591	0	1
4.00	0.0107	0.0107	0.0000	4.6591	0	1

TOTAL WT. 39.3937 grams
 CO3 WT. 4.6591 grams
 % CARBONATE 11.8270

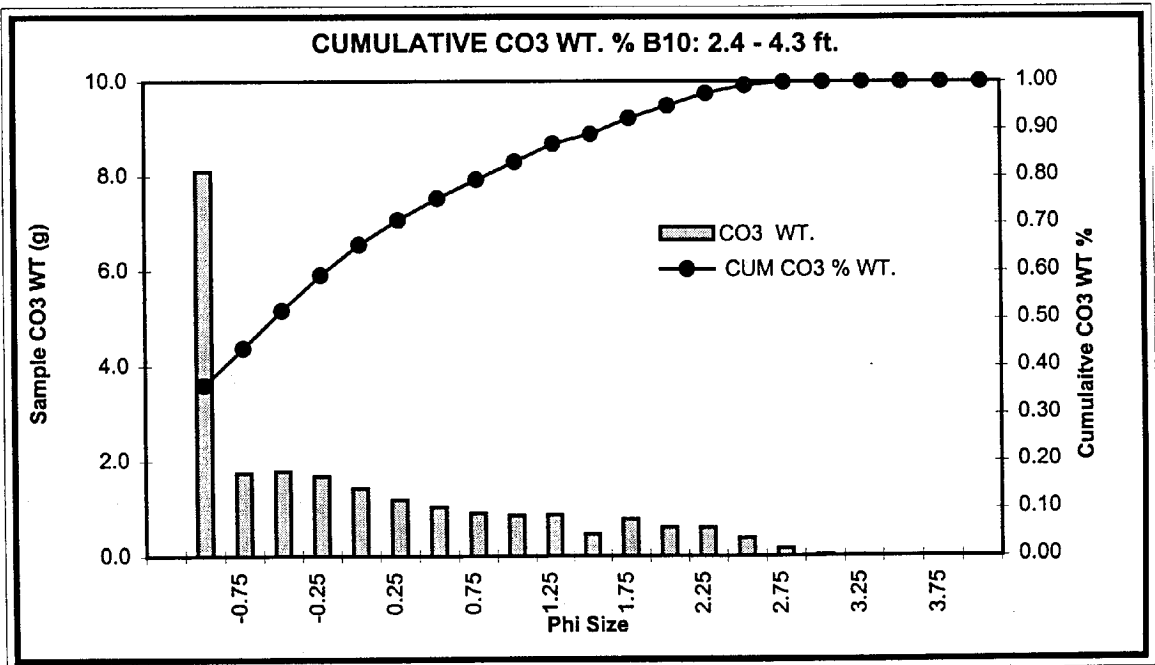


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B10: 2.4 - 4.3 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 % WT.
<-1.00	8.0986	0	8.0986	8.0986	0.360198722	0.360198722
-0.75	1.7527	0.0099	1.7428	9.8414	0.077513932	0.437712654
-0.50	1.8211	0.0407	1.7804	11.6218	0.079186255	0.516898909
-0.25	1.8166	0.1376	1.6790	13.3008	0.074676321	0.591575230
0.00	1.6689	0.2503	1.4186	14.7194	0.063094597	0.654669827
0.25	1.7703	0.5911	1.1792	15.8986	0.052446884	0.707116711
0.50	1.9437	0.9238	1.0199	16.9185	0.045361751	0.752478462
0.75	2.4704	1.5729	0.8975	17.8160	0.039917807	0.792396269
1.00	3.2281	2.3800	0.8481	18.6641	0.037720660	0.830116929
1.25	3.5365	2.6783	0.8582	19.5223	0.038169874	0.868286803
1.50	2.8982	2.4508	0.4474	19.9697	0.019898860	0.888185663
1.75	4.5675	3.8042	0.7633	20.7330	0.033949039	0.922134702
2.00	4.9882	4.3912	0.5970	21.3300	0.026552569	0.948687271
2.25	4.8815	4.2921	0.5894	21.9194	0.026214547	0.974901818
2.50	2.9306	2.5549	0.3757	22.2951	0.016709883	0.991611701
2.75	1.3153	1.1575	0.1578	22.4529	0.007018418	0.998630119
3.00	0.4966	0.4780	0.0186	22.4715	0.000827266	0.999457385
3.25	0.1087	0.0986	0.0101	22.4816	0.000449214	0.999906599
3.50	0.0148	0.0148	0.0000	22.4816	0	0.999906599
3.75	0.0175	0.0154	0.0021	22.4837	0.000093401	1
4.00	0.0118	0.0118	0	22.4837	0	1

TOTAL WT. 50.3376 grams
CO3 WT. 22.4837 grams
% CARBONATE 44.6658

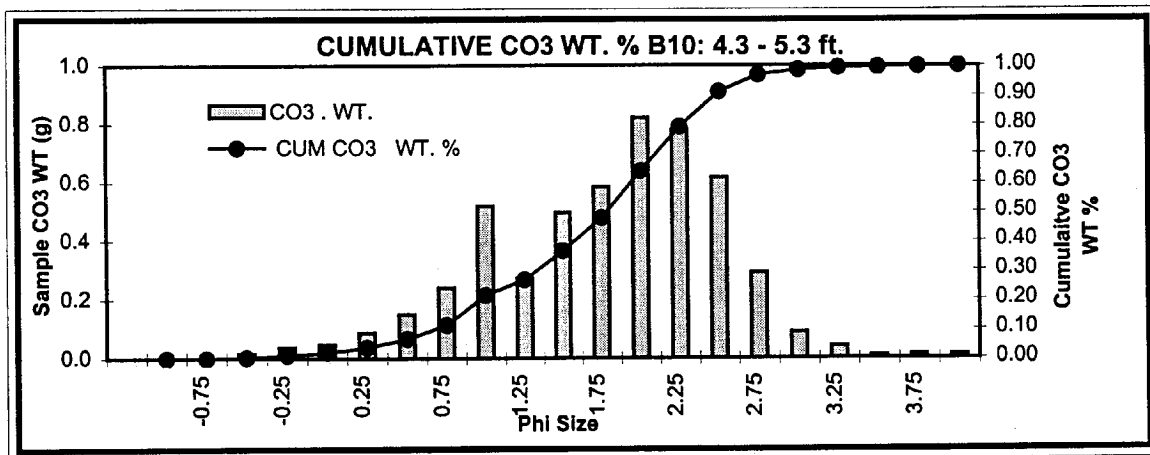


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B10: 4.3 - 5.3 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO ₃ WT.	CUM. CO ₃ WT.	CO ₃ WT. %	CUM CO ₃ WT. %
<-1.00	0	0	0	0	0	0
-0.75	0	0	0	0	0	0
-0.50	0.0178	0	0.0178	0.0178	0.003474459	0.003474459
-0.25	0.0376	0	0.0376	0.0554	0.007339306	0.010813765
0.00	0.0498	0.0020	0.0478	0.1032	0.009330288	0.020144053
0.25	0.0967	0.0101	0.0866	0.1898	0.016903828	0.037047881
0.50	0.1934	0.0444	0.1490	0.3388	0.029083953	0.066131834
0.75	0.4966	0.2567	0.2399	0.5787	0.046827116	0.112958951
1.00	1.6439	1.1252	0.5187	1.0974	0.101247292	0.214206242
1.25	2.9417	2.6692	0.2725	1.3699	0.053190451	0.267396693
1.50	3.5822	3.0854	0.4968	1.8667	0.096972536	0.364369230
1.75	6.5020	5.9189	0.5831	2.4498	0.113817806	0.478187035
2.00	7.6060	6.7842	0.8218	3.2716	0.160410689	0.638597724
2.25	8.2220	7.4419	0.7801	4.0517	0.152271086	0.790868810
2.50	5.3112	4.6945	0.6167	4.6684	0.120376335	0.911245145
2.75	2.1554	1.8649	0.2905	4.9589	0.056703949	0.967949093
3.00	0.7682	0.6795	0.0887	5.0476	0.017313736	0.985262829
3.25	0.1977	0.1563	0.0414	5.0890	0.008081045	0.993343874
3.50	0.0521	0.0419	0.0102	5.0992	0.001990982	0.995334856
3.75	0.0510	0.0387	0.0123	5.1115	0.002400890	0.997735746
4.00	0.0391	0.0275	0.0116	5.1231	0.002264254	1

TOTAL WT. **39.9644** **grams**
CO₃ WT. **5.1231** **grams**
% CARBONATE **12.8192**

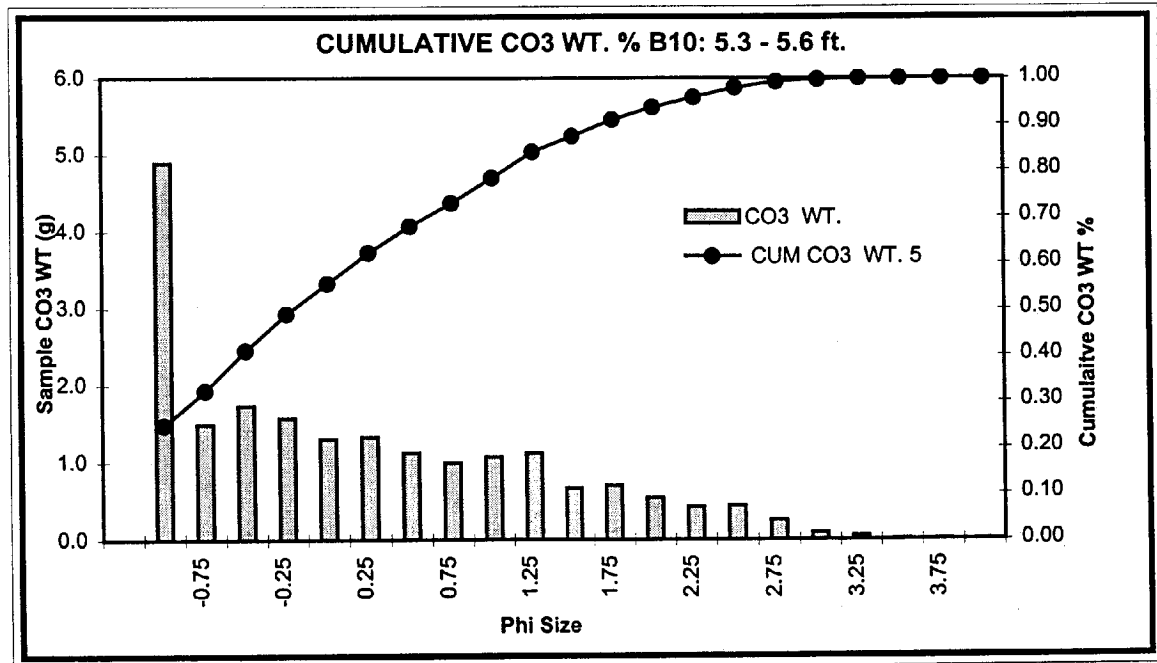


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B10: 5.3 - 5.6 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. 5
<-1.00	4.8943	0	4.8943	4.8943	0.246617655	0.246617655
-0.75	1.4978	0.0079	1.4899	6.3842	0.075074197	0.321691853
-0.50	1.7710	0.0313	1.7397	8.1239	0.087661307	0.409353160
-0.25	1.7474	0.1673	1.5801	9.7040	0.079619263	0.488972422
0.00	1.6154	0.3097	1.3057	11.0097	0.065792590	0.554765012
0.25	2.0055	0.6730	1.3325	12.3422	0.067143008	0.621908020
0.50	2.2344	1.1044	1.1300	13.4722	0.056939287	0.678847307
0.75	2.9314	1.9351	0.9963	14.4685	0.050202311	0.729049618
1.00	4.3570	3.2842	1.0728	15.5413	0.054057050	0.783106668
1.25	4.9032	3.7785	1.1247	16.6660	0.056672226	0.839778894
1.50	3.7278	3.0574	0.6704	17.3364	0.033780617	0.873559512
1.75	4.4665	3.7631	0.7034	18.0398	0.035443446	0.909002958
2.00	3.9033	3.3704	0.5329	18.5727	0.026852164	0.935855122
2.25	3.5863	3.1628	0.4235	18.9962	0.021339635	0.957194758
2.50	2.7674	2.3348	0.4326	19.4288	0.021798173	0.978992930
2.75	1.8883	1.6349	0.2534	19.6822	0.012768509	0.991761440
3.00	1.0780	0.9852	0.0928	19.7750	0.004676076	0.996437515
3.25	0.3109	0.2602	0.0507	19.8257	0.002554710	0.998992225
3.50	0.0488	0.0392	0.0096	19.8353	0.000483732	0.999475957
3.75	0.0371	0.0312	0.0059	19.8412	0.000297294	0.999773251
4.00	0.0217	0.0172	0.0045	19.8457	0.000226749	1

TOTAL WT.	49.7935	grams
CO3 WT.	19.8457	grams
% CARBONATE	39.8560	

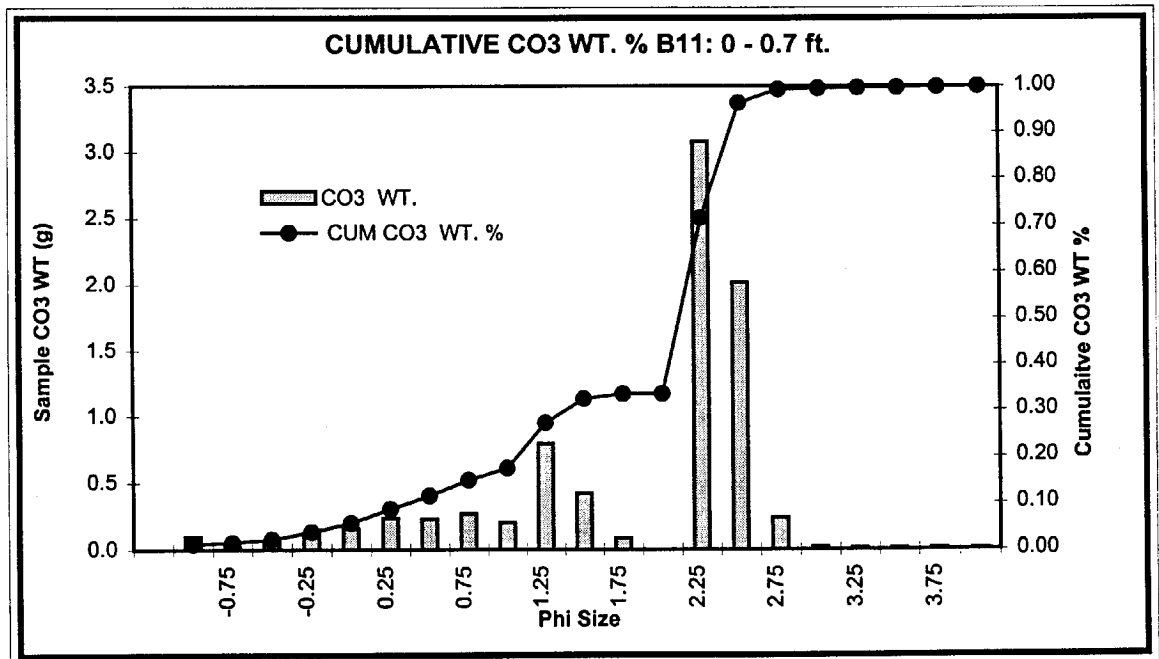


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B11: 0 - 0.7 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.1000	0	0.1000	0.1000	0.012333498	0.012333498
-0.75	0.0210	0	0.0210	0.1210	0.002590035	0.014923532
-0.50	0.0760	0.0170	0.0590	0.1800	0.007276764	0.022200296
-0.25	0.1360	0.0080	0.1280	0.3080	0.015786877	0.037987173
0.00	0.1970	0.0370	0.1600	0.4680	0.019733596	0.057720770
0.25	0.3400	0.1010	0.2390	0.7070	0.029477060	0.087197829
0.50	0.4790	0.2490	0.2300	0.9370	0.028367045	0.115564874
0.75	0.8660	0.5940	0.2720	1.2090	0.033547114	0.149111988
1.00	1.6570	1.4510	0.2060	1.4150	0.025407005	0.174518994
1.25	3.0870	2.2910	0.7960	2.2110	0.098174642	0.272693636
1.50	4.0090	3.5880	0.4210	2.6320	0.051924026	0.324617662
1.75	9.2760	9.1910	0.0850	2.7170	0.010483473	0.335101135
2.00	13.3610	13.3610	0.0000	2.7170	0	0.335101135
2.25	13.2010	10.1210	3.0800	5.7970	0.379871732	0.714972866
2.50	4.9670	2.9500	2.0170	7.8140	0.248766650	0.963739517
2.75	0.5590	0.3220	0.2370	8.0510	0.029230390	0.992969906
3.00	0.0880	0.0700	0.0180	8.0690	0.002220030	0.995189936
3.25	0.0360	0.0270	0.0090	8.0780	0.001110015	0.996299951
3.50	0.0210	0.0120	0.0090	8.0870	0.001110015	0.997409965
3.75	0.0180	0.0070	0.0110	8.0980	0.001356685	0.998766650
4.00	0.0160	0.0060	0.0100	8.1080	0.001233350	1

TOTAL WT.	52.5110	grams
CO3 WT.	8.1080	grams
% CARBONATE	15.4406	

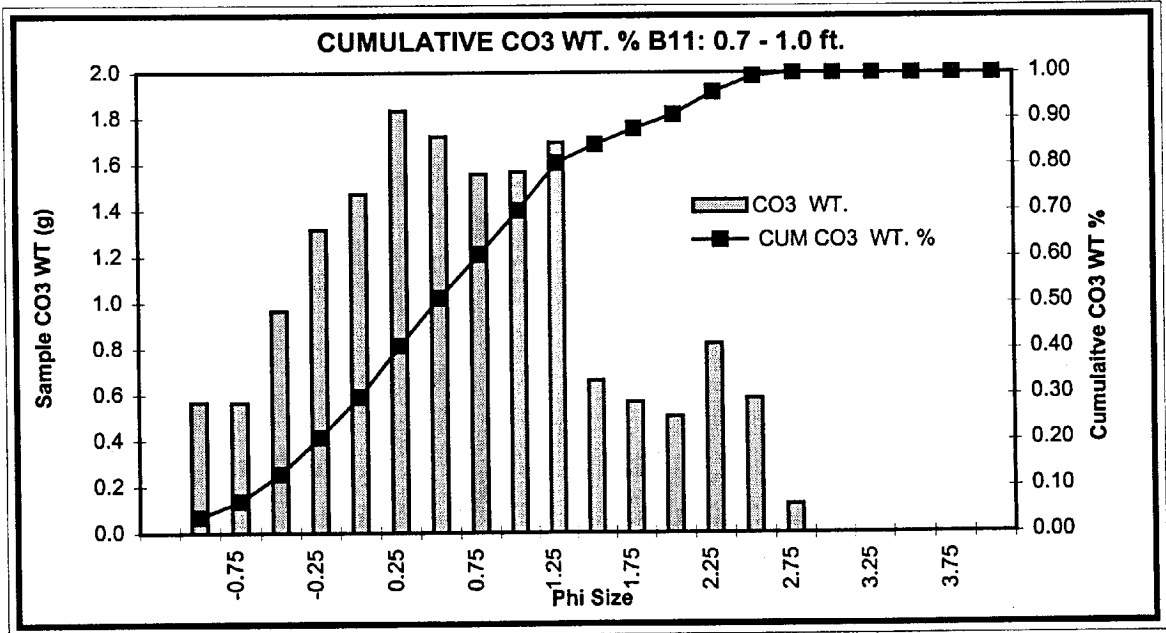


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B11: 0.7 - 1.0 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3. WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.5674	0	0.5674	0.5674	0.034335024	0.034335024
-0.75	0.5750	0.0090	0.5660	1.1334	0.034250306	0.068585329
-0.50	1.0070	0.0410	0.9660	2.0994	0.058455469	0.127040798
-0.25	1.4370	0.1190	1.3180	3.4174	0.079756012	0.206796810
0.00	1.7820	0.3100	1.4720	4.8894	0.089075000	0.295871809
0.25	2.9590	1.1250	1.8340	6.7234	0.110980672	0.406852482
0.50	4.0570	2.3370	1.7200	8.4434	0.104082201	0.510934682
0.75	5.2940	3.7380	1.5560	9.9994	0.094158084	0.605092766
1.00	7.6040	6.0370	1.5670	11.5664	0.094823726	0.699916492
1.25	7.6290	5.9340	1.6950	13.2614	0.102569378	0.802485870
1.50	5.8410	5.1790	0.6620	13.9234	0.040059545	0.842545415
1.75	7.7770	7.2090	0.5680	14.4914	0.034371331	0.876916746
2.00	6.1120	5.6080	0.5040	14.9954	0.030498505	0.907415252
2.25	4.4330	3.6100	0.8230	15.8184	0.049802123	0.957217374
2.50	1.8140	1.2300	0.5840	16.4024	0.035339538	0.992556912
2.75	0.4090	0.2860	0.1230	16.5254	0.007443088	1
3.00	0.1230	0.1230	0.0000	16.5254	0	1
3.25	0.0430	0.0430	0.0000	16.5254	0	1
3.50	0.0130	0.0130	0.0000	16.5254	0	1
3.75	0.0090	0.0090	0.0000	16.5254	0	1
4.00	0.0060	0.0060	0.0000	16.5254	0	1

TOTAL WT. 59.4914 grams
 CO3 WT. 16.5254 grams
 % CARBONATE 27.7778

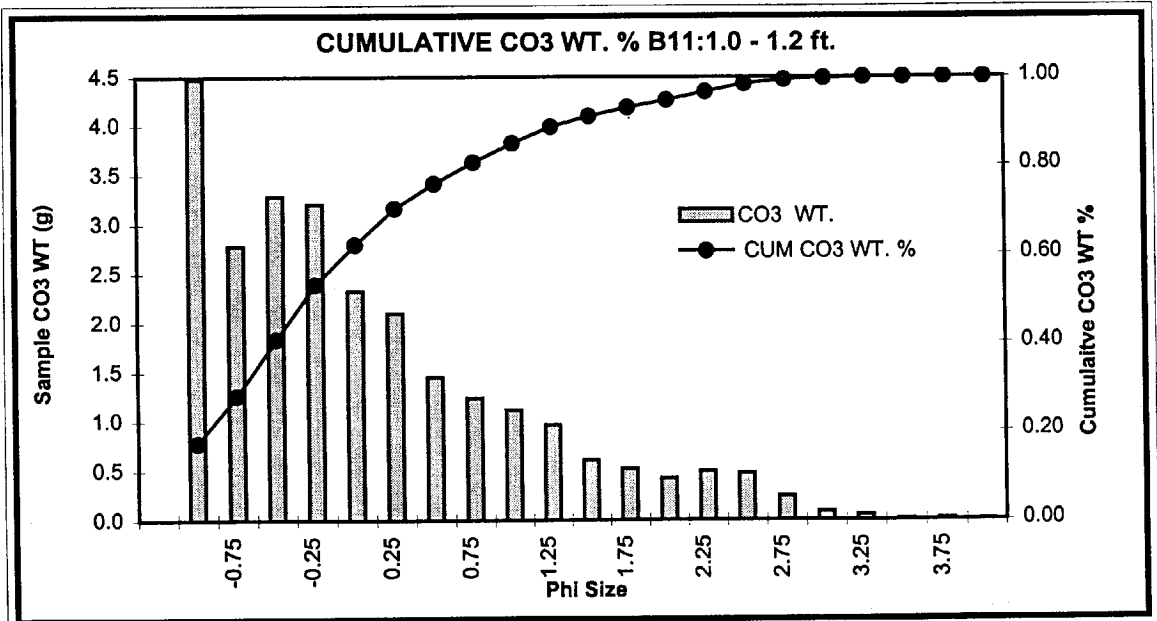


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B11: 1.0 - 1.2 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	4.4770	0	4.4770	4.4770	0.173057596	0.173057596
-0.75	2.8590	0.0730	2.7860	7.2630	0.107692308	0.280749903
-0.50	3.4460	0.1590	3.2870	10.5500	0.127058369	0.407808272
-0.25	3.6110	0.4020	3.2090	13.7590	0.124043293	0.531851566
0.00	2.9190	0.5940	2.3250	16.0840	0.089872439	0.621724005
0.25	3.1190	1.0200	2.0990	18.1830	0.081136451	0.702860456
0.50	2.7390	1.2880	1.4510	19.6340	0.056088133	0.758948589
0.75	2.8060	1.5680	1.2380	20.8720	0.047854658	0.806803247
1.00	3.2590	2.1420	1.1170	21.9890	0.043177426	0.849980673
1.25	3.2770	2.3130	0.9640	22.9530	0.037263239	0.887243912
1.50	2.5500	1.9430	0.6070	23.5600	0.023463471	0.910707383
1.75	3.7480	3.2320	0.5160	24.0760	0.019945883	0.930653266
2.00	3.5970	3.1760	0.4210	24.4970	0.016273676	0.946926942
2.25	3.3410	2.8490	0.4920	24.9890	0.019018168	0.965945110
2.50	2.2700	1.8000	0.4700	25.4590	0.018167762	0.984112872
2.75	1.2360	0.9910	0.2450	25.7040	0.009470429	0.993583301
3.00	0.7410	0.6520	0.0890	25.7930	0.003440278	0.997023579
3.25	0.3080	0.2560	0.0520	25.8450	0.002010050	0.999033630
3.50	0.0600	0.0500	0.0100	25.8550	0.000386548	0.999420178
3.75	0.0420	0.0290	0.0130	25.8680	0.000502513	0.999922690
4.00	0.0240	0.0220	0.0020	25.8700	0.000077310	1

TOTAL WT. 50.4290 grams
 CO3 WT. 25.8700 grams
 % CARBONATE 51.2998

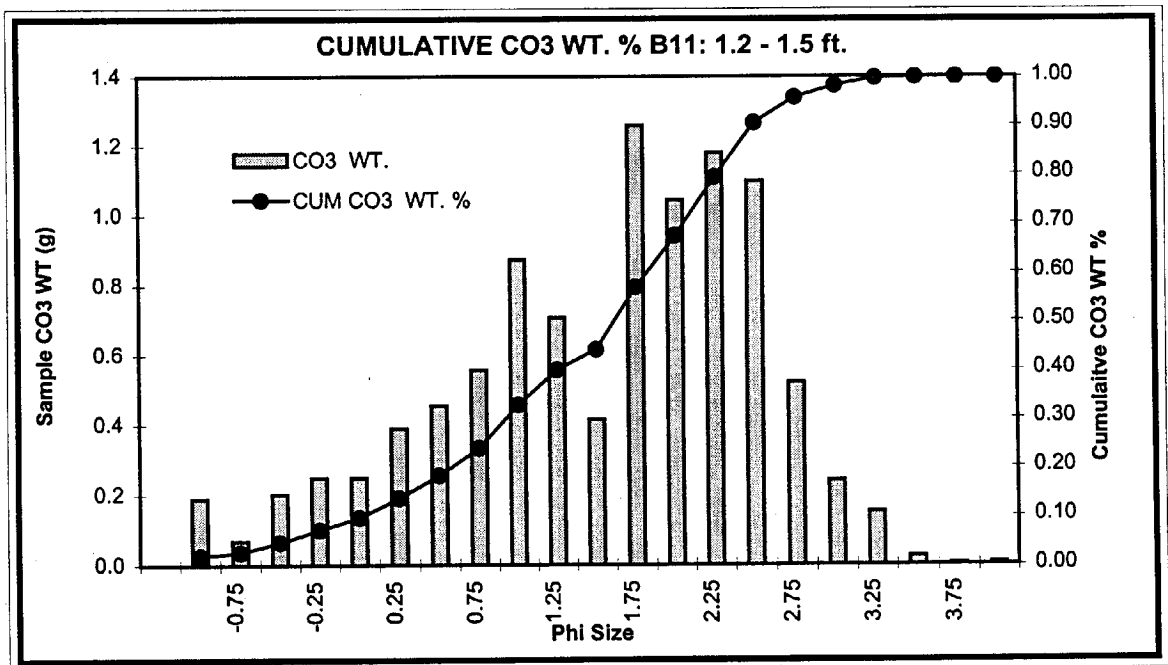


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B11: 1.2 - 1.5 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3. WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.1890	0	0.1890	0.1890	0.019114078	0.019114078
-0.75	0.0680	0	0.0680	0.2570	0.006877023	0.025991100
-0.50	0.2010	0	0.2010	0.4580	0.020327670	0.046318770
-0.25	0.2670	0.0180	0.2490	0.7070	0.025182039	0.071500809
0.00	0.2970	0.0480	0.2490	0.9560	0.025182039	0.096682848
0.25	0.5180	0.1280	0.3900	1.3460	0.039441748	0.136124595
0.50	0.7270	0.2720	0.4550	1.8010	0.046015372	0.182139968
0.75	1.2870	0.7290	0.5580	2.3590	0.056432039	0.238572006
1.00	2.6150	1.7400	0.8750	3.2340	0.088491100	0.327063107
1.25	3.6230	2.9140	0.7090	3.9430	0.071703074	0.398766181
1.50	3.7700	3.3550	0.4150	4.3580	0.041970065	0.440736246
1.75	6.9490	5.6910	1.2580	5.6160	0.127224919	0.567961165
2.00	7.6850	6.6420	1.0430	6.6590	0.105481392	0.673442557
2.25	7.8330	6.6530	1.1800	7.8390	0.119336570	0.792779126
2.50	5.3530	4.2540	1.0990	8.9380	0.111144822	0.903923948
2.75	2.5790	2.0570	0.5220	9.4600	0.052791262	0.956715210
3.00	1.3140	1.0730	0.2410	9.7010	0.024372977	0.981088188
3.25	0.4330	0.2810	0.1520	9.8530	0.015372168	0.996460356
3.50	0.0670	0.0430	0.0240	9.8770	0.002427184	0.998887540
3.75	0.0360	0.0320	0.0040	9.8810	0.000404531	0.999292071
4.00	0.0220	0.0150	0.0070	9.8880	0.000707929	1

TOTAL WT. **45.8330** **grams**
 CO3 WT. **9.8880** **grams**
 % CARBONATE **21.5740**

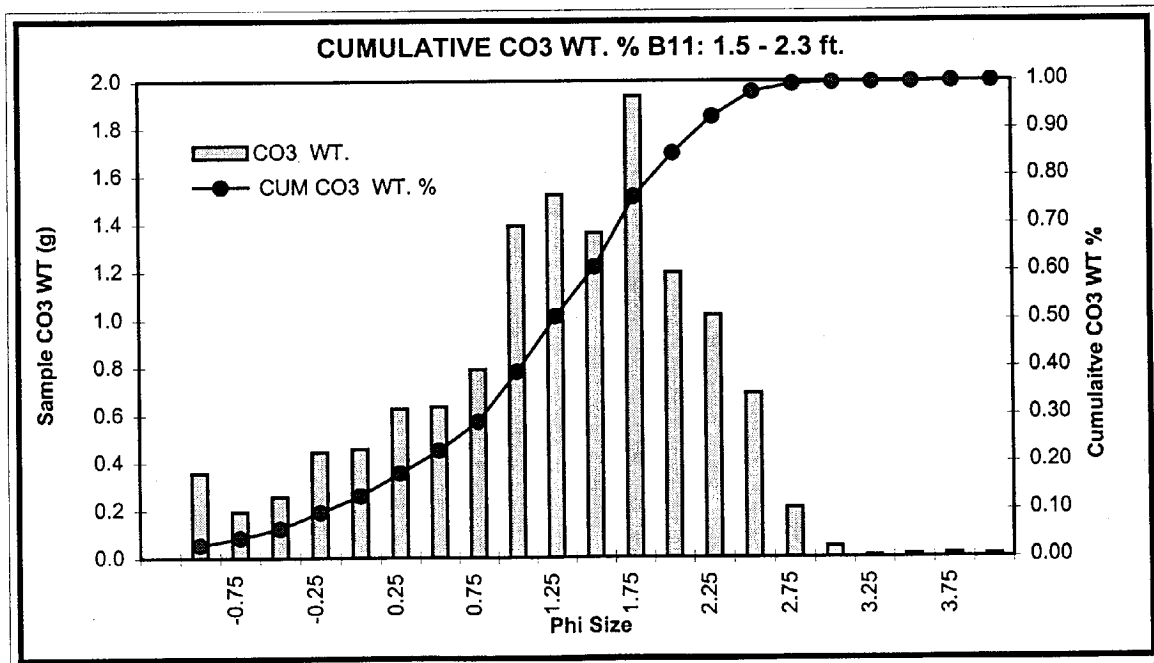


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B11: 1.5 - 2.3 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.3560	0.0000	0.3560	0.3560	0.027049616	0.027049616
-0.75	0.1930	0.0000	0.1930	0.5490	0.014664539	0.041714155
-0.50	0.2540	0.0000	0.2540	0.8030	0.019299445	0.061013601
-0.25	0.4550	0.0120	0.4430	1.2460	0.033660056	0.094673657
0.00	0.5000	0.0440	0.4560	1.7020	0.034647823	0.129321480
0.25	0.8330	0.2060	0.6270	2.3290	0.047640757	0.176962237
0.50	1.1430	0.5080	0.6350	2.9640	0.048248613	0.225210850
0.75	2.0180	1.2280	0.7900	3.7540	0.060025834	0.285236684
1.00	4.8440	3.4540	1.3900	5.1440	0.105615075	0.390851759
1.25	7.9430	6.4230	1.5200	6.6640	0.115492744	0.506344503
1.50	8.6060	7.2450	1.3610	8.0250	0.103411595	0.609756098
1.75	13.8650	11.9280	1.9370	9.9620	0.147177266	0.756933364
2.00	11.1970	10.0020	1.1950	11.1570	0.090798572	0.847731935
2.25	8.1990	7.1820	1.0170	12.1740	0.077273763	0.925005699
2.50	3.6200	2.9300	0.6900	12.8640	0.052427627	0.977433326
2.75	0.9410	0.7350	0.2060	13.0700	0.015652306	0.993085632
3.00	0.3030	0.2580	0.0450	13.1150	0.003419193	0.996504825
3.25	0.1210	0.1140	0.0070	13.1220	0.000531874	0.997036699
3.50	0.0470	0.0350	0.0120	13.1340	0.000911785	0.997948484
3.75	0.0480	0.0330	0.0150	13.1490	0.001139731	0.999088215
4.00	0.0350	0.0230	0.0120	13.1610	0.000911785	1

TOTAL WT. **65.5210** **grams**
CO3 WT. **13.1610** **grams**
% CARBONATE **20.0867**

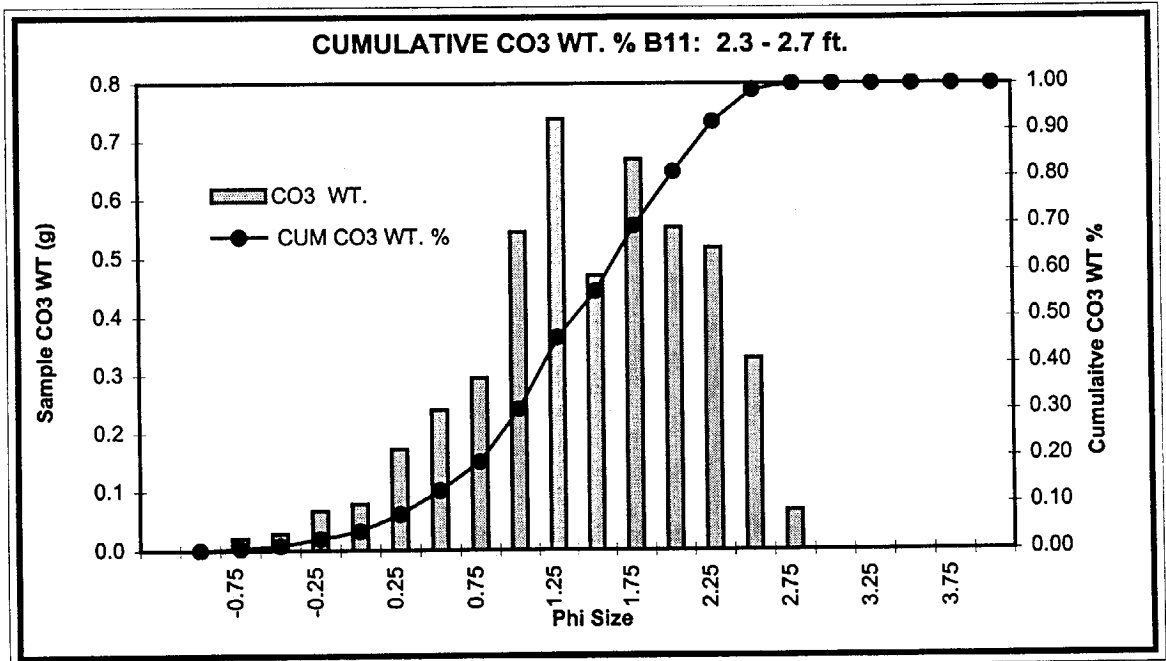


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B11: 2.3 - 2.7 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0	0	0	0	0	0
-0.75	0.0211	0	0.0211	0.0211	0.004403356	0.004403356
-0.50	0.0280	0	0.0280	0.0491	0.005843316	0.010246671
-0.25	0.0668	0	0.0668	0.1159	0.013940482	0.024187153
0.00	0.0869	0.0078	0.0791	0.1950	0.016507367	0.040694520
0.25	0.2139	0.0419	0.1720	0.3670	0.035894653	0.076589173
0.50	0.3423	0.1014	0.2409	0.6079	0.050273384	0.126862557
0.75	0.7127	0.4172	0.2955	0.9034	0.061667849	0.188530406
1.00	2.0418	1.4969	0.5449	1.4483	0.113715097	0.302245503
1.25	3.6427	2.9040	0.7387	2.1870	0.154159189	0.456404691
1.50	3.5218	3.0508	0.4710	2.6580	0.098292917	0.554697608
1.75	5.4337	4.7646	0.6691	3.3271	0.139634375	0.694331984
2.00	4.9497	4.3982	0.5515	3.8786	0.115092450	0.809424433
2.25	4.0927	3.5754	0.5173	4.3959	0.107955257	0.917379690
2.50	1.9598	1.6306	0.3292	4.7251	0.068700697	0.986080387
2.75	0.5012	0.4345	0.0667	4.7918	0.013919613	1
3.00	0.1486	0.1486	0	4.7918	0	1
3.25	0.0611	0.0611	0	4.7918	0	1
3.50	0.0293	0.0293	0	4.7918	0	1
3.75	0.0266	0.0266	0	4.7918	0	1
4.00	0.0161	0.0161	0	4.7918	0	1

TOTAL WT. 27.8968 grams
 CO3 WT. 4.7918 grams
 % CARBONATE 17.1769

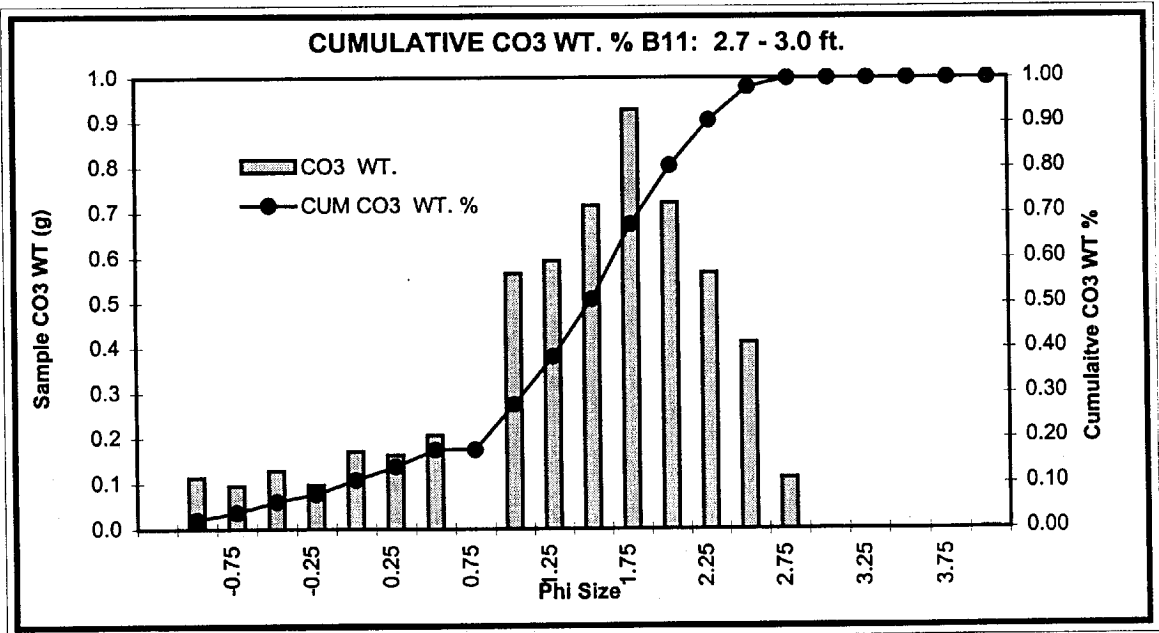


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B11: 2.7 - 3.0 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.1139	0	0.1139	0.1139	0.020332387	0.020332387
-0.75	0.0947	0	0.0947	0.2086	0.016904979	0.037237366
-0.50	0.1291	0	0.1291	0.3377	0.023045752	0.060283118
-0.25	0.1100	0.0122	0.0978	0.4355	0.017458362	0.077741481
0.00	0.1842	0.0126	0.1716	0.6071	0.030632464	0.108373945
0.25	0.1961	0.0332	0.1629	0.7700	0.029079419	0.137453364
0.50	0.3360	0.1295	0.2065	0.9765	0.036862493	0.174315857
0.75	0.6998	0.6998	0	0.9765	0	0.174315857
1.00	1.9865	1.4204	0.5661	1.5426	0.101054999	0.275370856
1.25	4.0347	3.4400	0.5947	2.1373	0.106160410	0.381531266
1.50	5.0927	4.3772	0.7155	2.8528	0.127724522	0.509255788
1.75	7.9819	7.0528	0.9291	3.7819	0.165854442	0.67511023
2.00	6.7680	6.0461	0.7219	4.5038	0.128866992	0.803977222
2.25	5.0937	4.5256	0.5681	5.0719	0.101412021	0.905389243
2.50	2.3179	1.9041	0.4138	5.4857	0.073867795	0.979257038
2.75	0.6500	0.5366	0.1134	5.5991	0.020243132	0.99950017
3.00	0.2117	0.2107	0.0010	5.6001	0.000178511	0.99967868
3.25	0.0668	0.0668	0	5.6001	0	0.99967868
3.50	0.0220	0.0220	0	5.6001	0	0.99967868
3.75	0.0179	0.0178	0.0001	5.6002	0.000017851	0.999696532
4.00	0.0118	0.0101	0.0017	5.6019	0.000303468	1

TOTAL WT. 36.1194 grams
CO3 WT. 5.6019 grams
% CARBONATE 15.5094

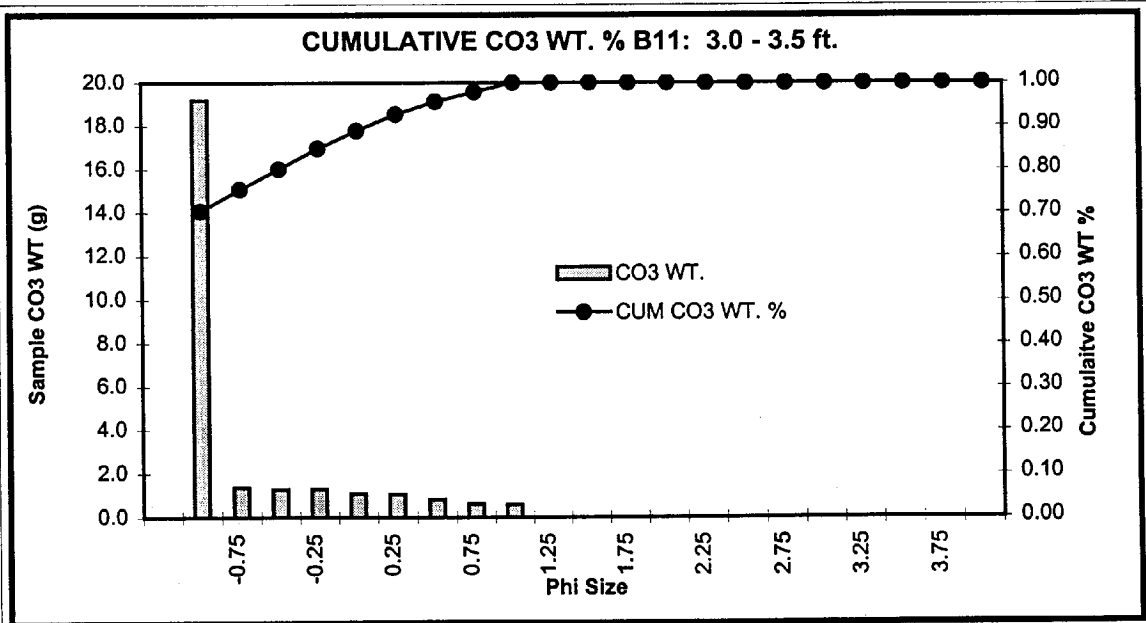


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B11: 3.0 - 3.5 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	19.1893	0	19.1893	19.1893	0.703727066	0.703727066
-0.75	1.3733	0	1.3733	20.5626	0.050362878	0.754089944
-0.50	1.3449	0.0644	1.2805	21.8431	0.046959634	0.801049578
-0.25	1.3978	0.1008	1.2970	23.1401	0.047564737	0.848614315
0.00	1.4443	0.3486	1.0957	24.2358	0.040182484	0.888796799
0.25	1.8438	0.7982	1.0456	25.2814	0.038345173	0.927141972
0.50	2.2173	1.4176	0.7997	26.0811	0.029327309	0.956469281
0.75	2.8650	2.2574	0.6076	26.6887	0.022282447	0.978751728
1.00	4.4627	3.8834	0.5793	27.2680	0.021244605	0.999996333
1.25	4.9913	4.9913	0	27.2680	0	0.999996333
1.50	3.8132	3.8132	0	27.2680	0	0.999996333
1.75	3.7858	3.7858	0	27.2680	0	0.999996333
2.00	1.7554	1.7554	0	27.2680	0	0.999996333
2.25	0.7665	0.7665	0	27.2680	0	0.999996333
2.50	0.2694	0.2694	0	27.2680	0	0.999996333
2.75	0.0981	0.0981	0	27.2680	0	0.999996333
3.00	0.0528	0.0528	0	27.2680	0	0.999996333
3.25	0.0368	0.0368	0	27.2680	0	0.999996333
3.50	0.0219	0.0219	0	27.2680	0	0.999996333
3.75	0.0244	0.0244	0	27.2680	0	0.999996333
4.00	0.0175	0.0174	0	27.2681	0.000003667	1

OTAL WT. **51.7715** **grams**
CO3 WT. **27.2681** **grams**
CARBONATE **52.6701**

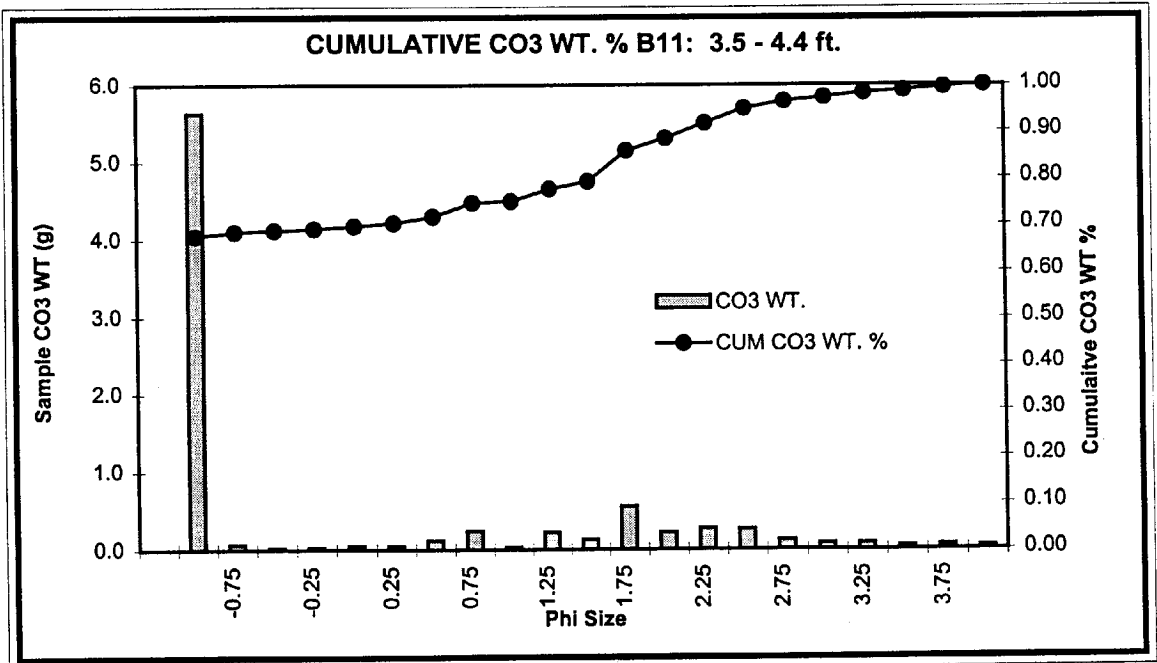


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B11: 3.5 - 4.4 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	5.6337	0	5.6337	5.6337	0.675293074	0.675293074
-0.75	0.0704	0	0.0704	5.7041	0.008438616	0.683731690
-0.50	0.029	0	0.029	5.7331	0.003476135	0.687207825
-0.25	0.0378	0.0074	0.0304	5.7635	0.003643948	0.690851773
0.00	0.0602	0.0114	0.0488	5.8123	0.005849495	0.696701268
0.25	0.1250	0.0760	0.0490	5.8613	0.005873469	0.702574737
0.50	0.4191	0.3021	0.1170	5.9783	0.014024405	0.716599142
0.75	1.2632	1.0207	0.2425	6.2208	0.029067677	0.745666818
1.00	3.7877	3.7595	0.0282	6.2490	0.003380241	0.749047060
1.25	6.9139	6.6930	0.2209	6.4699	0.026478556	0.775525616
1.50	6.7562	6.6242	0.1320	6.6019	0.015822405	0.791348021
1.75	8.8640	8.3101	0.5539	7.1558	0.066394170	0.857742191
2.00	5.3209	5.0994	0.2215	7.3773	0.026550476	0.884292667
2.25	2.8610	2.5849	0.2761	7.6534	0.033095198	0.917387865
2.50	1.0890	0.8239	0.2651	7.9185	0.031776664	0.949164529
2.75	0.3800	0.2532	0.1268	8.0453	0.015199099	0.964363628
3.00	0.1901	0.1125	0.0776	8.1229	0.009301657	0.973665284
3.25	0.1346	0.0558	0.0788	8.2017	0.009445497	0.983110781
3.50	0.0700	0.0271	0.0429	8.2446	0.005142282	0.988253063
3.75	0.0829	0.0251	0.0578	8.3024	0.006928296	0.995181358
4.00	0.0586	0.0184	0.0402	8.3426	0.004818642	1

TOTAL WT. 44.1473 grams
 CO3 WT. 8.3426 grams
 % CARBONATE 18.8972

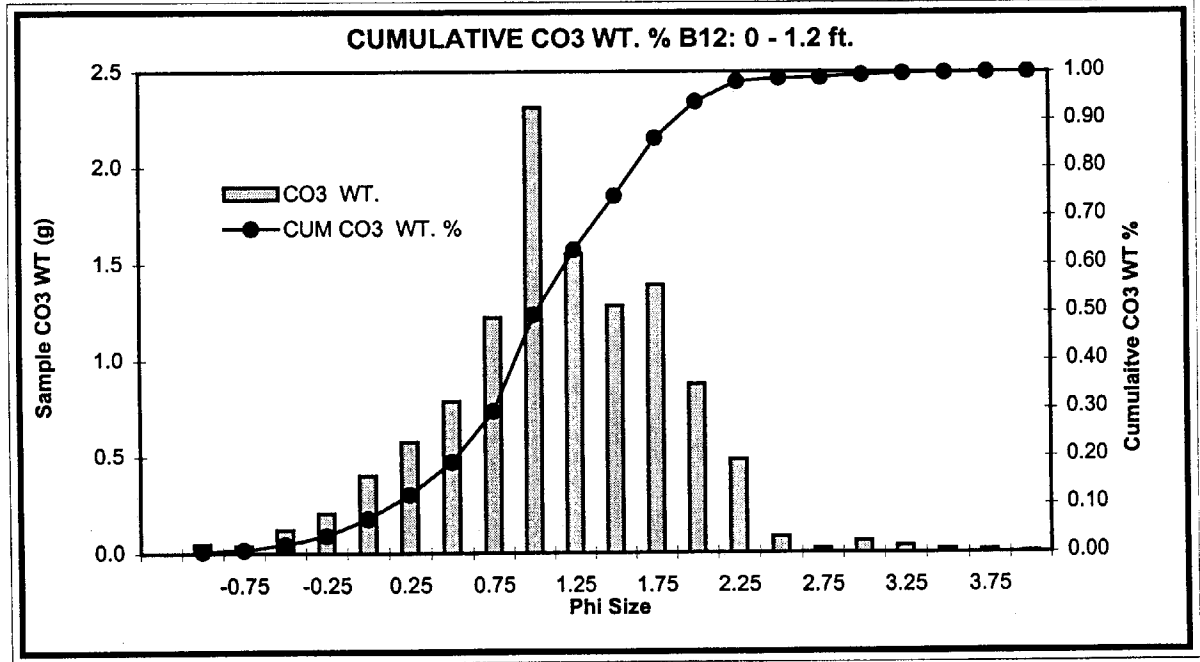


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B12: 0 - 1.2 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.0483	0	0.0483	0.0483	0.004184282	0.004184282
-0.75	0.0384	0	0.0384	0.0867	0.003326634	0.007510916
-0.50	0.1211	0	0.1211	0.2078	0.010491025	0.018001941
-0.25	0.2161	0.0112	0.2049	0.4127	0.017750710	0.035752651
0.00	0.4719	0.0704	0.4015	0.8142	0.034782383	0.070535034
0.25	0.8289	0.2524	0.5765	1.3907	0.049942823	0.120477857
0.50	1.4255	0.6383	0.7872	2.1779	0.068195994	0.188673851
0.75	2.8968	1.6749	1.2219	3.3998	0.105854529	0.294528380
1.00	6.2040	3.8906	2.3134	5.7132	0.200412364	0.494940744
1.25	7.9073	6.3535	1.5538	7.2670	0.134607388	0.629548132
1.50	5.9424	4.6601	1.2823	8.5493	0.111087047	0.740635179
1.75	7.0818	5.6891	1.3927	9.9420	0.120651119	0.861286298
2.00	5.0230	4.1461	0.8769	10.8189	0.075966803	0.937253101
2.25	3.0773	2.5940	0.4833	11.3022	0.041868806	0.979121907
2.50	0.8069	0.7226	0.0843	11.3865	0.007303001	0.986424908
2.75	0.1635	0.1422	0.0213	11.4078	0.001845242	0.988270150
3.00	0.0620	0	0.0620	11.4698	0.005371128	0.993641278
3.25	0.0346	0	0.0346	11.5044	0.002997436	0.996638714
3.50	0.0189	0	0.0189	11.5233	0.001637328	0.998276041
3.75	0.0230	0.0089	0.0141	11.5374	0.001221498	0.999497540
4.00	0.0058	0	0.0058	11.5432	0.000502460	1

TOTAL WT.	42.3975	grams
CO3 WT.	11.5432	grams
% CARBONATE	27.2261	

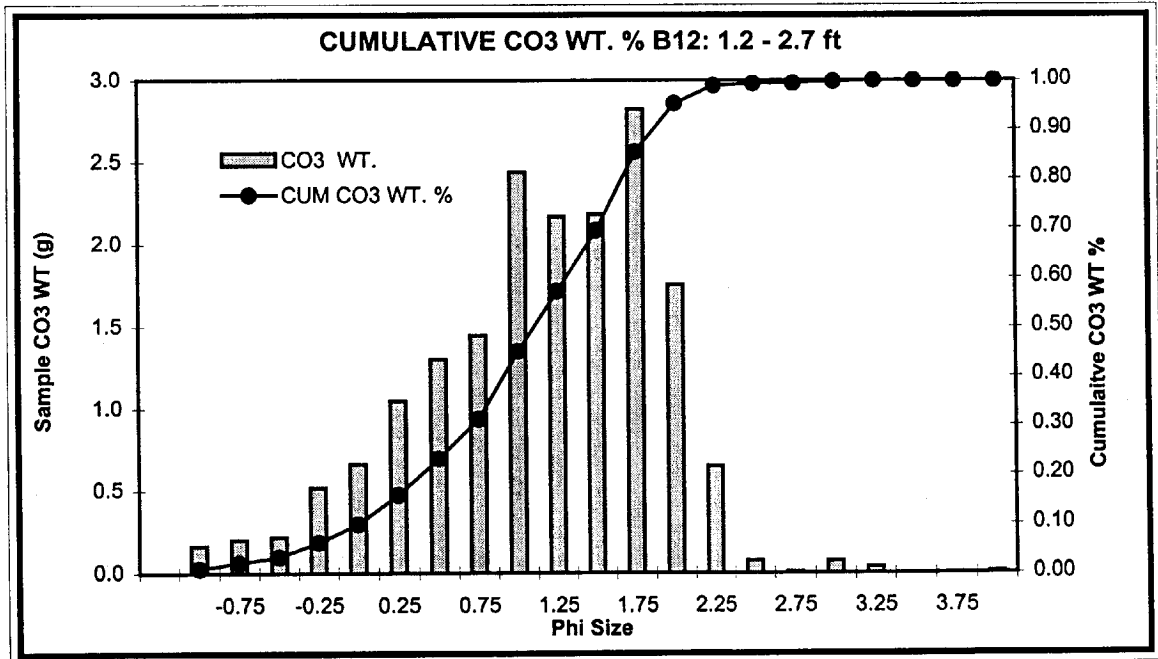


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B12: 1.2 - 2.7 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.1638	0	0.1638	0.1638	0.009219391	0.009219391
-0.75	0.2034	0	0.2034	0.3672	0.011448255	0.020667646
-0.50	0.2163	0	0.2163	0.5835	0.012174324	0.032841970
-0.25	0.5264	0.0104	0.5160	1.0995	0.029042771	0.061884741
0.00	0.7060	0.0456	0.6604	1.7599	0.037170244	0.099054984
0.25	1.2490	0.2003	1.0487	2.8086	0.059025491	0.158080475
0.50	2.0618	0.7596	1.3022	4.1108	0.073293597	0.231374072
0.75	3.4167	1.9712	1.4455	5.5563	0.081359157	0.312733229
1.00	6.9795	4.5398	2.4397	7.9960	0.137317146	0.450050375
1.25	9.5032	7.3349	2.1683	10.1643	0.122041549	0.572091924
1.50	8.8204	6.6370	2.1834	12.3477	0.122891444	0.694983368
1.75	11.4224	8.6014	2.8210	15.1687	0.158778403	0.853761770
2.00	6.4153	4.6595	1.7558	16.9245	0.098824218	0.952585989
2.25	2.4618	1.8168	0.6450	17.5695	0.036303463	0.988889452
2.50	0.4682	0.3941	0.0741	17.6436	0.004170677	0.993060129
2.75	0.1213	0.1146	0.0067	17.6503	0.000377106	0.993437234
3.00	0.0720	0	0.0720	17.7223	0.004052480	0.997489714
3.25	0.0355	0	0.0355	17.7578	0.001998098	0.999487812
3.50	0.0148	0.0140	0.0008	17.7586	0.000045028	0.999532839
3.75	0.0093	0.0080	0.0013	17.7599	0.000073170	0.999606009
4.00	0.0070	0	0.0070	17.7669	0.000393991	1

TOTAL WT.	54.8741	grams
CO3 WT.	17.7669	grams
% CARBONATE	32.3776	

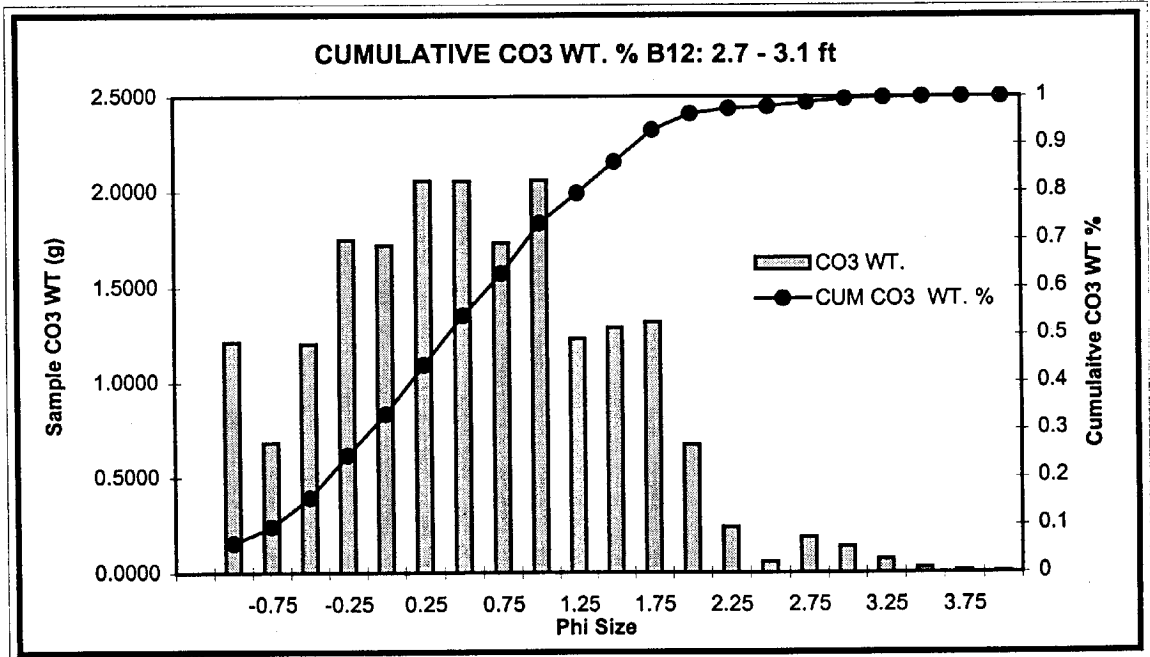


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B12: 2.7 - 3.1 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	1.2134	0	1.2134	1.2134	0.061577655	0.061577655
-0.75	0.6828	0	0.6828	1.8962	0.034650752	0.096228407
-0.50	1.2116	0.0061	1.2055	3.1017	0.061176745	0.157405152
-0.25	1.8770	0.1269	1.7501	4.8518	0.088814120	0.246219272
0.00	2.0360	0.3169	1.7191	6.5709	0.087240931	0.333460203
0.25	2.8790	0.8230	2.0560	8.6269	0.104337941	0.437798145
0.50	3.4632	1.4080	2.0552	10.6821	0.104297343	0.542095487
0.75	4.2385	2.5060	1.7325	12.4146	0.087920955	0.630016442
1.00	7.1377	5.0795	2.0582	14.4728	0.104449587	0.734466029
1.25	8.7235	7.4935	1.2300	15.7028	0.062420072	0.796886101
1.50	7.5423	6.2526	1.2897	16.9925	0.065449729	0.862335830
1.75	8.5888	7.2692	1.3196	18.3121	0.066967095	0.929302925
2.00	4.5516	3.8797	0.6719	18.9840	0.034097599	0.963400524
2.25	1.9267	1.6892	0.2375	19.2215	0.012052656	0.975453180
2.50	0.5498	0.4960	0.0538	19.2753	0.002730244	0.978183424
2.75	0.1842	0	0.1842	19.4595	0.009347786	0.987531210
3.00	0.1347	0	0.1347	19.5942	0.006835759	0.994366969
3.25	0.0684	0	0.0684	19.6626	0.003471165	0.997838134
3.50	0.0253	0	0.0253	19.6879	0.001283925	0.999122059
3.75	0.0119	0	0.0119	19.6998	0.000603902	0.999725961
4.00	0.0054	0	0.0054	19.7052	0.000274039	1

TOTAL WT. 57.0518 grams
 CO3 WT. 19.7052 grams
 % CARBONATE 34.5391

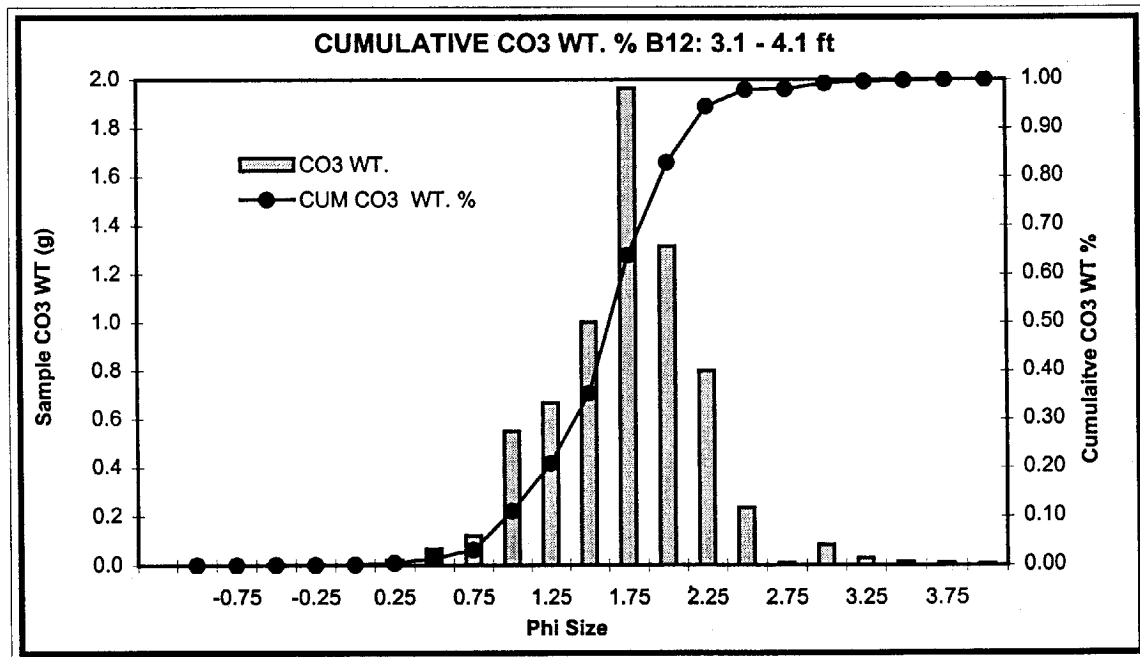


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B12: 3.1 - 4.1 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0	0	0	0	0	0
-0.75	0	0	0	0	0	0
-0.50	0.0040	0	0.0040	0.0040	0.000579702	0.000579702
-0.25	0.0022	0	0.0022	0.0062	0.000318836	0.000898538
0.00	0.0098	0.0061	0.0037	0.0099	0.000536224	0.001434762
0.25	0.0301	0.0071	0.0230	0.0329	0.003333285	0.004768047
0.50	0.0888	0.0234	0.0654	0.0983	0.009478124	0.014246170
0.75	0.2345	0.1140	0.1205	0.2188	0.017463515	0.031709685
1.00	1.3769	0.8265	0.5504	0.7692	0.079766960	0.111476645
1.25	4.4051	3.7354	0.6697	1.4389	0.097056564	0.208533210
1.50	6.6521	5.6483	1.0038	2.4427	0.145476153	0.354009362
1.75	11.9962	10.0329	1.9633	4.4060	0.284532108	0.638541470
2.00	9.0767	7.7644	1.3123	5.7183	0.190185649	0.828727120
2.25	5.2880	4.4874	0.8006	6.5189	0.116027304	0.944754424
2.50	1.5578	1.3239	0.2339	6.7528	0.033898059	0.978652483
2.75	0.2704	0.2606	0.0098	6.7626	0.001420269	0.980072753
3.00	0.0837	0	0.0837	6.8463	0.012130259	0.992203012
3.25	0.0276	0	0.0276	6.8739	0.003999942	0.996202954
3.50	0.0116	0	0.0116	6.8855	0.001681135	0.997884089
3.75	0.0095	0	0.0095	6.8950	0.001376792	0.999260880
4.00	0.0051	0	0.0051	6.9001	0.000739120	1

TOTAL WT. 41.1301 grams
 CO3 WT. 6.9001 grams
 E % CARBONATE 16.7763

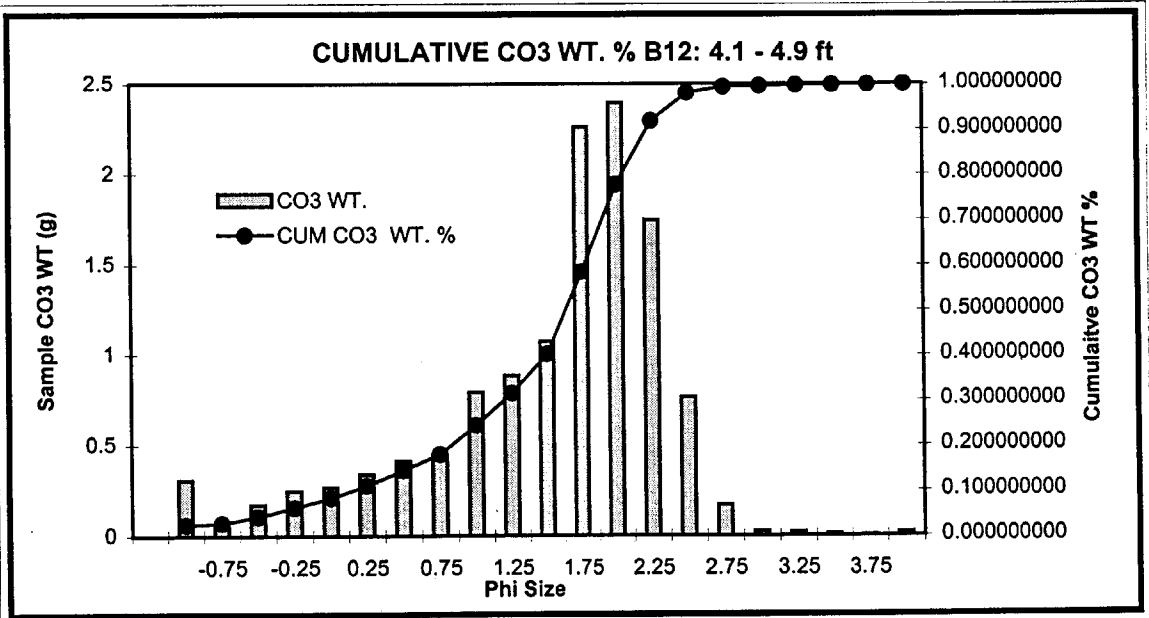


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B12: 4.1 - 4.9 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.3075	0	0.3075	0.3075	0.024777406	0.024777406
-0.75	0.0464	0	0.0464	0.3539	0.003738770	0.028516176
-0.50	0.1724	0	0.1724	0.5263	0.013891463	0.042407639
-0.25	0.2528	0.0041	0.2487	0.7750	0.020039483	0.062447121
0.00	0.2915	0.0250	0.2665	1.0415	0.021473752	0.083920873
0.25	0.4625	0.1231	0.3394	1.3809	0.027347810	0.111268684
0.50	0.6363	0.2255	0.4108	1.7917	0.033101003	0.144369687
0.75	0.9025	0.4561	0.4464	2.2381	0.035969542	0.180339229
1.00	1.8244	1.0325	0.7919	3.0300	0.063808872	0.244148100
1.25	3.1149	2.2282	0.8867	3.9167	0.071447565	0.315595665
1.50	4.2681	3.1924	1.0757	4.9924	0.086676604	0.402272269
1.75	9.3226	7.0617	2.2609	7.2533	0.182176383	0.584448652
2.00	10.9066	8.5122	2.3944	9.6477	0.192933403	0.777382056
2.25	9.6274	7.8794	1.7480	11.3957	0.140848475	0.918230531
2.50	4.2217	3.4573	0.7644	12.1601	0.061593006	0.979823537
2.75	1.2964	1.1252	0.1712	12.3313	0.013794771	0.993618307
3.00	0.5214	0.4960	0.0254	12.3567	0.002046654	0.995664961
3.25	0.2453	0.2250	0.0203	12.3770	0.001635712	0.997300673
3.50	0.0752	0.0662	0.0090	12.3860	0.000725192	0.998025865
3.75	0.0442	0.0399	0.0043	12.3903	0.000346481	0.998372346
4.00	0.0202	0	0.0202	12.4105	0.001627654	1

TOTAL WT. 48.5603 grams
CO3 WT. 12.4105 grams
E % CARBONATE 25.5569

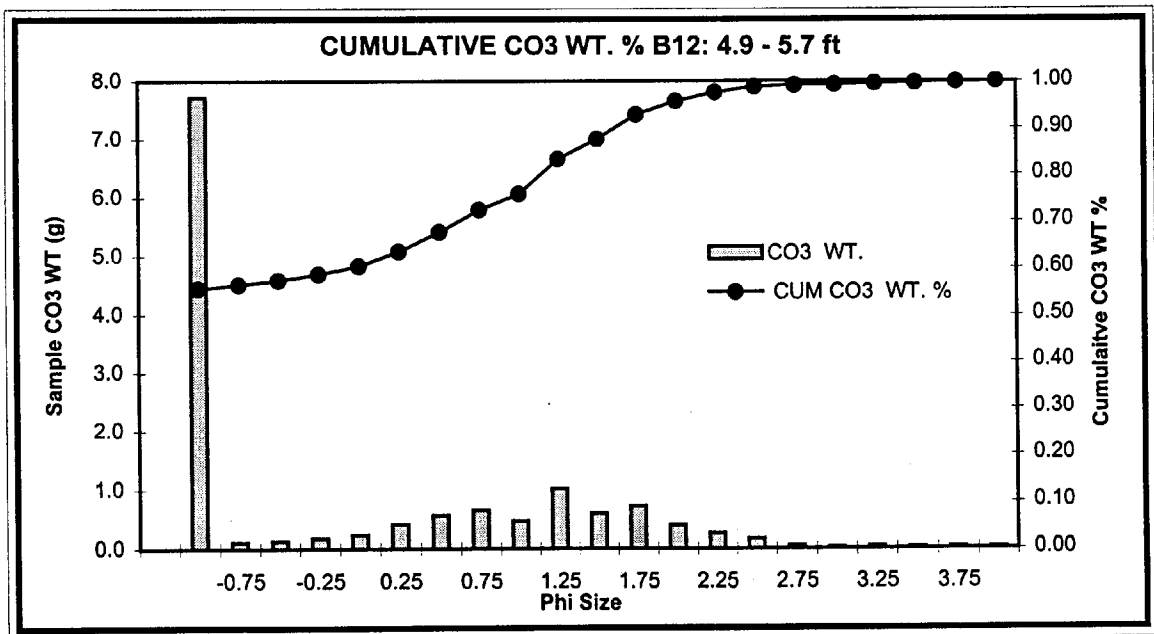


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B12: 4.9 - 5.7 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	7.7120	0	7.7120	7.7120	0.555891936	0.555891936
-0.75	0.1180	0	0.1180	7.8300	0.008505608	0.564397543
-0.50	0.1302	0	0.1302	7.9602	0.009385001	0.573782545
-0.25	0.1825	0	0.1825	8.1427	0.013154860	0.586937404
0.00	0.2742	0.0318	0.2424	8.3851	0.017472537	0.604409941
0.25	0.5312	0.1080	0.4232	8.8083	0.030504858	0.634914800
0.50	0.9788	0.4045	0.5743	9.3826	0.041396361	0.676311161
0.75	1.7641	1.1081	0.6560	10.0386	0.047285414	0.723596575
1.00	3.2911	2.8127	0.4784	10.5170	0.034483753	0.758080328
1.25	5.6678	4.6424	1.0254	11.5424	0.073912291	0.831992619
1.50	4.9454	4.3427	0.6027	12.1451	0.043443474	0.875436093
1.75	7.5004	6.7758	0.7246	12.8697	0.052230199	0.927666292
2.00	5.8435	5.4409	0.4026	13.2723	0.029019981	0.956686273
2.25	3.7544	3.4894	0.2650	13.5373	0.019101577	0.975787850
2.50	1.4513	1.2869	0.1644	13.7017	0.011850186	0.987638036
2.75	0.5316	0.4856	0.0460	13.7477	0.003315745	0.990953781
3.00	0.2643	0.2400	0.0243	13.7720	0.001751579	0.992705360
3.25	0.1327	0.0980	0.0347	13.8067	0.002501225	0.995206585
3.50	0.0518	0.0322	0.0196	13.8263	0.001412796	0.996619381
3.75	0.0516	0.0249	0.0267	13.8530	0.001924574	0.998543955
4.00	0.0372	0.0170	0.0202	13.8732	0.001456045	1

TOTAL WT. 45.2141 grams
CO3 WT. 13.8732 grams
% CARBONATE 30.6833

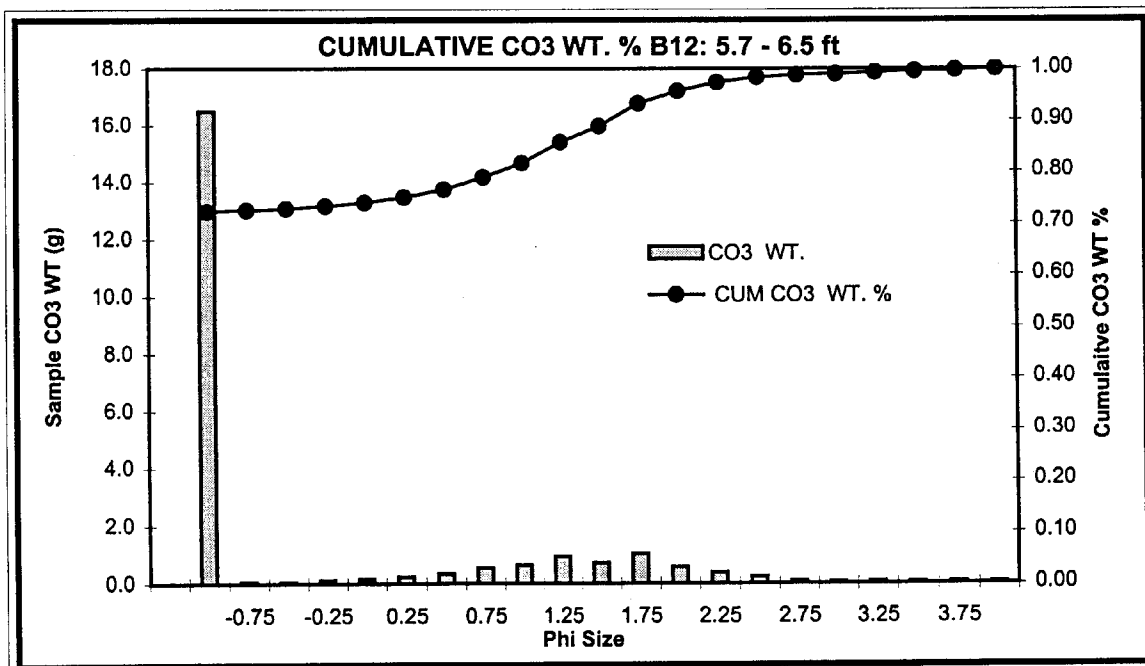


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B12: 5.7 - 6.5 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	16.4927	0	16.4927	16.4927	0.721424416	0.721424416
-0.75	0.0579	0	0.0579	16.5506	0.002532664	0.723957080
-0.50	0.0705	0	0.0705	16.6211	0.003083814	0.727040894
-0.25	0.1218	0	0.1218	16.7429	0.005327781	0.732368675
0.00	0.1660	0.0138	0.1522	16.8951	0.006657539	0.739026215
0.25	0.3300	0.0940	0.2360	17.1311	0.010323122	0.749349337
0.50	0.6374	0.2905	0.3469	17.4780	0.015174115	0.764523452
0.75	1.2995	0.7591	0.5404	18.0184	0.023638201	0.788161653
1.00	2.7193	2.0967	0.6226	18.6410	0.027233797	0.815395450
1.25	4.9878	4.0574	0.9304	19.5714	0.040697598	0.856093048
1.50	5.1276	4.4177	0.7099	20.2813	0.031052477	0.887145525
1.75	8.3562	7.3408	1.0154	21.2967	0.044415672	0.931561197
2.00	7.1391	6.5789	0.5602	21.8569	0.024504293	0.956065491
2.25	5.2631	4.8764	0.3867	22.2436	0.016915049	0.972980539
2.50	2.5242	2.2889	0.2353	22.4789	0.010292503	0.983273042
2.75	1.2601	1.1676	0.0925	22.5714	0.004046139	0.987319181
3.00	0.7921	0.7470	0.0451	22.6165	0.001972766	0.989291948
3.25	0.5016	0.4250	0.0766	22.6931	0.003350641	0.992642588
3.50	0.1802	0.1312	0.0490	22.7421	0.002143360	0.994785948
3.75	0.1470	0.0809	0.0661	22.8082	0.002891349	0.997677297
4.00	0.0931	0.0400	0.0531	22.8613	0.002322703	1

TOTAL WT. 58.2672 grams
CO3 WT. 22.8613 grams
% CARBONATE 39.2353

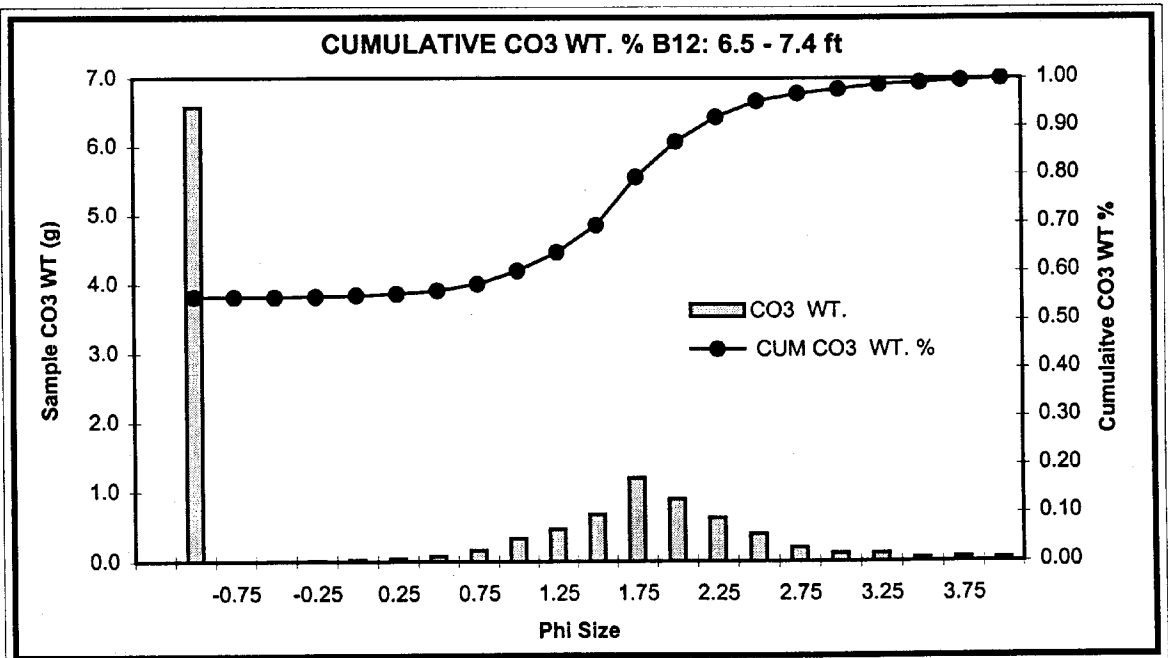


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B12: 6.5 - 7.4 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	6.5756	0	6.5756	6.5756	0.545507338	0.545507338
-0.75	0.0000	0	0	6.5756	0	0.545507338
-0.50	0.0062	0	0.0062	6.5818	0.000514348	0.546021686
-0.25	0.0137	0	0.0137	6.5955	0.001136543	0.547158228
0.00	0.0317	0.0018	0.0299	6.6254	0.002480484	0.549638712
0.25	0.0649	0.0230	0.0419	6.6673	0.003475996	0.553114708
0.50	0.2005	0.1215	0.0790	6.7463	0.006553787	0.559668495
0.75	0.6411	0.4831	0.1580	6.9043	0.013107573	0.572776068
1.00	1.9508	1.6207	0.3301	7.2344	0.027384873	0.600160941
1.25	4.5471	4.0884	0.4587	7.6931	0.038053442	0.638214383
1.50	5.0632	4.3887	0.6745	8.3676	0.055956065	0.694170448
1.75	8.4701	7.2768	1.1933	9.5609	0.098995363	0.793165811
2.00	7.2051	6.3149	0.8902	10.4511	0.073850391	0.867016202
2.25	4.9657	4.3444	0.6213	11.0724	0.051542629	0.918558831
2.50	2.0746	1.6809	0.3937	11.4661	0.032661086	0.951219917
2.75	0.8658	0.6706	0.1952	11.6613	0.016193660	0.967413577
3.00	0.4647	0.3490	0.1157	11.7770	0.009598394	0.977011971
3.25	0.2545	0.1400	0.1145	11.8915	0.009498843	0.986510814
3.50	0.0916	0.0412	0.0504	11.9419	0.004181150	0.990691964
3.75	0.0939	0.0299	0.0640	12.0059	0.005309397	0.996001361
4.00	0.0642	0.0160	0.0482	12.0541	0.003998639	1

TOTAL WT. 43.6450 grams
 CO3 WT. 12.0541 grams
 % CARBONATE 27.6185

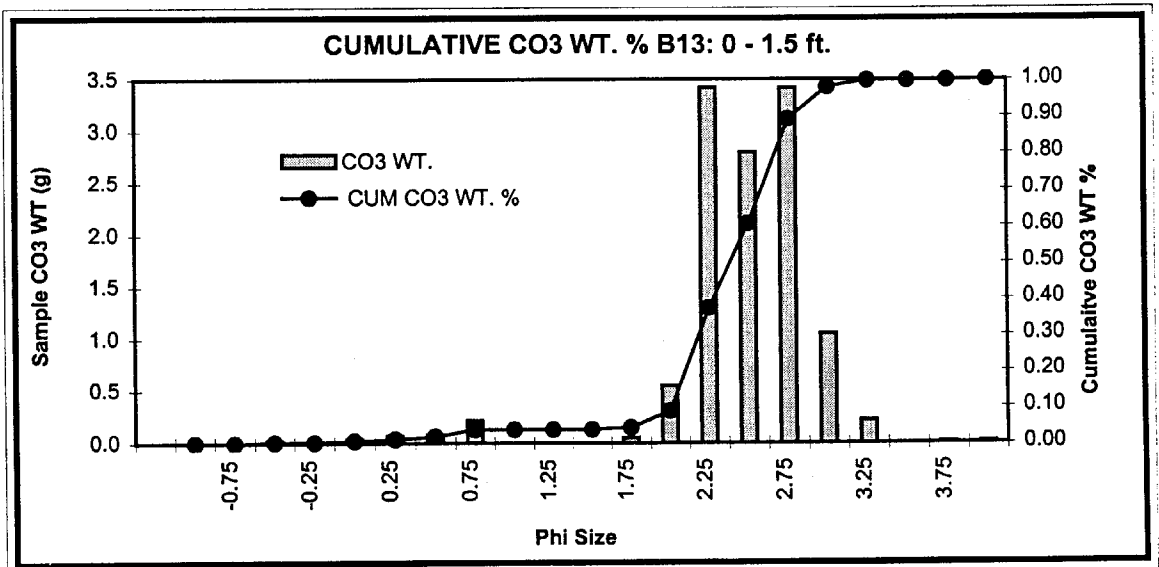


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B13: 0 - 1.5 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0	0	0	0	0	0
-0.75	0	0	0	0	0	0
-0.50	0.0288	0	0.0288	0.0288	0.002404408	0.002404408
-0.25	0	0	0	0.0288	0	0.002404408
0.00	0.0409	0	0.0409	0.0697	0.003414593	0.005819002
0.25	0.0736	0.0017	0.0719	0.1416	0.006002672	0.011821673
0.50	0.0906	0.0057	0.0849	0.2265	0.007087995	0.018909668
0.75	0.2542	0.0364	0.2178	0.4443	0.018183336	0.037093004
1.00	0.6108	0.6108	0.0000	0.4443	0	0.037093004
1.25	1.6658	1.6658	0.0000	0.4443	0	0.037093004
1.50	3.8271	3.8271	0.0000	0.4443	0	0.037093004
1.75	6.8325	6.7837	0.0488	0.4931	0.004074136	0.041167140
2.00	8.2851	7.7335	0.5516	1.0447	0.046051094	0.087218233
2.25	9.0890	5.6706	3.4184	4.4631	0.285389881	0.372608115
2.50	6.6703	3.8742	2.7961	7.2592	0.233436300	0.606044415
2.75	4.6288	1.2119	3.4169	10.6761	0.285264652	0.891309067
3.00	1.3211	0.2655	1.0556	11.7317	0.088128235	0.979437302
3.25	0.3501	0.1316	0.2185	11.9502	0.018241777	0.997679078
3.50	0.0702	0.0694	0.0008	11.9510	0.000066789	0.997745867
3.75	0.0701	0.0616	0.0085	11.9595	0.000709634	0.998455502
4.00	0.0482	0.0297	0.0185	11.9780	0.001544498	1

TOTAL WT. 43.9572 grams
CO3 WT. 11.9780 grams
% CARBONATE 27.2492

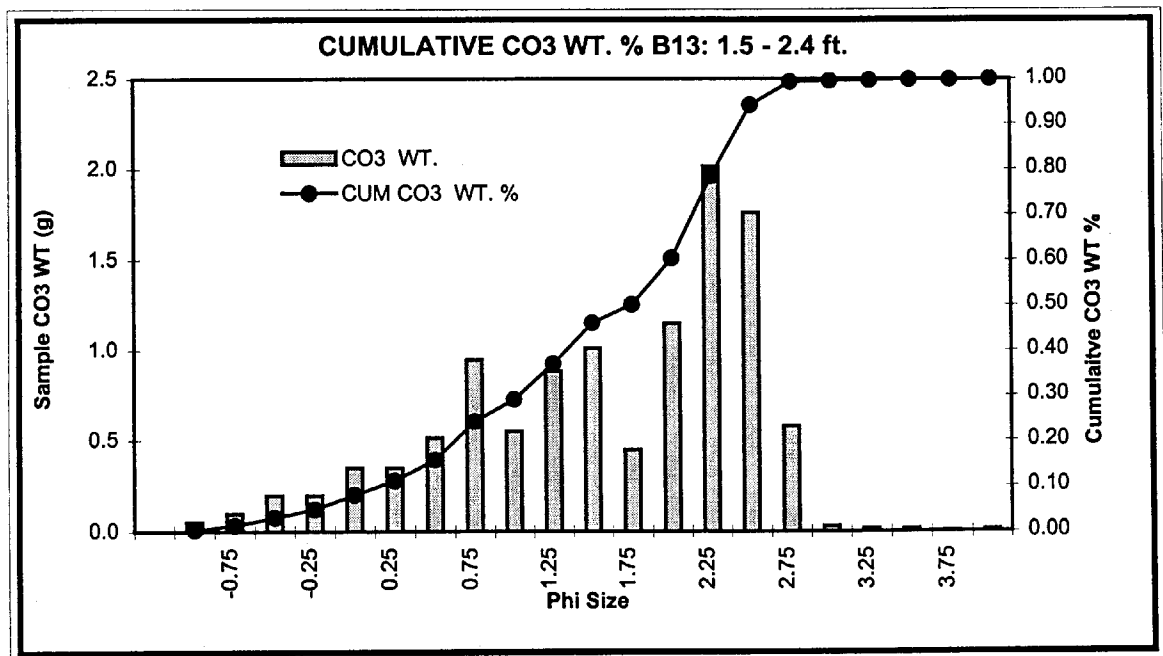


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B13: 1.5 - 2.4 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.0506	0	0.0506	0.0506	0.004523390	0.004523390
-0.75	0.1002	0	0.1002	0.1508	0.008957385	0.013480776
-0.50	0.1988	0	0.1988	0.3496	0.017771739	0.031252514
-0.25	0.1989	0	0.1989	0.5485	0.017780678	0.049033192
0.00	0.3496	0	0.3496	0.8981	0.031252514	0.080285707
0.25	0.3492	0	0.3492	1.2473	0.031216756	0.111502463
0.50	0.5893	0.0728	0.5165	1.7638	0.046172550	0.157675013
0.75	1.0746	0.1249	0.9497	2.7135	0.084898492	0.242573505
1.00	1.5096	0.9585	0.5511	3.2646	0.049265620	0.291839125
1.25	2.7777	1.8930	0.8847	4.1493	0.079087813	0.370926937
1.50	5.0875	4.0751	1.0124	5.1617	0.090503562	0.461430500
1.75	8.4858	8.0371	0.4487	5.6104	0.040111565	0.501542065
2.00	11.8359	10.6863	1.1496	6.7600	0.102768565	0.604310630
2.25	8.3421	6.3272	2.0149	8.7749	0.180122114	0.784432744
2.50	4.9215	3.1622	1.7593	10.5342	0.157272735	0.941705479
2.75	1.3290	0.7511	0.5779	11.1121	0.051661407	0.993366886
3.00	0.3862	0.3574	0.0288	11.1409	0.002574578	0.995941464
3.25	0.2469	0.2320	0.0149	11.1558	0.001331986	0.997273451
3.50	0.1012	0.0859	0.0153	11.1711	0.001367744	0.998641195
3.75	0.0508	0.0481	0.0027	11.1738	0.000241367	0.998882562
4.00	0.0356	0.0231	0.0125	11.1863	0.001117438	1

TOTAL WT. 48.0210 grams
CO3 WT. 11.1863 grams
% CARBONATE 23.2946

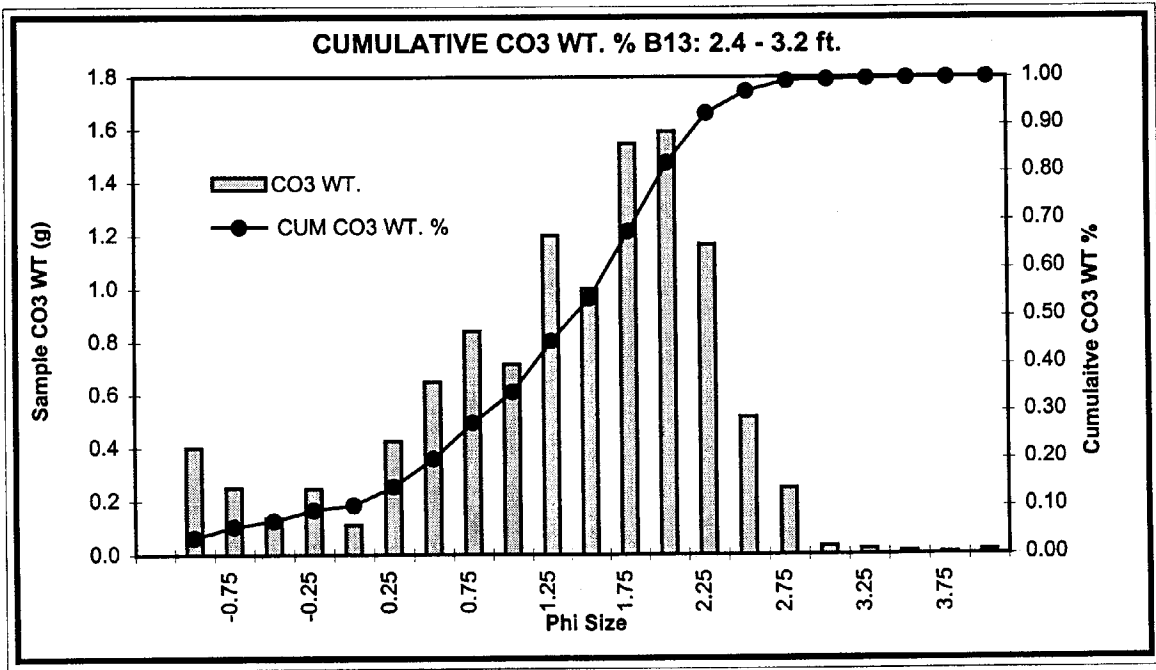


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B13: 2.4 - 3.2 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.4014	0	0.4014	0.4014	0.036001614	0.036001614
-0.75	0.2501	0	0.2501	0.6515	0.022431499	0.058433114
-0.50	0.1399	0	0.1399	0.7914	0.012547648	0.070980761
-0.25	0.2465	0	0.2465	1.0379	0.022108615	0.093089376
0.00	0.1129	0	0.1129	1.1508	0.010126015	0.103215391
0.25	0.4267	0	0.4267	1.5775	0.038270774	0.141486165
0.50	0.6583	0.0092	0.6491	2.2266	0.058217857	0.199704023
0.75	1.2439	0.4011	0.8428	3.0694	0.075590834	0.275294856
1.00	1.7423	1.0255	0.7168	3.7862	0.064289878	0.339584735
1.25	3.7263	2.5265	1.1998	4.9860	0.107610207	0.447194941
1.50	6.2874	5.2850	1.0024	5.9884	0.089905377	0.537100318
1.75	8.5988	7.0515	1.5473	7.5357	0.138777524	0.675877842
2.00	8.5104	6.9170	1.5934	9.1291	0.142912238	0.818790080
2.25	4.7133	3.5472	1.1661	10.2952	0.104587650	0.923377730
2.50	2.6671	2.1487	0.5184	10.8136	0.046495359	0.969873088
2.75	1.1596	0.9117	0.2479	11.0615	0.022234181	0.992107269
3.00	0.6994	0.6681	0.0313	11.0928	0.002807301	0.994914570
3.25	0.4544	0.4326	0.0218	11.1146	0.001955245	0.996869815
3.50	0.1666	0.1548	0.0118	11.1264	0.001058343	0.997928158
3.75	0.0707	0.0632	0.0075	11.1339	0.000672676	0.998600834
4.00	0.0566	0.0410	0.0156	11.1495	0.001399166	1

TOTAL WT. **42.3326** grams
 CO3 WT. **11.1495** grams
 % CARBONATE **26.3379**

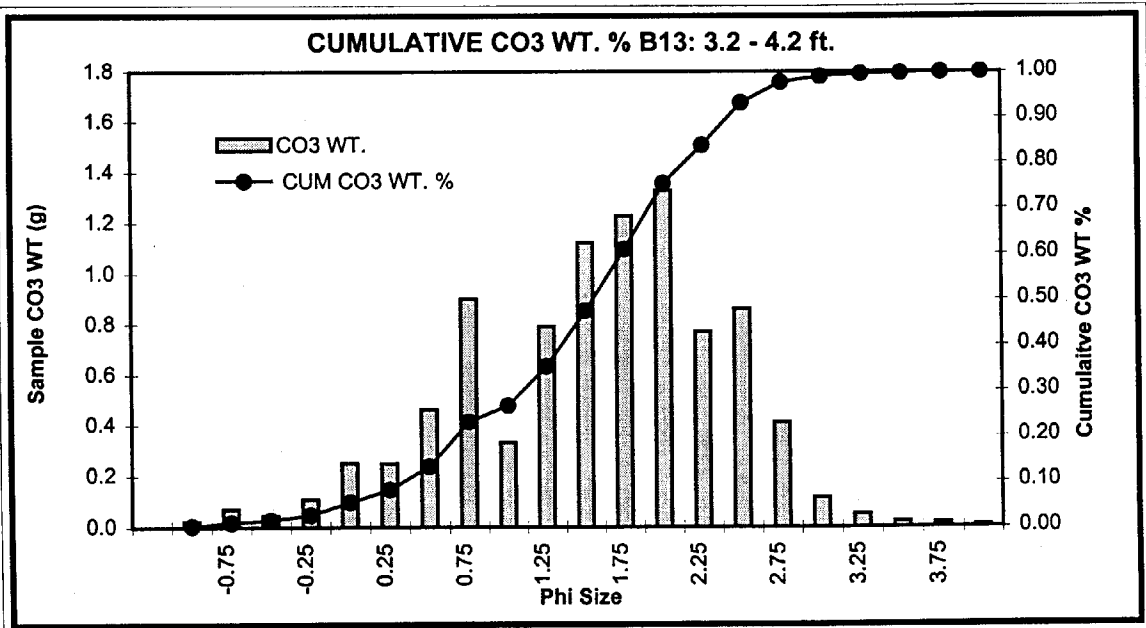


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B13: 3.2 - 4.2 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.0242	0	0.0242	0.0242	0.002634587	0.002634587
-0.75	0.0710	0	0.0710	0.0952	0.007729574	0.010364161
-0.50	0.0453	0	0.0453	0.1405	0.004931686	0.015295847
-0.25	0.1086	0	0.1086	0.2491	0.011822982	0.027118829
0.00	0.2509	0	0.2509	0.5000	0.027314790	0.054433618
0.25	0.2508	0	0.2508	0.7508	0.027303903	0.081737521
0.50	0.4864	0.0209	0.4655	1.2163	0.050677699	0.132415220
0.75	1.0079	0.1049	0.9030	2.1193	0.098307114	0.230722334
1.00	1.1209	0.7897	0.3312	2.4505	0.036056829	0.266779163
1.25	2.7559	1.9633	0.7926	3.2431	0.086288172	0.353067334
1.50	4.8596	3.7375	1.1221	4.3652	0.122159926	0.475227260
1.75	7.1472	5.9189	1.2283	5.5935	0.133721626	0.608948887
2.00	8.6917	7.3643	1.3274	6.9209	0.144510370	0.753459256
2.25	6.1293	5.3553	0.7740	7.6949	0.084263241	0.837722497
2.50	4.4710	3.6087	0.8623	8.5572	0.093876218	0.931598715
2.75	1.6737	1.2596	0.4141	8.9713	0.045081923	0.976680638
3.00	0.7764	0.6608	0.1156	9.0869	0.012585053	0.989265690
3.25	0.4468	0.3956	0.0512	9.1381	0.005574003	0.994839693
3.50	0.1408	0.1189	0.0219	9.1600	0.002384192	0.997223885
3.75	0.0623	0.0456	0.0167	9.1767	0.001818083	0.999041968
4.00	0.0356	0.0268	0.0088	9.1855	0.000958032	1

TOTAL WT. 40.5563
 CO3 WT. 9.1855
 % CARBONATE 22.6488

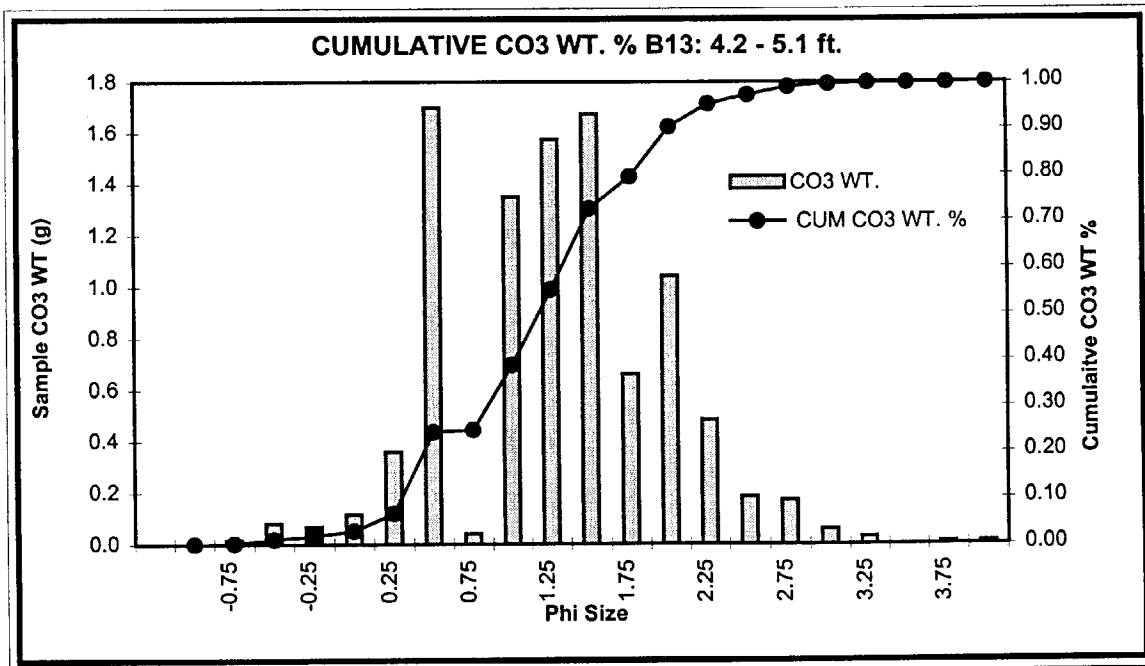


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B13: 4.2 - 5.1 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0	0	0	0	0	0
-0.75	0.0161	0	0.0161	0.0161	0.001671078	0.001671078
-0.50	0.0812	0	0.0812	0.0973	0.008428045	0.010099123
-0.25	0.0673	0	0.0673	0.1646	0.006985313	0.017084436
0.00	0.1164	0	0.1164	0.281	0.012081582	0.029166018
0.25	0.3607	0	0.3607	0.6417	0.037438373	0.066604390
0.50	1.7973	0.0964	1.7009	2.3426	0.176542633	0.243147024
0.75	0.8431	0.8024	0.0407	2.3833	0.004224402	0.247371426
1.00	2.3817	1.0311	1.3506	3.7339	0.140183715	0.387555140
1.25	4.6032	3.0301	1.5731	5.3070	0.163277804	0.550832944
1.50	6.4667	4.7936	1.6731	6.9801	0.173657170	0.724490114
1.75	6.3639	5.6991	0.6648	7.6449	0.069002024	0.793492138
2.00	6.5948	5.5513	1.0435	8.6884	0.108308682	0.901800820
2.25	3.7294	3.2436	0.4858	9.1742	0.050422959	0.952223779
2.50	2.2801	2.0968	0.1833	9.3575	0.019025378	0.971249157
2.75	0.7362	0.5658	0.1704	9.5279	0.017686439	0.988935596
3.00	0.3813	0.3240	0.0573	9.5852	0.005947377	0.994882973
3.25	0.1963	0.1679	0.0284	9.6136	0.002947740	0.997830713
3.50	0.0784	0.0784	0.0000	9.6136	0	0.997830713
3.75	0.0432	0.0337	0.0095	9.6231	0.000986040	0.998816752
4.00	0.0357	0.0243	0.0114	9.6345	0.001183248	1

TOTAL WT. 37.1730 grams
CO3 WT. 9.6345 grams
% CARBONATE 25.9180

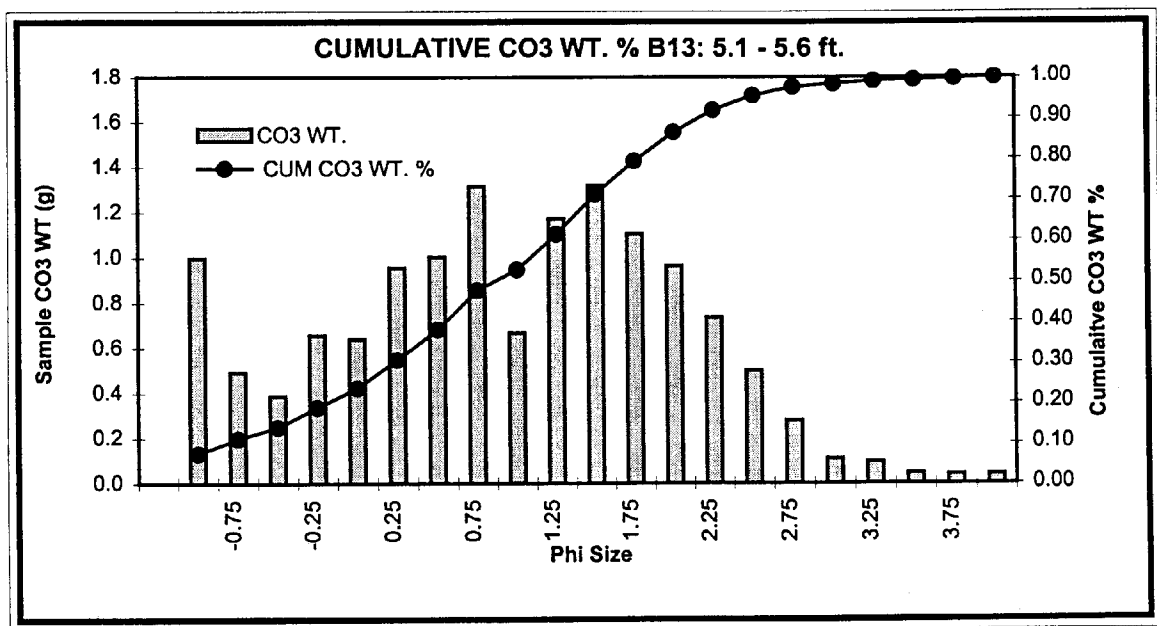


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B13: 5.1 - 5.6 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.9969	0	0.9969	0.9969	0.073706858	0.073706858
-0.75	0.4910	0	0.4910	1.4879	0.036302606	0.110009464
-0.50	0.3868	0	0.3868	1.8747	0.028598468	0.138607932
-0.25	0.6574	0	0.6574	2.5321	0.048605566	0.187213498
0.00	0.6408	0	0.6408	3.1729	0.047378227	0.234591725
0.25	0.9565	0	0.9565	4.1294	0.070719841	0.305311567
0.50	1.2654	0.2609	1.0045	5.1339	0.074268772	0.379580339
0.75	2.0548	0.7412	1.3136	6.4475	0.097122409	0.476702747
1.00	2.1972	1.5288	0.6684	7.1159	0.049418863	0.526121610
1.25	4.0030	2.8318	1.1712	8.2871	0.086593914	0.612715524
1.50	5.8158	4.4962	1.3196	9.6067	0.097566025	0.710281549
1.75	6.4571	5.3531	1.1040	10.7107	0.081625410	0.791906959
2.00	6.6374	5.6724	0.9650	11.6757	0.071348298	0.863255257
2.25	3.6682	2.9332	0.7350	12.4107	0.054343004	0.917598261
2.50	2.0561	1.5568	0.4993	12.9100	0.036916275	0.954514536
2.75	0.6911	0.4104	0.2807	13.1907	0.020753852	0.975268388
3.00	0.3786	0.2674	0.1112	13.3019	0.008221690	0.983490078
3.25	0.2391	0.1428	0.0963	13.3982	0.007120043	0.990610120
3.50	0.0983	0.0522	0.0461	13.4443	0.003408452	0.994018573
3.75	0.0563	0.0158	0.0405	13.4848	0.002994410	0.997012983
4.00	0.0491	0.0087	0.0404	13.5252	0.002987017	1

TOTAL WT. 39.7969 grams
CO3 WT. 13.5252 grams
% CARBONATE 33.9856

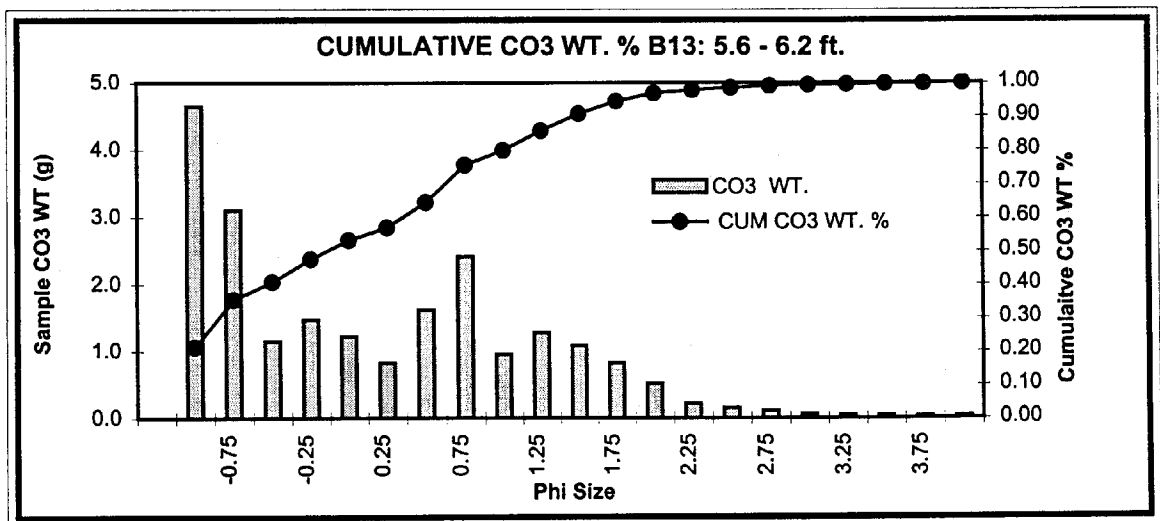


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B13: 5.6 - 6.2 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	4.6470	0	4.6470	4.6470	0.212952185	0.212952185
-0.75	3.1014	0	3.1014	7.7484	0.142123931	0.355076117
-0.50	1.1489	0	1.1489	8.8973	0.052649186	0.407725302
-0.25	1.4871	0.0094	1.4777	10.3750	0.067716687	0.475441989
0.00	1.3431	0.1158	1.2273	11.6023	0.056241923	0.531683912
0.25	1.7057	0.8743	0.8314	12.4337	0.038099515	0.569783428
0.50	2.6239	1.0001	1.6238	14.0575	0.074411827	0.644195254
0.75	3.5299	1.1209	2.4090	16.4665	0.110394193	0.754589447
1.00	3.4887	2.5334	0.9553	17.4218	0.043777324	0.798366771
1.25	4.6293	3.3446	1.2847	18.7065	0.058872320	0.857239091
1.50	5.1514	4.0671	1.0843	19.7908	0.049688843	0.906927934
1.75	5.0053	4.1809	0.8244	20.6152	0.037778735	0.944706669
2.00	4.5123	3.9984	0.5139	21.1291	0.023549845	0.968256514
2.25	2.5706	2.3544	0.2162	21.3453	0.009907524	0.978164038
2.50	1.6725	1.5227	0.1498	21.4951	0.006864695	0.985028733
2.75	0.4411	0.3295	0.1116	21.6067	0.005114152	0.990142885
3.00	0.2062	0.1451	0.0611	21.6678	0.002799952	0.992942837
3.25	0.1444	0.0966	0.0478	21.7156	0.002190470	0.995133307
3.50	0.0939	0.0504	0.0435	21.7591	0.001993419	0.997126726
3.75	0.0607	0.0343	0.0264	21.7855	0.001209799	0.998336526
4.00	0.0560	0.0197	0.0363	21.8218	0.001663474	1

TOTAL WT.	47.6194	grams
CO3 WT.	21.8218	grams
% CARBONATE	45.8254	

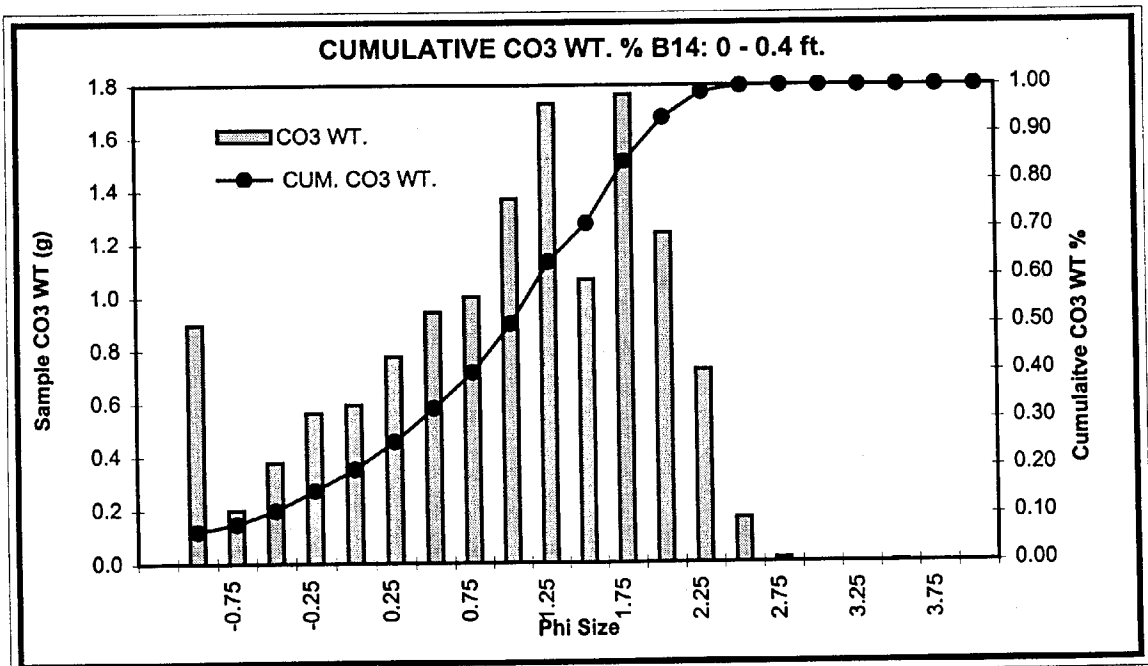


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B14: 0 - 0.4 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM. CO3 WT. %
<-1.00	0.8970	0	0.8970	0.8970	0.066726177	0.066726177
-0.75	0.2000	0	0.2000	1.0970	0.014877631	0.081603809
-0.50	0.3780	0	0.3780	1.4750	0.028118723	0.109722532
-0.25	0.5650	0	0.5650	2.0400	0.042029309	0.151751841
0.00	0.6900	0.0940	0.5960	2.6360	0.044335342	0.196087183
0.25	0.9610	0.1820	0.7790	3.4150	0.057948375	0.254035558
0.50	1.3850	0.4410	0.9440	4.3590	0.070222421	0.324257978
0.75	2.0120	1.0100	1.0020	5.3610	0.074536934	0.398794912
1.00	3.8650	2.4950	1.3700	6.7310	0.101911776	0.500706687
1.25	6.1530	4.4230	1.7300	8.4610	0.128691512	0.629398200
1.50	5.9210	4.8560	1.0650	9.5260	0.079223388	0.708621587
1.75	9.2470	7.4830	1.7640	11.2900	0.131220710	0.839842297
2.00	6.6930	5.4530	1.2400	12.5300	0.092241315	0.932083612
2.25	3.3910	2.6640	0.7270	13.2570	0.054080190	0.986163803
2.50	0.7820	0.6150	0.1670	13.4240	0.012422822	0.998586625
2.75	0.1430	0.1280	0.0150	13.4390	0.001115822	0.999702447
3.00	0.0630	0.0630	0	13.4390	0	0.999702447
3.25	0.0330	0.0330	0	13.4390	0	0.999702447
3.50	0.0230	0.0190	0.0040	13.4430	0.000297553	1
3.75	0.0190	0.0190	0	13.4430	0	1
4.00	0.0130	0.0130	0	13.4430	0	1

TOTAL WT. 43.4340 grams
 CO3 WT. 13.4430 grams
 % CARBONATE 30.9504

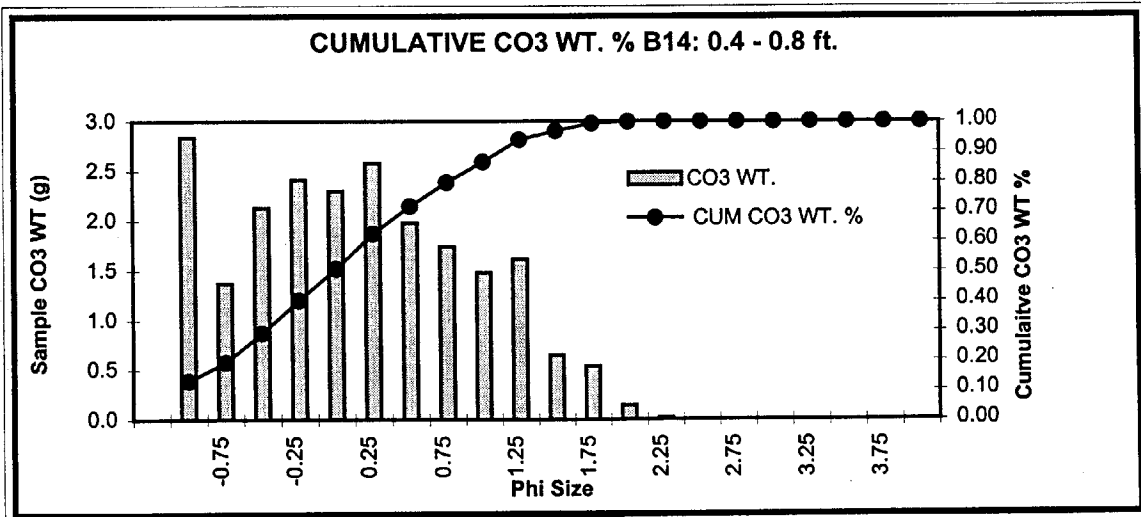


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B14: 0.4 - 0.8 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	2.8410	0	2.8410	2.8410	0.130237462	0.130237462
-0.75	1.3880	0.0140	1.3740	4.2150	0.062987073	0.193224535
-0.50	2.2050	0.0750	2.1300	6.3450	0.097643715	0.290868250
-0.25	2.5640	0.1500	2.4140	8.7590	0.110662877	0.401531127
0.00	2.7250	0.4220	2.3030	11.0620	0.105574402	0.507105529
0.25	3.4990	0.9180	2.5810	13.6430	0.118318511	0.625424040
0.50	3.4120	1.4260	1.9860	15.6290	0.091042450	0.716466489
0.75	3.7750	2.0330	1.7420	17.3710	0.079856973	0.796323462
1.00	4.6990	3.2160	1.4830	18.8540	0.067983864	0.864307326
1.25	5.1610	3.5450	1.6160	20.4700	0.074080865	0.938388191
1.50	3.2980	2.6500	0.6480	21.1180	0.029705694	0.968093885
1.75	3.1640	2.6250	0.5390	21.6570	0.024708903	0.992802787
2.00	1.2030	1.0630	0.1400	21.7970	0.006417897	0.999220684
2.25	0.3520	0.3350	0.0170	21.8140	0.000779316	1
2.50	0.0740	0.0740	0	21.8140	0	1
2.75	0.0230	0.0230	0	21.8140	0	1
3.00	0.0200	0.0200	0	21.8140	0	1
3.25	0.0120	0.0120	0	21.8140	0	1
3.50	0.0100	0.0100	0	21.8140	0	1
3.75	0.0100	0.0100	0	21.8140	0	1
4.00	0	0	0	21.8140	0	1

TOTAL WT. 40.4350 grams
CO3 WT. 21.8140 grams
% CARBONATE 53.9483

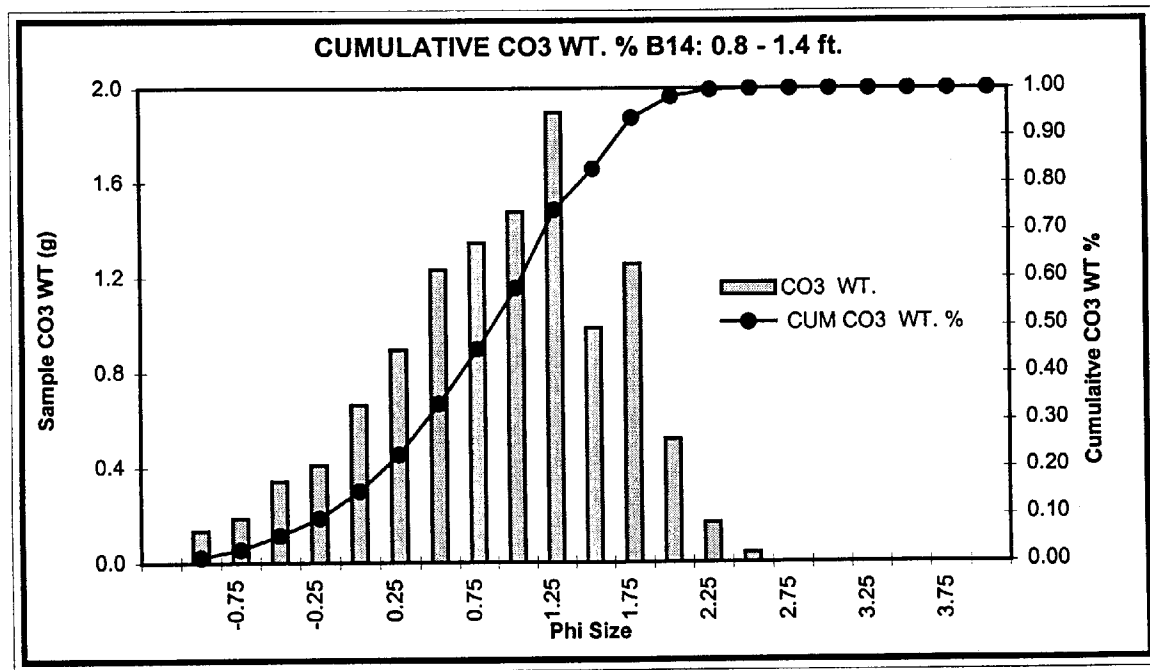


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE 14: 0.8 -1.4 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.1340	0	0.1340	0.1340	0.011594705	0.011594705
-0.75	0.1850	0	0.1850	0.3190	0.016007614	0.027602319
-0.50	0.3440	0.0020	0.3420	0.6610	0.029592455	0.057194774
-0.25	0.4270	0.0180	0.4090	1.0700	0.035389807	0.092584581
0.00	0.7640	0.0990	0.6650	1.7350	0.057540884	0.150125465
0.25	1.1630	0.2640	0.8990	2.6340	0.077788353	0.227913818
0.50	1.9390	0.7060	1.2330	3.8670	0.106688587	0.334602405
0.75	2.6290	1.2830	1.3460	5.2130	0.116466211	0.451068616
1.00	4.4680	2.9900	1.4780	6.6910	0.127887860	0.578956477
1.25	6.6110	4.7140	1.8970	8.5880	0.164142944	0.743099420
1.50	5.5260	4.5380	0.9880	9.5760	0.085489314	0.828588734
1.75	6.4210	5.1660	1.2550	10.8310	0.108592195	0.937180929
2.00	2.8700	2.3510	0.5190	11.3500	0.044907848	0.982088777
2.25	0.8280	0.6630	0.1650	11.5150	0.014277062	0.996365839
2.50	0.1740	0.1360	0.0380	11.5530	0.003288051	0.999653889
2.75	0.0440	0.0420	0.0020	11.5550	0.000173055	0.999826945
3.00	0.0260	0.0260	0	11.5550	0	0.999826945
3.25	0.0180	0.0180	0	11.5550	0	0.999826945
3.50	0.0110	0.0100	0.0010	11.5560	8.65276E-05	0.999913472
3.75	0.0110	0.0100	0.0010	11.5570	8.65276E-05	1
4.00	0.0050	0.0050	0	11.5570	0	1

TOTAL WT. 34.5980 grams
 CO3 WT. 11.5570 grams
 CARBONATE 33.4037

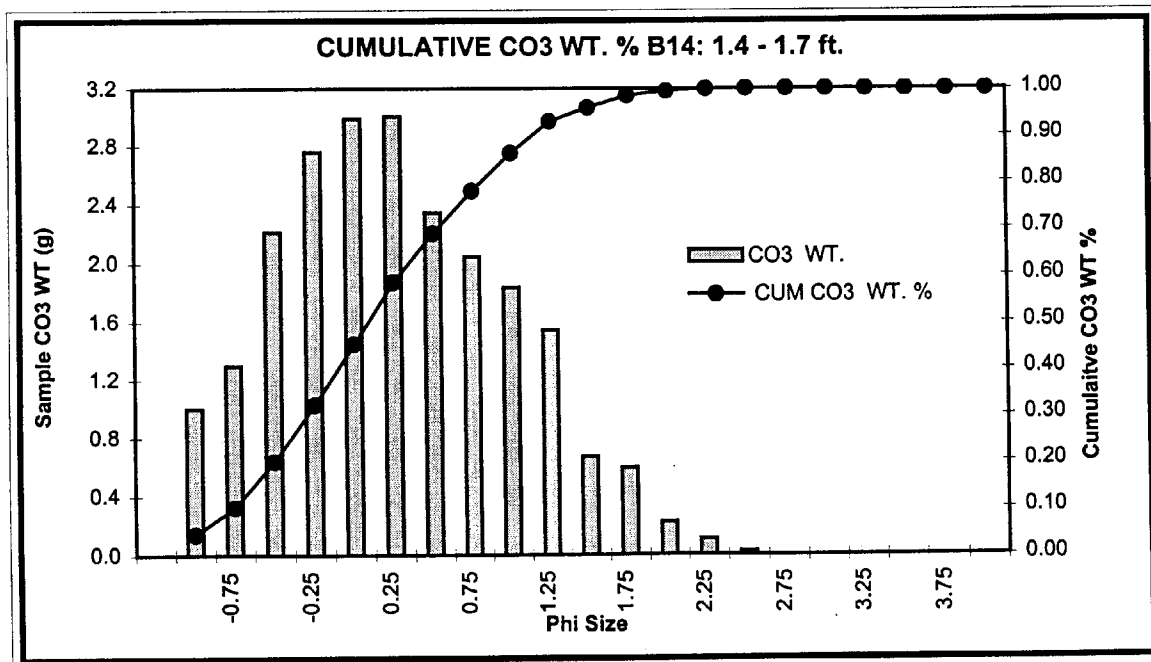


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B14: 1.4 - 1.7 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	1.0030	0	1.0030	1.0030	0.044241542	0.044241542
-0.75	1.3130	0.0130	1.3000	2.3030	0.057341979	0.101583521
-0.50	2.2640	0.0510	2.2130	4.5160	0.097613692	0.199197212
-0.25	3.0220	0.2580	2.7640	7.2800	0.121917869	0.321115081
0.00	3.6380	0.6470	2.9910	10.2710	0.131930660	0.453045741
0.25	4.3700	1.3630	3.0070	13.2780	0.132636408	0.585682149
0.50	4.2420	1.8950	2.3470	15.6250	0.103524326	0.689206475
0.75	4.4970	2.4520	2.0450	17.6700	0.090203343	0.779409819
1.00	5.4030	3.5650	1.8380	19.5080	0.081072736	0.860482555
1.25	5.5090	3.9620	1.5470	21.0550	0.068236955	0.928719510
1.50	3.5660	2.8940	0.6720	21.7270	0.029641392	0.958360902
1.75	3.5300	2.9360	0.5940	22.3210	0.026200873	0.984561775
2.00	1.5340	1.3120	0.2220	22.5430	0.009792246	0.994354021
2.25	0.5120	0.4070	0.1050	22.6480	0.004631468	0.998985488
2.50	0.1160	0.0950	0.0210	22.6690	0.000926294	0.999911782
2.75	0.0320	0.0320	0	22.6690	0	0.999911782
3.00	0.0300	0.0290	0.0010	22.6700	0.000044109	0.999955891
3.25	0.0220	0.0210	0.0010	22.6710	0.000044109	1
3.50	0.0080	0.0080	0	22.6710	0	1
3.75	0.0060	0.0060	0	22.6710	0	1
4.00	0.0040	0.0040	0	22.6710	0	1

OTAL WT. 44.6210 grams
 CO3 WT. 22.6710 grams
 E % CARBONATE 50.8079

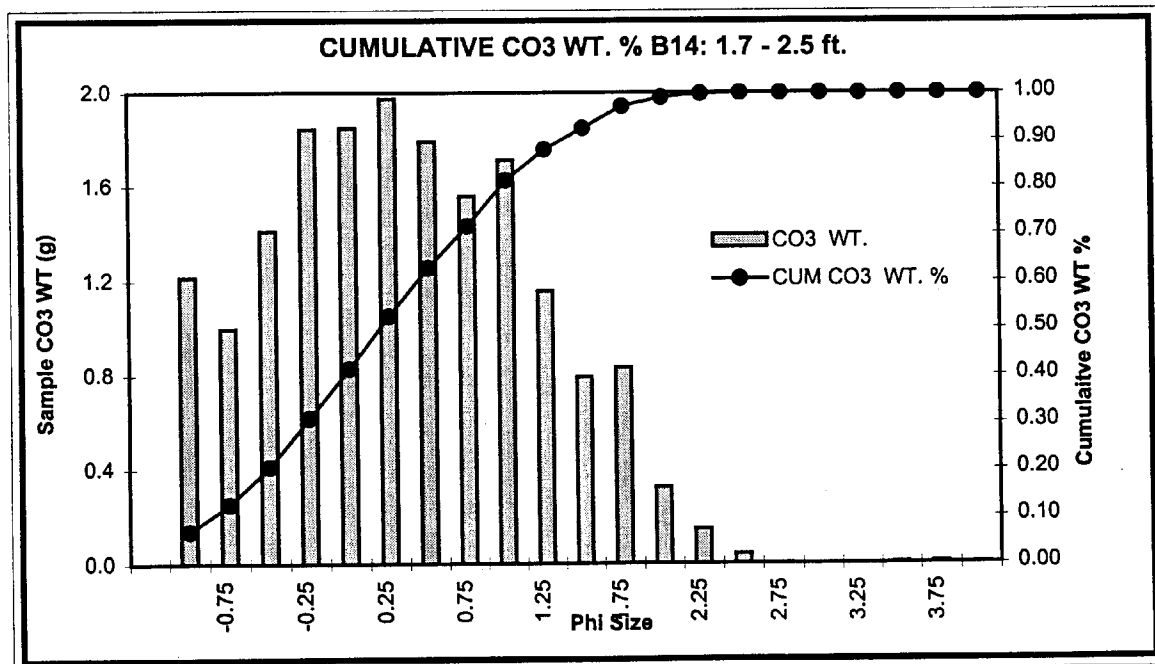


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B14: 1.7 -2.5 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	1.2160	0	1.2160	1.2160	0.068871772	0.068871772
-0.75	1.0000	0	1.0000	2.2160	0.056637970	0.125509742
-0.50	1.4260	0.0170	1.4090	3.6250	0.079802900	0.205312642
-0.25	1.9330	0.0890	1.8440	5.4690	0.104440417	0.309753058
0.00	2.1880	0.3400	1.8480	7.3170	0.104666969	0.414420027
0.25	2.7270	0.7530	1.9740	9.2910	0.111803353	0.526223380
0.50	3.0360	1.2440	1.7920	11.0830	0.101495242	0.627718623
0.75	3.4890	1.9290	1.5600	12.6430	0.088355233	0.716073856
1.00	4.9350	3.2220	1.7130	14.3560	0.097020843	0.813094699
1.25	5.4050	4.2480	1.1570	15.5130	0.065530131	0.878624830
1.50	3.9700	3.1770	0.7930	16.3060	0.044913910	0.923538740
1.75	4.1070	3.2760	0.8310	17.1370	0.047066153	0.970604894
2.00	1.7720	1.4500	0.3220	17.4590	0.018237426	0.988842320
2.25	0.6530	0.5070	0.1460	17.6050	0.008269144	0.997111464
2.50	0.1790	0.1400	0.0390	17.6440	0.002208881	0.999320344
2.75	0.0640	0.0620	0.0020	17.6460	0.000113276	0.999433620
3.00	0.0420	0.0420	0.0000	17.6460	0	0.999433620
3.25	0.0290	0.0290	0.0000	17.6460	0	0.999433620
3.50	0.0200	0.0160	0.0040	17.6500	0.000226552	0.999660172
3.75	0.0220	0.0170	0.0050	17.6550	0.000283190	0.999943362
4.00	0.0140	0.0130	0.0010	17.6560	0.000056638	1

TOTAL WT. 38.2270 grams
 CO3 WT. 17.6560 grams
 % CARBONATE 46.1872

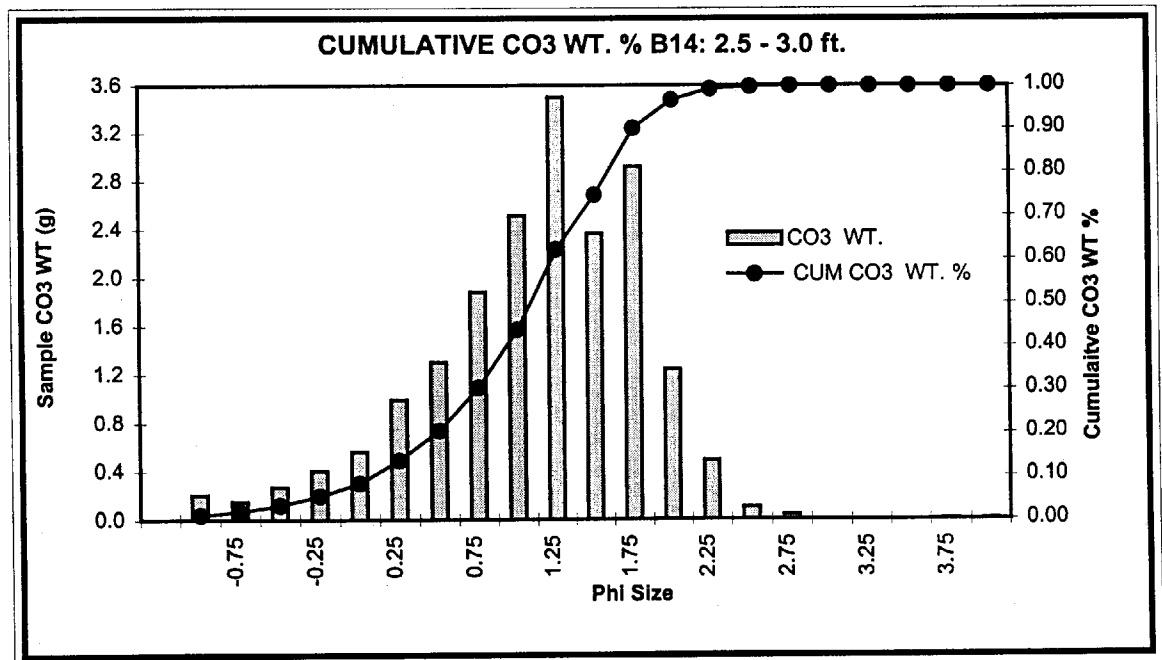


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B14: 2.5 - 3.0 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.2060	0	0.2060	0.2060	0.010864406	0.010864406
-0.75	0.1500	0	0.1500	0.3560	0.007910975	0.018775381
-0.50	0.2690	0	0.2690	0.6250	0.014187015	0.032962396
-0.25	0.4110	0.0080	0.4030	1.0280	0.021254153	0.054216550
0.00	0.6200	0.0600	0.5600	1.5880	0.029534307	0.083750857
0.25	1.1780	0.1850	0.9930	2.5810	0.052370656	0.136121513
0.50	1.8150	0.5110	1.3040	3.8850	0.068772744	0.204894257
0.75	3.2320	1.3460	1.8860	5.7710	0.099467328	0.304361584
1.00	6.7040	4.1910	2.5130	8.2840	0.132535204	0.436896788
1.25	11.5300	8.0280	3.5020	11.7860	0.184694900	0.621591688
1.50	9.8170	7.4500	2.3670	14.1530	0.124835188	0.746426876
1.75	11.6820	8.7610	2.9210	17.0740	0.154053056	0.900479932
2.00	5.3760	4.1320	1.2440	18.3180	0.065608354	0.966088286
2.25	2.2610	1.7720	0.4890	18.8070	0.025789779	0.991878066
2.50	1.2030	1.1000	0.1030	18.9100	0.005432203	0.997310268
2.75	0.7610	0.7200	0.0410	18.9510	0.002162333	0.999472602
3.00	0.3910	0.3910	0	18.9510	0	0.999472602
3.25	0.1420	0.1420	0	18.9510	0	0.999472602
3.50	0.0420	0.0420	0	18.9510	0	0.999472602
3.75	0.0440	0.0380	0.0060	18.9570	0.000316439	0.999789041
4.00	0.0320	0.0280	0.0040	18.9610	0.000210959	1

TOTAL WT. 57.8660 grams
CO3 WT. 18.9610 grams
% CARBONATE 32.7671

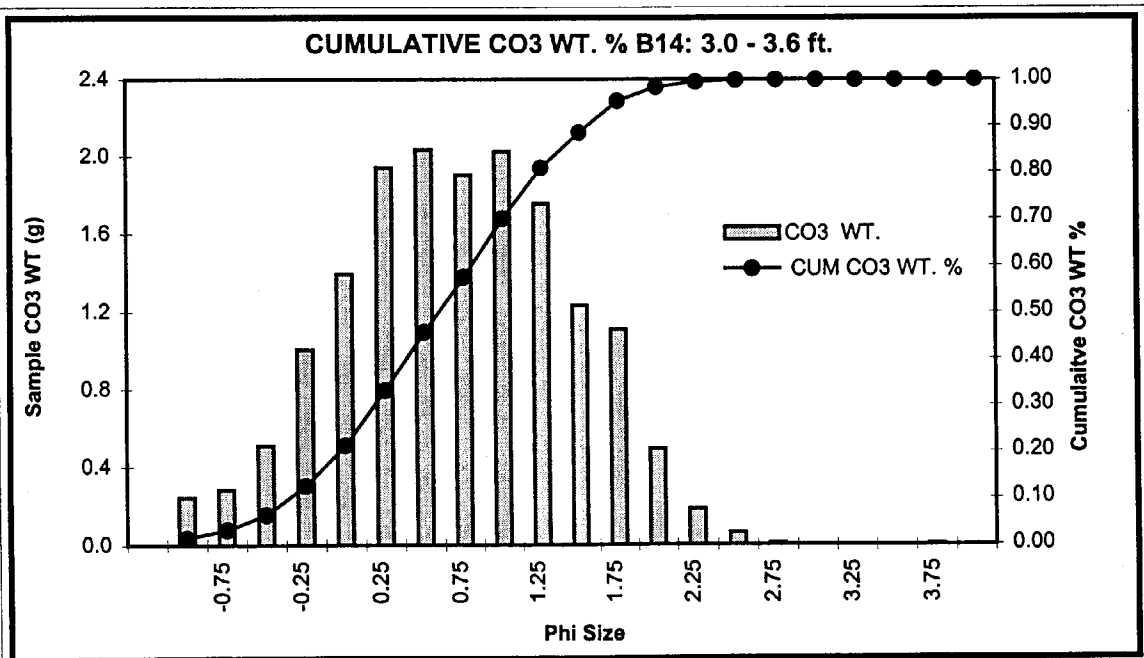


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B14: 3.0 - 3.6 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.2440	0	0.2440	0.2440	0.015058010	0.015058010
-0.75	0.2840	0	0.2840	0.5280	0.017526537	0.032584547
-0.50	0.5130	0.0040	0.5090	1.0370	0.031411997	0.063996544
-0.25	1.0760	0.0690	1.0070	2.0440	0.062145149	0.126141693
0.00	1.5470	0.1520	1.3950	3.4390	0.086089854	0.212231548
0.25	2.4930	0.5510	1.9420	5.3810	0.119846951	0.332078499
0.50	3.2560	1.2200	2.0360	7.4170	0.125647988	0.457726487
0.75	4.1420	2.2390	1.9030	9.3200	0.117440138	0.575166626
1.00	6.0510	4.0270	2.0240	11.3440	0.124907430	0.700074056
1.25	7.0190	5.2640	1.7550	13.0990	0.108306591	0.808380647
1.50	4.9620	3.7280	1.2340	14.3330	0.076154036	0.884534683
1.75	5.0340	3.9250	1.1090	15.4420	0.068439891	0.952974574
2.00	2.4790	1.9860	0.4930	15.9350	0.030424587	0.983399161
2.25	1.0390	0.8540	0.1850	16.1200	0.011416934	0.994816095
2.50	0.3470	0.2850	0.0620	16.1820	0.003826216	0.998642311
2.75	0.1120	0.1020	0.0100	16.1920	0.000617132	0.999259442
3.00	0.0630	0.0630	0	16.1920	0	0.999259442
3.25	0.0370	0.0330	0.0040	16.1960	0.000246853	0.999506295
3.50	0.0170	0.0150	0.0020	16.1980	0.000123426	0.999629721
3.75	0.0180	0.0130	0.0050	16.2030	0.000308566	0.999938287
4.00	0.0080	0.0070	0.0010	16.2040	0.000061713	1

TOTAL WT. 40.7410 grams
CO3 WT. 16.2040 grams
% CARBONATE 39.7732

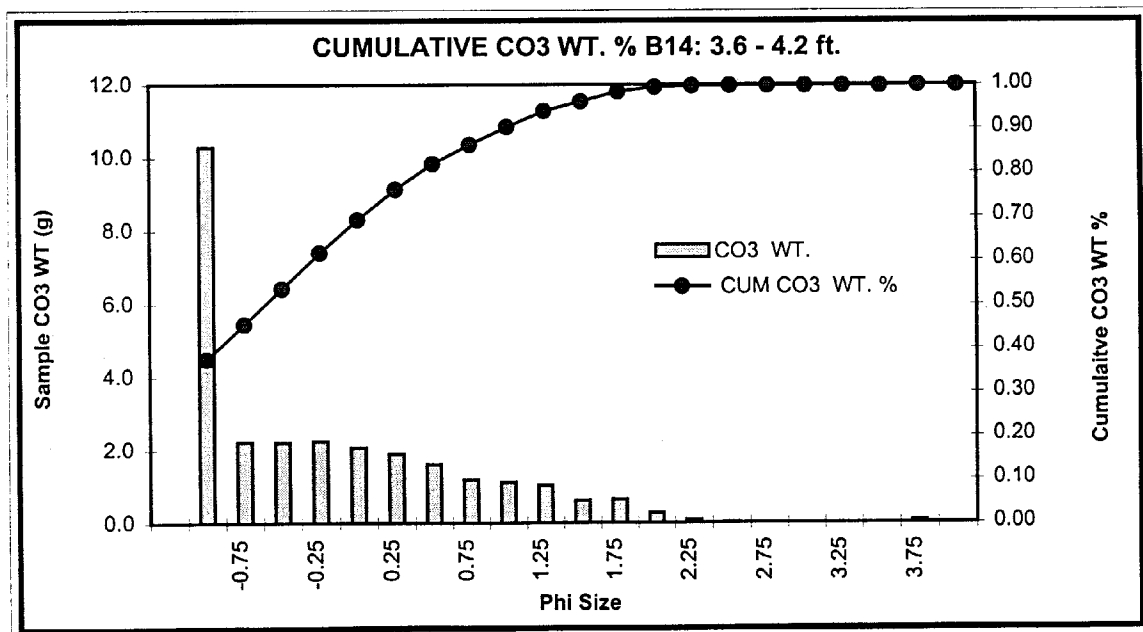


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B14: 3.6 - 4.2 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	10.2880	0	10.2880	10.2880	0.374286026	0.374286026
-0.75	2.2190	0	2.2190	12.5070	0.080729072	0.455015098
-0.50	2.2390	0.0350	2.2040	14.7110	0.080183359	0.535198457
-0.25	2.4040	0.1530	2.2510	16.9620	0.081893259	0.617091716
0.00	2.3850	0.3220	2.0630	19.0250	0.075053662	0.692145378
0.25	2.6300	0.7380	1.8920	20.9170	0.068832539	0.760977917
0.50	2.6550	1.0540	1.6010	22.5180	0.058245716	0.819223633
0.75	2.5650	1.3830	1.1820	23.7000	0.043002146	0.862225779
1.00	2.9740	1.8710	1.1030	24.8030	0.040128061	0.902353840
1.25	3.2140	2.2070	1.0070	25.8100	0.036635500	0.938989340
1.50	2.2940	1.6860	0.6080	26.4180	0.022119547	0.961108888
1.75	2.6620	2.0310	0.6310	27.0490	0.022956307	0.984065194
2.00	1.4820	1.2120	0.2700	27.3190	0.009822825	0.993888020
2.25	0.7860	0.6990	0.0870	27.4060	0.003165133	0.997053152
2.50	0.3790	0.3620	0.0170	27.4230	0.000618474	0.997671627
2.75	0.2010	0.2010	0	27.4230	0	0.997671627
3.00	0.1180	0.1180	0	27.4230	0	0.997671627
3.25	0.0500	0.0500	0	27.4230	0	0.997671627
3.50	0.0180	0.0180	0	27.4230	0	0.997671627
3.75	0.0760	0.0140	0.0620	27.4850	0.002255612	0.999927238
4.00	0.0140	0.0120	0.0020	27.4870	0.000072762	1

TOTAL WT. 41.6530 grams
CO3 WT. 27.4870 grams
% CARBONATE 65.9904

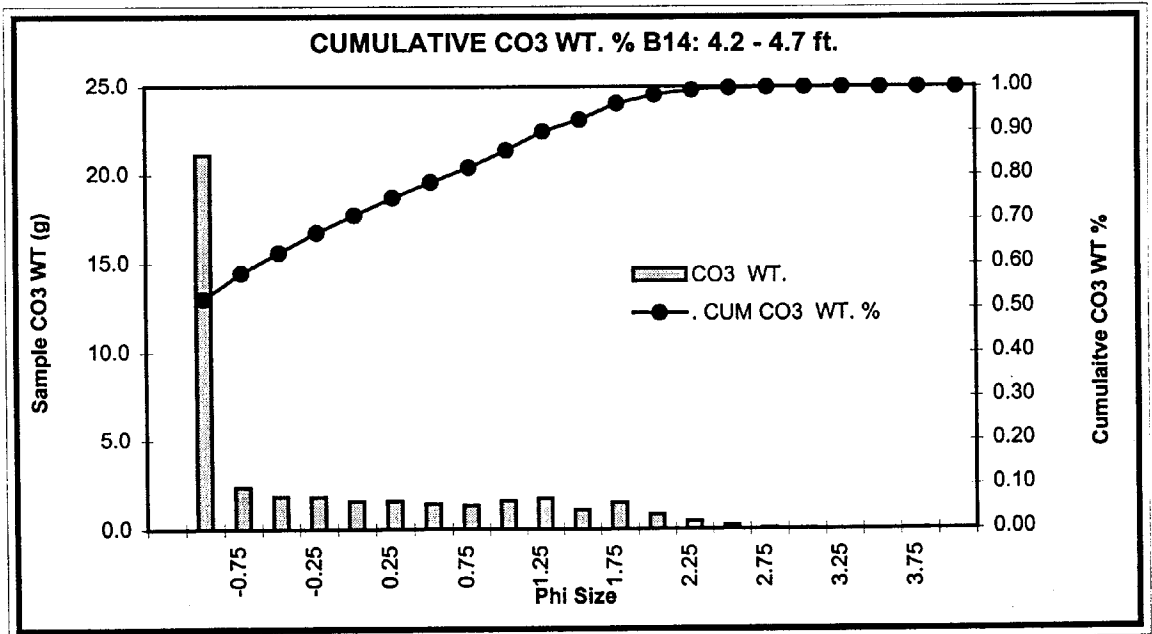


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B14: 4.2 - 4.7 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	. CUM CO3 WT. %
<-1.00	21.1040	0	21.1040	21.1040	0.521279486	0.521279486
-0.75	2.3500	0	2.3500	23.4540	0.058046190	0.579325676
-0.50	1.8780	0.0310	1.8470	25.3010	0.045621835	0.624947511
-0.25	1.9130	0.0880	1.8250	27.1260	0.045078424	0.670025936
0.00	1.7740	0.1970	1.5770	28.7030	0.038952699	0.708978634
0.25	2.0200	0.4210	1.5990	30.3020	0.039496110	0.748474744
0.50	2.2450	0.8380	1.4070	31.7090	0.034753612	0.783228356
0.75	2.8640	1.5230	1.3410	33.0500	0.033123379	0.816351735
1.00	4.4120	2.8170	1.5950	34.6450	0.039397308	0.855749043
1.25	5.9090	4.1890	1.7200	36.3650	0.042484871	0.898233914
1.50	4.9210	3.8510	1.0700	37.4350	0.026429542	0.924663456
1.75	6.5560	5.0670	1.4890	38.9240	0.036779054	0.961442510
2.00	4.4410	3.6370	0.8040	39.7280	0.019859207	0.981301717
2.25	2.5890	2.1480	0.4410	40.1690	0.010892923	0.992194640
2.50	1.0160	0.8040	0.2120	40.3810	0.005236507	0.997431147
2.75	0.3530	0.2980	0.0550	40.4360	0.001358528	0.998789675
3.00	0.1570	0.1430	0.0140	40.4500	0.000345807	0.999135482
3.25	0.0640	0.0550	0.0090	40.4590	0.000222305	0.999357787
3.50	0.0280	0.0190	0.0090	40.4680	0.000222305	0.999580091
3.75	0.0260	0.0160	0.0100	40.4780	0.000247005	0.999827096
4.00	0.0180	0.0110	0.0070	40.4850	0.000172904	1

TOTAL WT. 66.6380 grams
CO3 WT. 40.4850 grams
% CARBONATE 60.7536

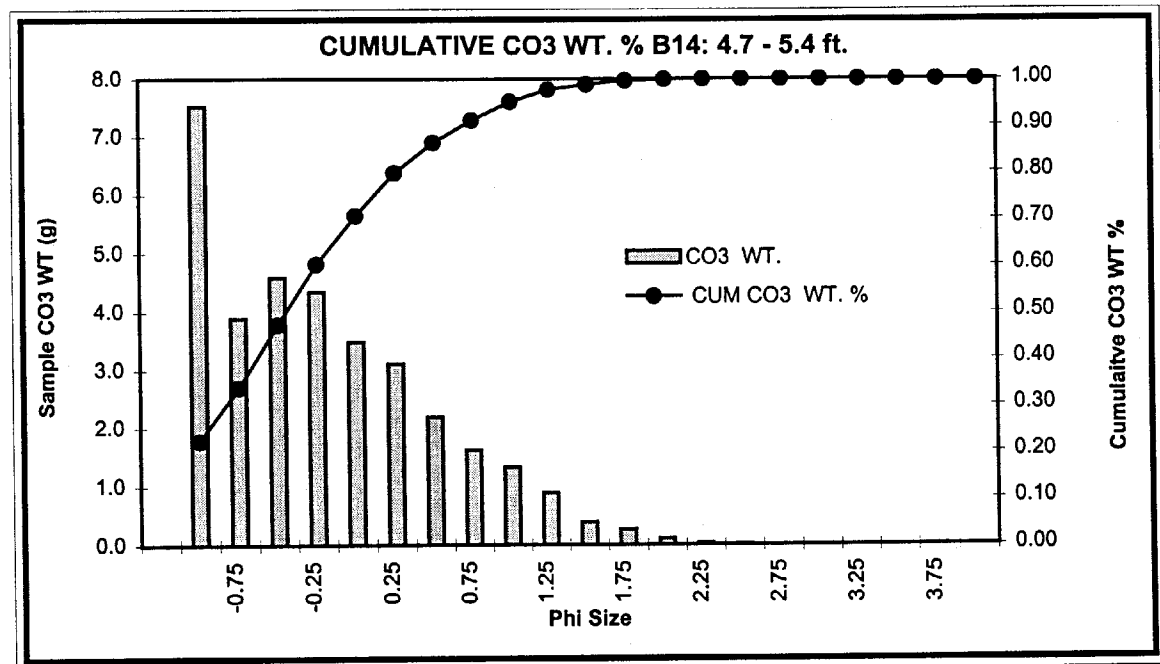


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B14: 4.7 - 5.4 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	7.5280	0	7.5280	7.5280	0.222702127	0.222702127
-0.75	3.9140	0.0200	3.8940	11.4220	0.115196876	0.337899003
-0.50	4.7950	0.2020	4.5930	16.0150	0.135875514	0.473774517
-0.25	4.7600	0.4170	4.3430	20.3580	0.128479721	0.602254238
0.00	4.2720	0.7820	3.4900	23.8480	0.103245274	0.705499512
0.25	4.4060	1.2980	3.1080	26.9560	0.091944502	0.797444014
0.50	3.8750	1.6770	2.1980	29.1540	0.065023814	0.862467828
0.75	3.5290	1.9010	1.6280	30.7820	0.048161406	0.910629234
1.00	3.5450	2.2090	1.3360	32.1180	0.039523119	0.950152353
1.25	2.9430	2.0550	0.8880	33.0060	0.026269858	0.976422211
1.50	1.5600	1.1760	0.3840	33.3900	0.011359938	0.987782150
1.75	1.3760	1.1110	0.2650	33.6550	0.007839541	0.995621690
2.00	0.6210	0.5220	0.0990	33.7540	0.002928734	0.998550425
2.25	0.2980	0.2680	0.0300	33.7840	0.000887495	0.999437920
2.50	0.1190	0.1080	0.0110	33.7950	0.000325415	0.999763335
2.75	0.0530	0.0530	0	33.7950	0	0.999763335
3.00	0.0340	0.0340	0	33.7950	0	0.999763335
3.25	0.0250	0.0250	0	33.7950	0	0.999763335
3.50	0.0130	0.0130	0	33.7950	0	0.999763335
3.75	0.0160	0.0120	0.0040	33.7990	0.000118333	0.999881667
4.00	0.0120	0.0080	0.0040	33.8030	0.000118333	1

OTAL WT. **47.6940** **grams**
CO3 WT. **33.8030** **grams**
E % CARBONATE **70.8747**

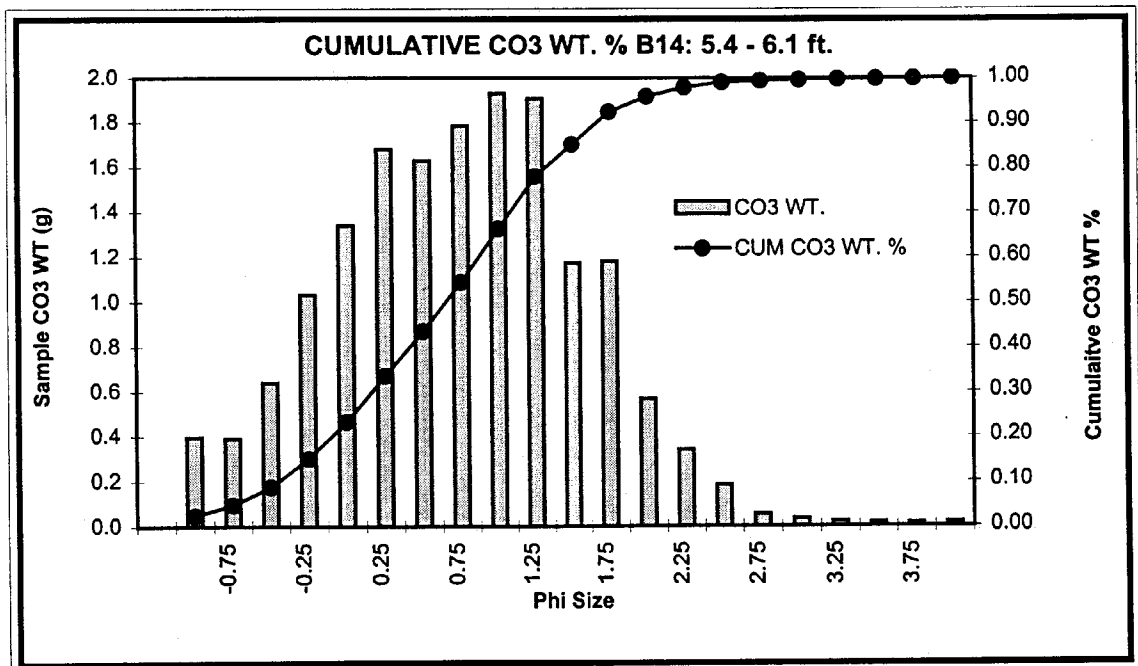


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B14: 5.4 - 6.1 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.3980	0	0.3980	0.3980	0.024354424	0.024354424
-0.75	0.3930	0.0030	0.3900	0.7880	0.023864888	0.048219312
-0.50	0.6510	0.0090	0.6420	1.4300	0.039285277	0.087504589
-0.25	1.0690	0.0360	1.0330	2.4630	0.063211357	0.150715947
0.00	1.4950	0.1550	1.3400	3.8030	0.081997308	0.232713254
0.25	2.0940	0.4120	1.6820	5.4850	0.102924979	0.335638233
0.50	2.5890	0.9590	1.6300	7.1150	0.099742994	0.435381226
0.75	3.6530	1.8680	1.7850	8.9000	0.109227757	0.544608983
1.00	5.6960	3.7670	1.9290	10.8290	0.118039408	0.662648391
1.25	6.8210	4.9140	1.9070	12.7360	0.116693183	0.779341574
1.50	4.9520	3.7800	1.1720	13.9080	0.071717048	0.851058622
1.75	5.4950	4.3140	1.1810	15.0890	0.072267776	0.923326398
2.00	3.0500	2.4840	0.5660	15.6550	0.034634684	0.957961082
2.25	1.4710	1.1310	0.3400	15.9950	0.020805287	0.978766369
2.50	0.5090	0.3260	0.1830	16.1780	0.011198140	0.989964509
2.75	0.1620	0.1070	0.0550	16.2330	0.003365561	0.993330070
3.00	0.0960	0.0610	0.0350	16.2680	0.002141721	0.995471790
3.25	0.0630	0.0400	0.0230	16.2910	0.001407416	0.996879207
3.50	0.0390	0.0220	0.0170	16.3080	0.001040264	0.997919471
3.75	0.0410	0.0260	0.0150	16.3230	0.000917880	0.998837352
4.00	0.0320	0.0130	0.0190	16.3420	0.001162648	1

TOTAL WT. 40.7690 grams
 CO3 WT. 16.3420 grams
 % CARBONATE 40.0844

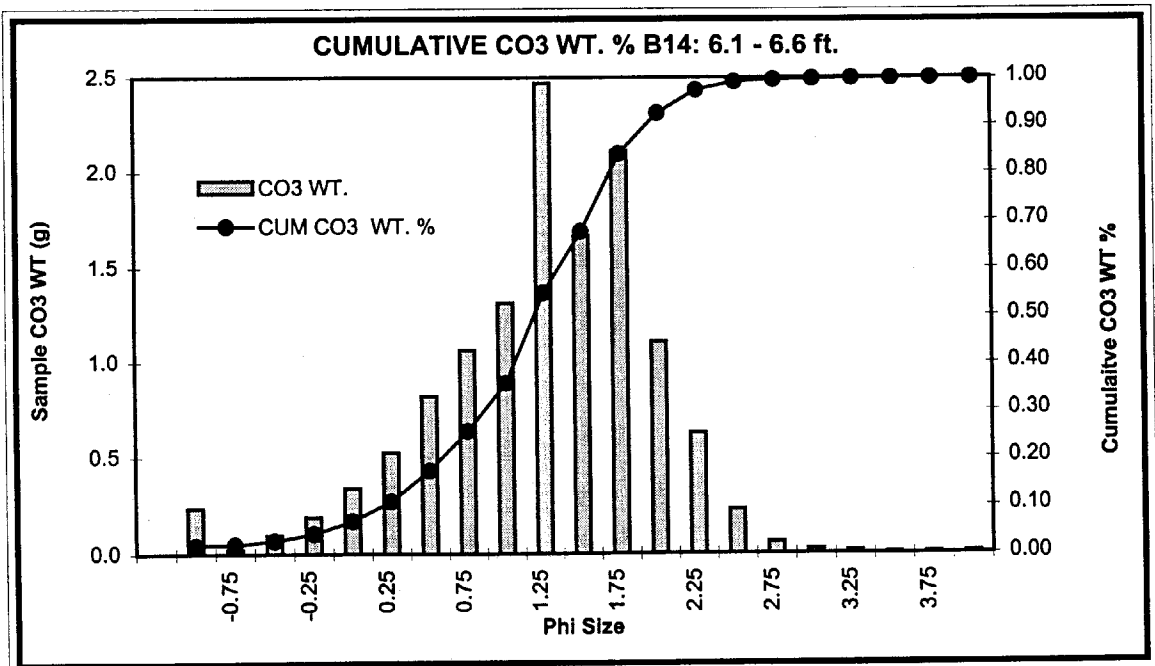


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B14: 6.1 - 6.6 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.2390	0	0.2390	0.2390	0.018434246	0.018434246
-0.75	0.0230	0	0.0230	0.2620	0.001774007	0.020208253
-0.50	0.0980	0	0.0980	0.3600	0.007558812	0.027767065
-0.25	0.1920	0	0.1920	0.5520	0.014809101	0.042576167
0.00	0.3540	0.0130	0.3410	0.8930	0.026301581	0.068877748
0.25	0.5890	0.0610	0.5280	1.4210	0.040725029	0.109602777
0.50	1.1530	0.3280	0.8250	2.2460	0.063632858	0.173235634
0.75	2.0120	0.9460	1.0660	3.3120	0.082221365	0.255457000
1.00	4.0870	2.7720	1.3150	4.6270	0.101426919	0.356883918
1.25	7.2160	4.7480	2.4680	7.0950	0.190358658	0.547242576
1.50	6.4330	4.7680	1.6650	8.7600	0.128422676	0.675665253
1.75	9.0030	6.8920	2.1110	10.8710	0.162822985	0.838488238
2.00	6.2710	5.1600	1.1110	11.9820	0.085692248	0.924180486
2.25	3.8840	3.2550	0.6290	12.6110	0.048515233	0.972695719
2.50	1.5820	1.3500	0.2320	12.8430	0.017894331	0.990590050
2.75	0.5630	0.5020	0.0610	12.9040	0.004704975	0.995295025
3.00	0.2730	0.2480	0.0250	12.9290	0.001928268	0.997223293
3.25	0.1140	0.0990	0.0150	12.9440	0.001156961	0.998380255
3.50	0.0390	0.0320	0.0070	12.9510	0.000539915	0.998920170
3.75	0.0340	0.0280	0.0060	12.9570	0.000462784	0.999382954
4.00	0.0220	0.0140	0.0080	12.9650	0.000617046	1

TOTAL WT. 44.1810 grams
CO3 WT. 12.9650 grams
% CARBONATE 29.3452

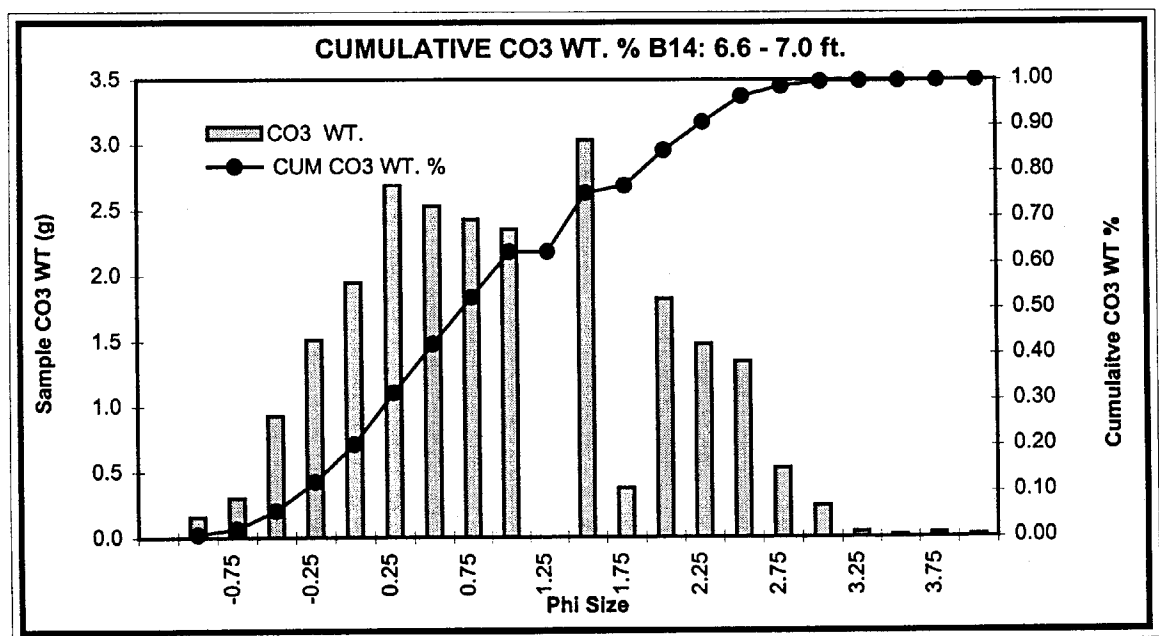


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B14: 6.6 - 7.0 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.2050	0.0500	0.1550	0.1550	0.006512058	0.006512058
-0.75	0.3100	0.0090	0.3010	0.4560	0.012645996	0.019158054
-0.50	0.9310	0	0.9310	1.3870	0.039114360	0.058272414
-0.25	1.5800	0.0670	1.5130	2.9000	0.063566087	0.121838501
0.00	2.1550	0.2050	1.9500	4.8500	0.081925889	0.203764390
0.25	3.3850	0.6890	2.6960	7.5460	0.113267793	0.317032182
0.50	4.0250	1.4910	2.5340	10.0800	0.106461642	0.423493824
0.75	4.7780	2.3480	2.4300	12.5100	0.102092261	0.525586085
1.00	5.4250	3.0690	2.3560	14.8660	0.098983279	0.624569364
1.25	2.0870	2.0870	0	14.8660	0	0.624569364
1.50	5.3370	2.3020	3.0350	17.9010	0.127510293	0.752079657
1.75	3.3240	2.9500	0.3740	18.2750	0.015712965	0.767792622
2.00	4.0730	2.2480	1.8250	20.1000	0.076674229	0.844466852
2.25	2.8910	1.4110	1.4800	21.5800	0.062179649	0.906646500
2.50	1.8820	0.5370	1.3450	22.9250	0.056507856	0.963154357
2.75	0.7090	0.1770	0.5320	23.4570	0.022351063	0.985505420
3.00	0.3280	0.0880	0.2400	23.6970	0.010083186	0.995588606
3.25	0.0920	0.0530	0.0390	23.7360	0.001638518	0.997227124
3.50	0.0440	0.0290	0.0150	23.7510	0.000630199	0.997857323
3.75	0.0620	0.0300	0.0320	23.7830	0.001344425	0.999201748
4.00	0.0390	0.0200	0.0190	23.8020	0.000798252	1

TOTAL WT.	43.6620	grams
CO3 WT.	23.8020	grams
% CARBONATE	54.5142	

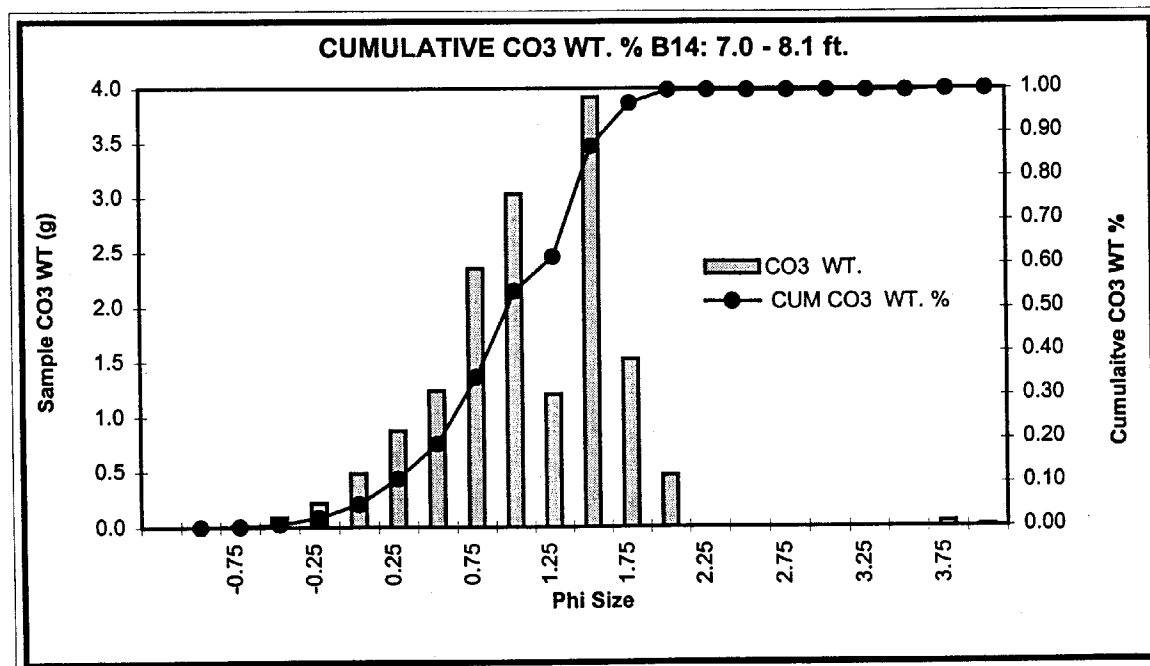


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B14: 7.0 - 8.1 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0	0	0	0	0	0
-0.75	0.0190	0	0.0190	0.0190	0.001224621	0.001224621
-0.50	0.0950	0	0.0950	0.1140	0.006123107	0.007347728
-0.25	0.2260	0	0.2240	0.3380	0.014437641	0.021785369
0.00	0.4940	0	0.4860	0.8240	0.031324525	0.053109894
0.25	0.9440	0.0620	0.8820	1.7060	0.056848211	0.109958105
0.50	1.4660	0.2240	1.2420	2.9480	0.080051563	0.190009668
0.75	2.9950	0.6420	2.3530	5.3010	0.151659684	0.341669352
1.00	4.8950	1.8640	3.0310	8.3320	0.195359330	0.537028682
1.25	4.4270	3.2210	1.2060	9.5380	0.077731228	0.614759910
1.50	7.2230	3.3030	3.9200	13.4580	0.252658717	0.867418627
1.75	7.0820	5.5510	1.5310	14.9890	0.098678698	0.966097325
2.00	6.2560	5.7900	0.4660	15.4550	0.030035450	0.996132775
2.25	3.0350	3.0350	0	15.4550	0	0.996132775
2.50	0.9500	0.9500	0	15.4550	0	0.996132775
2.75	0.2560	0.2560	0	15.4550	0	0.996132775
3.00	0.1750	0.1750	0	15.4550	0	0.996132775
3.25	0.1050	0.1050	0	15.4550	0	0.996132775
3.50	0	0	0	15.4550	0	0.996132775
3.75	0.1060	0.0580	0.0480	15.5030	0.003093780	0.999226555
4.00	0.0390	0.0270	0.0120	15.5150	0.000773445	1

TOTAL WT.	40.8110	grams
CO3 WT.	15.5150	grams
% CARBONATE	38.0167	



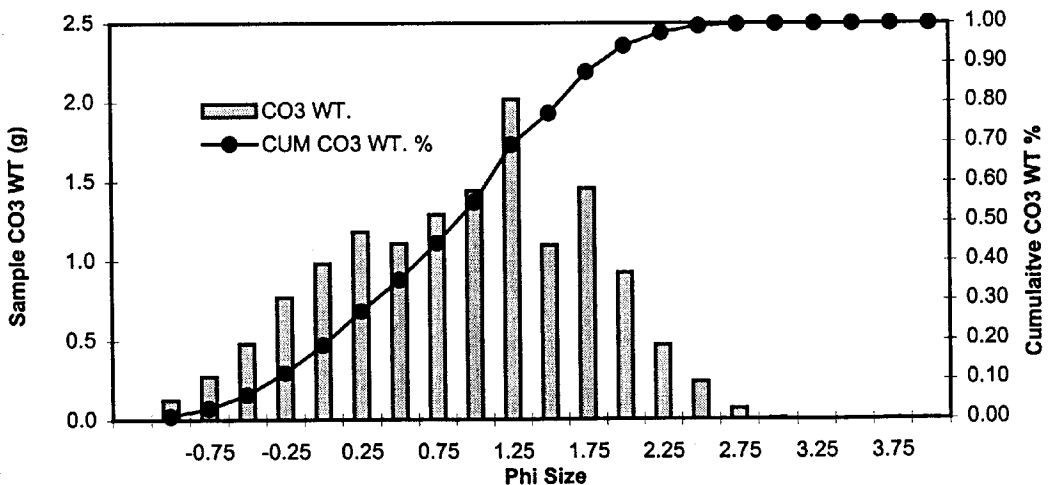
CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B15: 0 - 1.0 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.1240	0	0.1240	0.1240	0.008889526	0.008889526
-0.75	0.2710	0	0.2710	0.3950	0.019427916	0.028317442
-0.50	0.4900	0.0130	0.4770	0.8720	0.034196000	0.062513442
-0.25	0.8070	0.0360	0.7710	1.6430	0.055272779	0.117786221
0.00	1.0870	0.1050	0.9820	2.6250	0.070399312	0.188185533
0.25	1.4520	0.2670	1.1850	3.8100	0.084952326	0.273137859
0.50	1.6440	0.5320	1.1120	4.9220	0.079718976	0.352856836
0.75	2.2610	0.9680	1.2930	6.2150	0.092694817	0.445551652
1.00	3.8840	2.4430	1.4410	7.6560	0.103304896	0.548856549
1.25	5.8260	3.8090	2.0170	9.6730	0.144598179	0.693454728
1.50	5.2600	4.1620	1.0980	10.7710	0.078715320	0.772170048
1.75	7.2500	5.7930	1.4570	12.2280	0.104451932	0.876621980
2.00	4.9530	4.0280	0.9250	13.1530	0.066312997	0.942934977
2.25	2.9770	2.5070	0.4700	13.6230	0.033694172	0.976629149
2.50	1.0440	0.8060	0.2380	13.8610	0.017062155	0.993691304
2.75	0.2180	0.1500	0.0680	13.9290	0.004874901	0.998566205
3.00	0.0750	0.0660	0.0090	13.9380	0.000645208	0.999211413
3.25	0.0370	0.0370	0	13.938	0	0.999211413
3.50	0.0270	0.0240	0.0030	13.9410	0.000215069	0.999426482
3.75	0.0310	0.0260	0.0050	13.9460	0.000358449	0.999784931
4.00	0.0200	0.0170	0.0030	13.9490	0.000215069	1

TOTAL WT. 39.7380 grams
 CO3 WT. 13.9490 grams
 % CARBONATE 35.1024

CUMULATIVE CO3 WT. % B15: 0 - 1.0 ft.



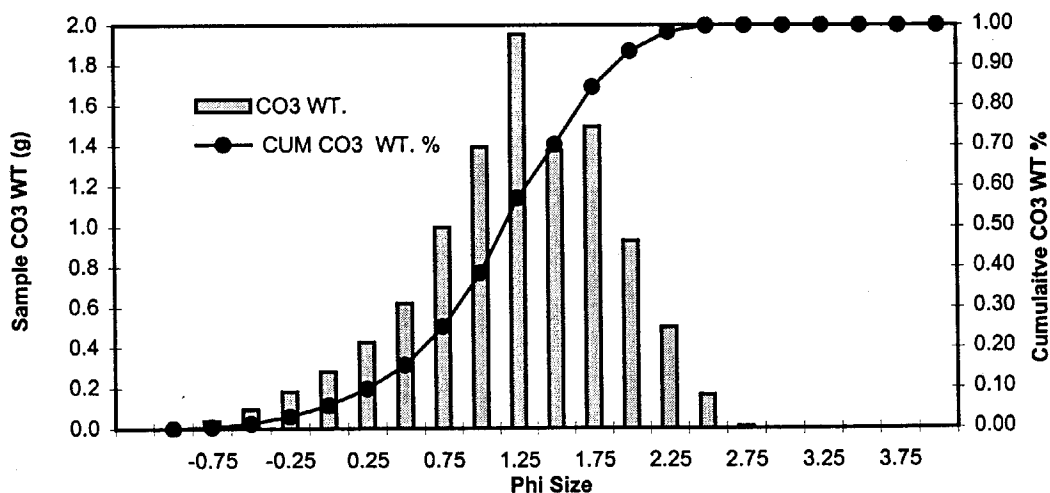
CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B15: 1.0 - 1.4 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0	0	0	0	0	0
-0.75	0.0380	0	0.0380	0.0380	0.003625954	0.003625954
-0.50	0.0960	0	0.0960	0.1340	0.009160305	0.012786260
-0.25	0.1830	0	0.1830	0.3170	0.017461832	0.030248092
0.00	0.3060	0.0240	0.2820	0.5990	0.026908397	0.057156489
0.25	0.5150	0.0860	0.4290	1.0280	0.040935115	0.098091603
0.50	0.8130	0.1910	0.6220	1.6500	0.059351145	0.157442748
0.75	1.5540	0.5540	1.0000	2.6500	0.095419847	0.252862595
1.00	3.3680	1.9740	1.3940	4.0440	0.133015267	0.385877863
1.25	6.2200	4.2640	1.9560	6.0000	0.186641221	0.572519084
1.50	5.8280	4.4510	1.3770	7.3770	0.131393130	0.703912214
1.75	8.4460	6.9500	1.4960	8.8730	0.142748092	0.846660305
2.00	6.1130	5.1830	0.9300	9.8030	0.088740458	0.935400763
2.25	3.4790	2.9770	0.5020	10.3050	0.047900763	0.983301527
2.50	0.9460	0.7810	0.1650	10.4700	0.015744275	0.999045802
2.75	0.1360	0.1260	0.0100	10.4800	0.000954198	1
3.00	0.0380	0.0380	0	10.4800	0	1
3.25	0.0160	0.0160	0	10.4800	0	1
3.50	0.0210	0.0210	0	10.4800	0	1
3.75	0.0100	0.0100	0	10.4800	0	1
4.00	0.0060	0.0060	0	10.4800	0	1

TOTAL WT. 38.1320 grams
CO3 WT. 10.4800 grams
% CARBONATE 27.4835

CUMULATIVE CO3 WT. % B15: 1.0 - 1.4 ft.

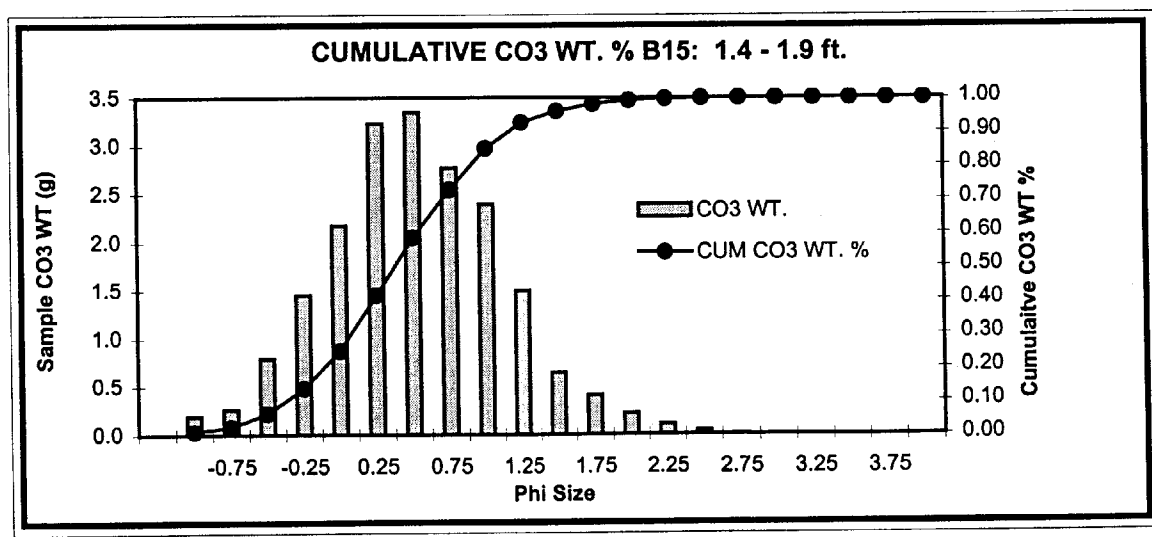


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B15: 1.4 - 1.9 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.1940	0	0.1940	0.1940	0.009912626	0.009912626
-0.75	0.2650	0	0.2650	0.4590	0.013540442	0.023453068
-0.50	0.7970	0	0.7970	1.2560	0.040723519	0.064176588
-0.25	1.5190	0.0600	1.4590	2.7150	0.074549078	0.138725666
0.00	2.3630	0.1880	2.1750	4.8900	0.111133820	0.249859486
0.25	3.9480	0.7130	3.2350	8.1250	0.165295590	0.415155076
0.50	4.8920	1.5440	3.3480	11.4730	0.171069439	0.586224516
0.75	5.2280	2.4570	2.7710	14.2440	0.141587042	0.727811558
1.00	5.4740	3.0780	2.3960	16.6400	0.122426039	0.850237596
1.25	4.4620	2.9630	1.4990	18.1390	0.076592918	0.926830515
1.50	2.3690	1.7240	0.6450	18.7840	0.032956926	0.959787441
1.75	2.2920	1.8840	0.4080	19.1920	0.020847172	0.980634612
2.00	1.2930	1.0730	0.2200	19.4120	0.011241122	0.991875735
2.25	0.6350	0.5270	0.1080	19.5200	0.005518369	0.997394104
2.50	0.2240	0.1850	0.0390	19.5590	0.001992744	0.999386848
2.75	0.0630	0.0560	0.0070	19.5660	0.000357672	0.999744520
3.00	0.0340	0.0290	0.0050	19.5710	0.000255480	1
3.25	0.0170	0.0170	0	19.5710	0	1
3.50	0.0090	0.0090	0	19.5710	0	1
3.75	0.0100	0.0100	0	19.5710	0	1
4.00	0.0080	0.0080	0	19.5710	0	1

TOTAL WT. 36.0960 grams
CO3 WT. 19.5710 grams
% CARBONATE 54.2193

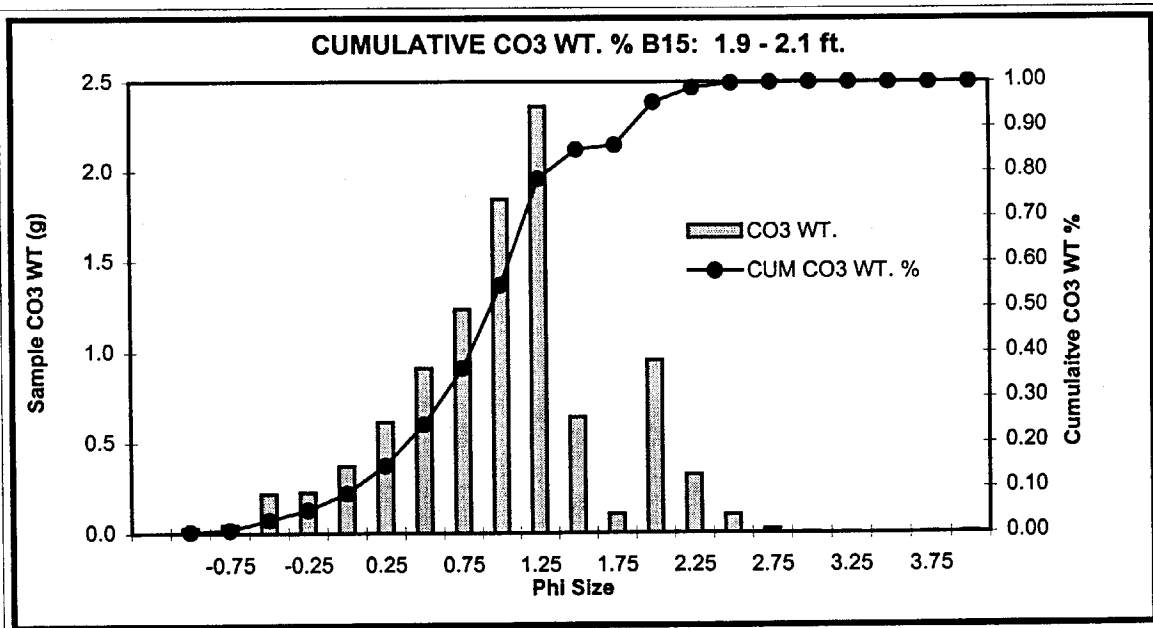


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B15: 1.9 - 2.1 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.0280	0	0.0280	0.0280	0.002796365	0.002796365
-0.75	0.0460	0	0.0460	0.0740	0.004594028	0.007390392
-0.50	0.2170	0	0.2170	0.2910	0.021671827	0.029062219
-0.25	0.2350	0.0110	0.2240	0.5150	0.022370918	0.051433137
0.00	0.3820	0.0130	0.3690	0.8840	0.036852092	0.088285229
0.25	0.7200	0.1050	0.6150	1.4990	0.061420154	0.149705383
0.50	1.2100	0.2960	0.9140	2.4130	0.091281334	0.240986717
0.75	2.1050	0.8680	1.2370	3.6500	0.123539399	0.364526116
1.00	4.7390	2.8940	1.8450	5.4950	0.184260461	0.548786577
1.25	8.1730	5.8100	2.3630	7.8580	0.235993209	0.784779786
1.50	6.6900	6.0500	0.6400	8.4980	0.063916908	0.848696694
1.75	7.4790	7.3740	0.1050	8.6030	0.010486368	0.859183062
2.00	4.7060	3.7510	0.9550	9.5580	0.095376011	0.954559073
2.25	1.7090	1.3860	0.3230	9.8810	0.032258065	0.986817138
2.50	0.4190	0.3180	0.1010	9.9820	0.010086887	0.996904025
2.75	0.0950	0.0760	0.0190	10.0010	0.001897533	0.998801558
3.00	0.0460	0.0430	0.0030	10.0040	0.000299611	0.999101168
3.25	0.0270	0.0250	0.0020	10.0060	0.000199740	0.999300909
3.50	0.0140	0.0120	0.0020	10.0080	0.000199740	0.999500649
3.75	0.0150	0.0140	0.0010	10.0090	0.000099870	0.999600519
4.00	0.0120	0.0080	0.0040	10.0130	0.000399481	1

OTAL WT. 39.0670 grams
 CO3 WT. 10.0130 grams
 E % CARBONATE 25.6303

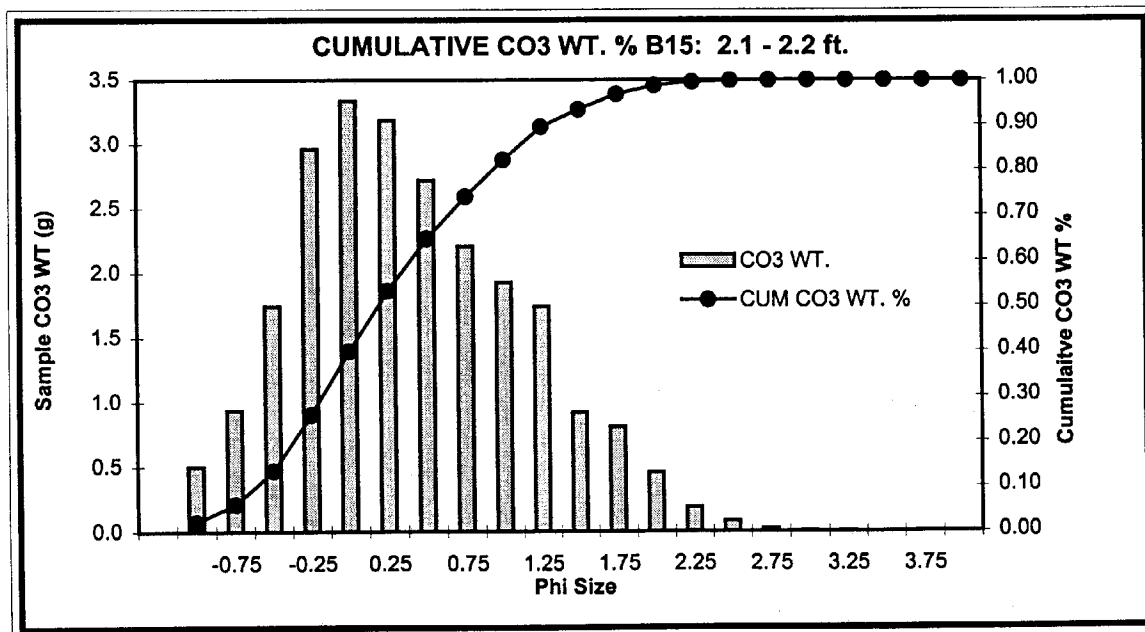


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B15: 2.1 - 2.2 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.5030	0	0.5030	0.5030	0.021172707	0.021172707
-0.75	0.9370	0	0.9370	1.4400	0.039441007	0.060613714
-0.50	1.7700	0.0240	1.7460	3.1860	0.073494128	0.134107842
-0.25	3.0650	0.1020	2.9630	6.1490	0.124721135	0.258828977
0.00	3.7560	0.4190	3.3370	9.4860	0.140463863	0.399292840
0.25	4.1030	0.9190	3.1840	12.6700	0.134023656	0.533316496
0.50	4.0430	1.3230	2.7200	15.3900	0.114492571	0.647809067
0.75	4.0350	1.8250	2.2100	17.6000	0.093025214	0.740834280
1.00	4.6010	2.6720	1.9290	19.5290	0.081197121	0.822031401
1.25	4.9010	3.1580	1.7430	21.2720	0.073367849	0.895399251
1.50	3.4200	2.5000	0.9200	22.1920	0.038725428	0.934124679
1.75	3.9080	3.0960	0.8120	23.0040	0.034179400	0.968304079
2.00	2.4000	1.9450	0.4550	23.4590	0.019152250	0.987456329
2.25	1.3240	1.1370	0.1870	23.6460	0.007871364	0.995327693
2.50	0.5050	0.4260	0.0790	23.7250	0.003325336	0.998653029
2.75	0.1580	0.1360	0.0220	23.7470	0.000926043	0.999579071
3.00	0.0760	0.0720	0.0040	23.7510	0.000168371	0.999747443
3.25	0.0400	0.0380	0.0020	23.7530	0.000084186	0.999831629
3.50	0.0180	0.0170	0.0010	23.7540	0.000042093	0.999873721
3.75	0.0180	0.0150	0.0030	23.7570	0.000126279	1
4.00	0.0100	0.0100	0	23.7570	0	1

TOTAL WT. 43.5910 grams
CO3 WT. 23.7570 grams
% CARBONATE 54.4998

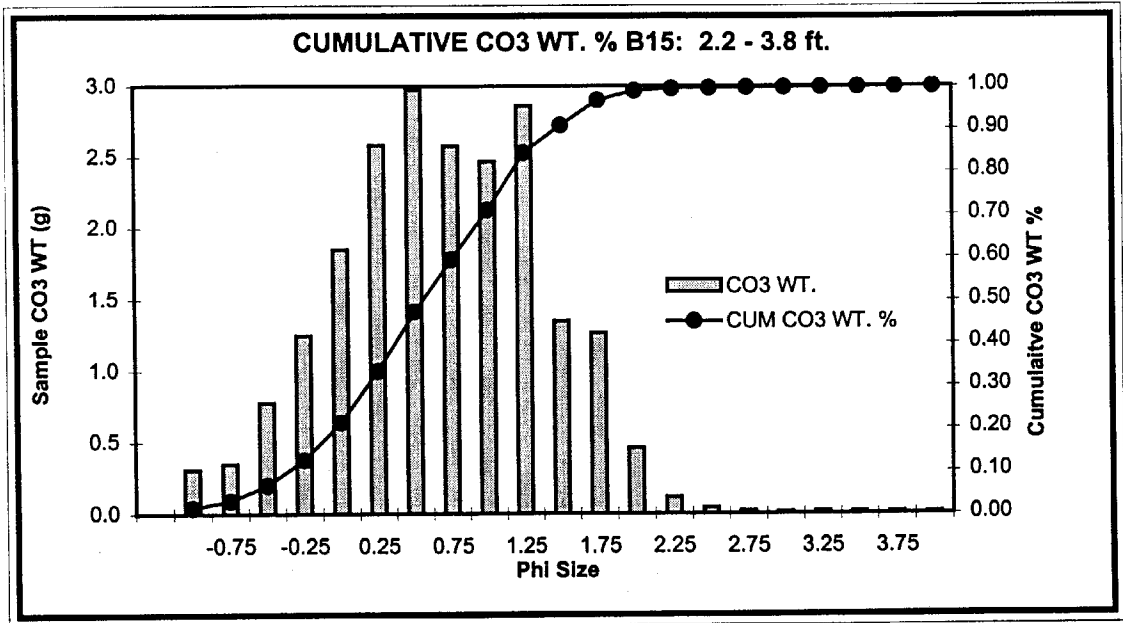


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B15: 2.2 - 3.8 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.3060	0	0.3060	0.3060	0.014348010	0.014348010
-0.75	0.3500	0	0.3500	0.6560	0.016411122	0.030759132
-0.50	0.7790	0	0.7790	1.4350	0.036526469	0.067285600
-0.25	1.2940	0.0460	1.2480	2.6830	0.058517372	0.125802973
0.00	1.9620	0.1110	1.8510	4.5340	0.086791391	0.212594364
0.25	3.1040	0.5210	2.5830	7.1170	0.121114081	0.333708445
0.50	4.4390	1.4640	2.9750	10.0920	0.139494537	0.473202982
0.75	5.7270	3.1480	2.5790	12.6710	0.120926525	0.594129507
1.00	8.1800	5.7090	2.4710	15.1420	0.115862522	0.709992029
1.25	9.2450	6.3880	2.8570	17.9990	0.133961645	0.843953674
1.50	5.9030	4.5490	1.3540	19.3530	0.063487598	0.907441272
1.75	5.3700	4.1020	1.2680	20.6210	0.059455151	0.966896422
2.00	2.1160	1.6560	0.4600	21.0810	0.021568903	0.988465326
2.25	0.6730	0.5590	0.1140	21.1950	0.005345337	0.993810663
2.50	0.2190	0.1780	0.0410	21.2360	0.001922446	0.995733108
2.75	0.0950	0.0760	0.0190	21.2550	0.000890889	0.996623998
3.00	0.0720	0.0600	0.0120	21.2670	0.000562667	0.997186665
3.25	0.0600	0.0430	0.0170	21.2840	0.000797112	0.997983776
3.50	0.0360	0.0230	0.0130	21.2970	0.000609556	0.998593332
3.75	0.0330	0.0170	0.0160	21.3130	0.000750223	0.999343555
4.00	0.0230	0.0090	0.0140	21.3270	0.000656445	1

TOTAL WT. 49.9860 grams
 CO3 WT. 21.3270 grams
 % CARBONATE 42.6659

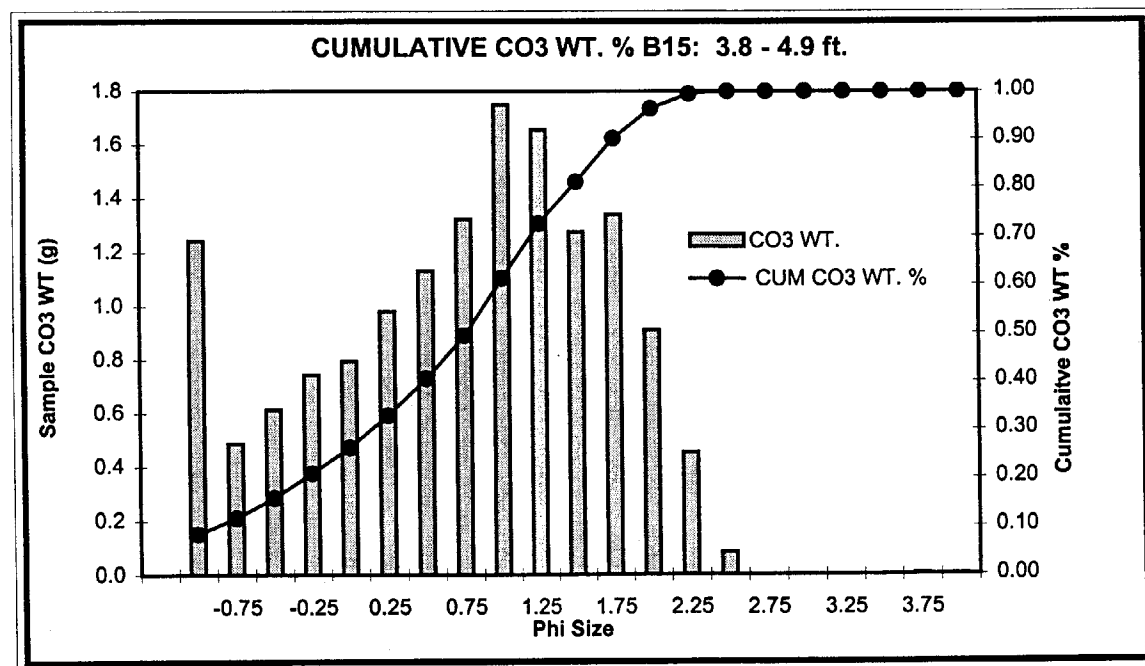


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B15: 3.8 - 4.9 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	1.2420	0	1.2420	1.2420	0.084004058	0.084004058
-0.75	0.4870	0	0.4870	1.7290	0.032938789	0.116942847
-0.50	0.6250	0.0120	0.6130	2.3420	0.041460940	0.158403788
-0.25	0.7920	0.0480	0.7440	3.0860	0.050321272	0.208725059
0.00	0.8930	0.0970	0.7960	3.8820	0.053838350	0.262563409
0.25	1.1810	0.2010	0.9800	4.8620	0.066283395	0.328846804
0.50	1.5580	0.4270	1.1310	5.9930	0.076496449	0.405343253
0.75	2.2590	0.9380	1.3210	7.3140	0.089347311	0.494690565
1.00	3.9840	2.2350	1.7490	9.0630	0.118295570	0.612986135
1.25	6.0670	4.4130	1.6540	10.7170	0.111870139	0.724856273
1.50	5.7990	4.5250	1.2740	11.9910	0.086168414	0.811024687
1.75	8.1940	6.8560	1.3380	13.3290	0.090497125	0.901521813
2.00	5.9800	5.0700	0.9100	14.2390	0.061548867	0.963070680
2.25	3.4010	2.9480	0.4530	14.6920	0.030639161	0.993709841
2.50	1.0910	1.0080	0.0830	14.7750	0.005613798	0.999323639
2.75	0.2600	0.2600	0	14.775	0	0.999323639
3.00	0.1070	0.1070	0	14.775	0	0.999323639
3.25	0.0460	0.0460	0	14.775	0	0.999323639
3.50	0.0190	0.0190	0	14.775	0	0.999323639
3.75	0.0180	0.0120	0.0060	14.7810	0.000405817	0.999729456
4.00	0.0100	0.0060	0.0040	14.7850	0.000270544	1

TOTAL WT. 44.0130 grams
CO3 WT. 14.7850 grams
% CARBONATE 33.5923



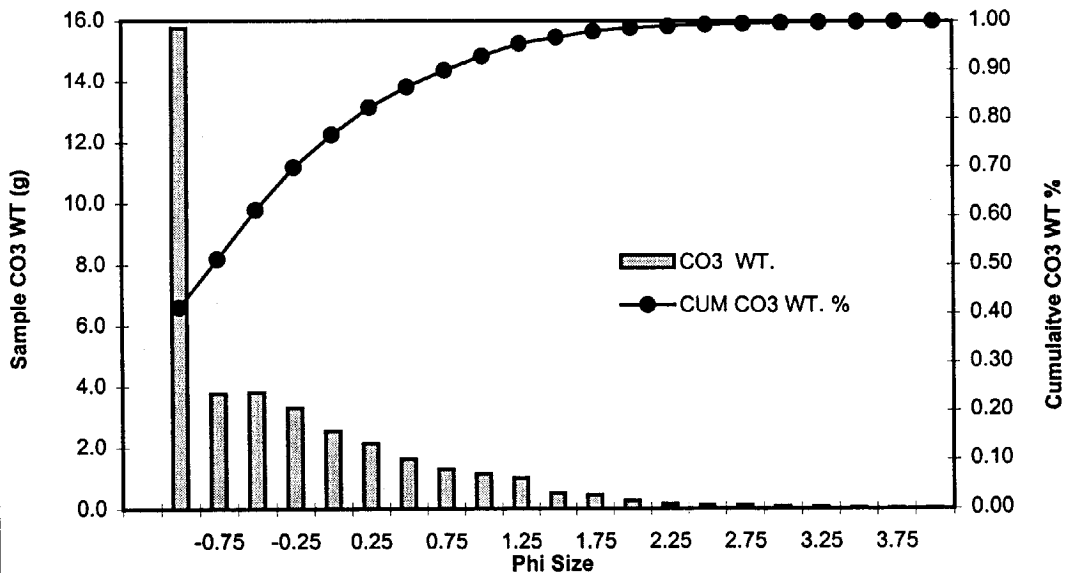
CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B15: 4.9 - 5.8 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	15.7760	0.0180	15.7580	15.7580	0.413357117	0.413357117
-0.75	3.7740	0	3.7740	19.5320	0.098997954	0.512355071
-0.50	3.9040	0.0740	3.8300	23.3620	0.100466922	0.612821993
-0.25	3.4500	0.1540	3.2960	26.6580	0.086459262	0.699281255
0.00	2.7740	0.2300	2.5440	29.2020	0.066733120	0.766014375
0.25	2.5430	0.4150	2.1280	31.3300	0.055820786	0.821835161
0.50	2.2380	0.6160	1.6220	32.9520	0.042547610	0.864382771
0.75	2.1690	0.8730	1.2960	34.2480	0.033996118	0.898378889
1.00	2.5350	1.4050	1.1300	35.3780	0.029641677	0.928020566
1.25	2.7410	1.7480	0.9930	36.3710	0.026047951	0.954068517
1.50	1.9080	1.4010	0.5070	36.8780	0.013299407	0.967367924
1.75	2.2050	1.7600	0.4450	37.3230	0.011673050	0.979040974
2.00	1.4540	1.1940	0.2600	37.5830	0.006820209	0.985861183
2.25	0.9420	0.7970	0.1450	37.7280	0.003803578	0.989664761
2.50	0.4980	0.3840	0.1140	37.8420	0.002990399	0.992655160
2.75	0.2400	0.1500	0.0900	37.9320	0.002360842	0.995016001
3.00	0.1350	0.0710	0.0640	37.9960	0.001678821	0.996694822
3.25	0.0720	0.0210	0.0510	38.0470	0.001337810	0.998032632
3.50	0.0340	0.0050	0.0290	38.0760	0.000760716	0.998793348
3.75	0.0290	0.0030	0.0260	38.1020	0.000682021	0.999475369
4.00	0.0220	0.0020	0.0200	38.1220	0.000524631	1

TOTAL WT. 49.4430 grams
 CO3 WT. 38.1220 grams
 % CARBONATE 77.1029

CUMULATIVE CO3 WT. % B15: 4.9 - 5.8 ft.

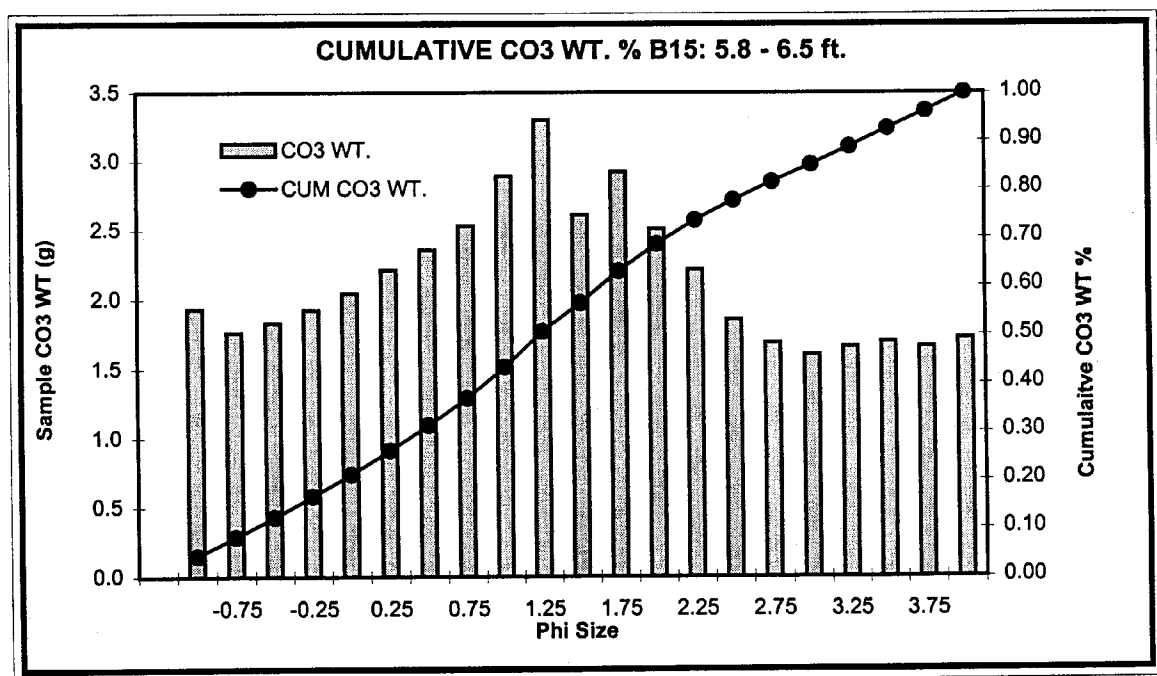


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B15: 5.8 - 6.6 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT.	CUM CO3 WT.
<-1.00	1.9320	0	1.9320	1.9320	0.042966752	0.042966752
-0.75	1.7640	0	1.7640	3.6960	0.039230513	0.082197265
-0.50	1.8370	0	1.8370	5.5330	0.040853998	0.123051262
-0.25	1.9260	0	1.9260	7.4590	0.042833315	0.165884577
0.00	2.0530	0.0060	2.0470	9.5060	0.045524297	0.211408874
0.25	2.2830	0.0690	2.2140	11.7200	0.049238296	0.260647170
0.50	2.5910	0.2320	2.3590	14.0790	0.052463027	0.313110197
0.75	3.1080	0.5780	2.5300	16.6090	0.056265985	0.369376181
1.00	4.8580	1.9680	2.8900	19.4990	0.064272212	0.433648393
1.25	7.3070	4.0060	3.3010	22.8000	0.073412654	0.507061047
1.50	7.2820	4.6730	2.6090	25.4090	0.058022907	0.565083954
1.75	9.8340	6.9100	2.9240	28.3330	0.065028355	0.630112310
2.00	8.2950	5.7860	2.5090	30.8420	0.055798955	0.685911264
2.25	6.7450	4.5310	2.2140	33.0560	0.049238296	0.735149561
2.50	4.2260	2.3700	1.8560	34.9120	0.041276548	0.776426109
2.75	2.5430	0.8490	1.6940	36.6060	0.037673746	0.814099855
3.00	1.9620	0.3530	1.6090	38.2150	0.035783387	0.849883243
3.25	1.8070	0.1440	1.6630	39.8780	0.036984321	0.886867564
3.50	1.7500	0.0510	1.6990	41.5770	0.037784944	0.924652508
3.75	1.7000	0.0360	1.6640	43.2410	0.037006561	0.961659068
4.00	1.7420	0.0180	1.7240	44.9650	0.038340932	1

TOTAL WT. 77.5450 grams
 CO3 WT. 44.9650 grams
 % CARBONATE 57.9857

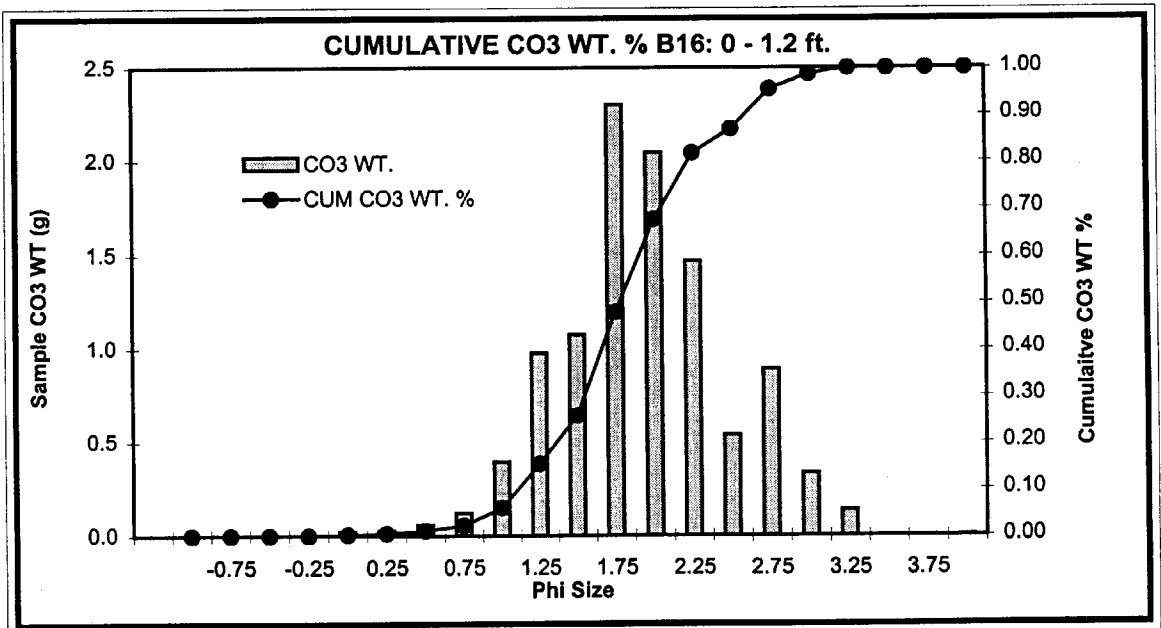


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B16: 0 - 1.2 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0	0	0	0	0	0
-0.75	0	0	0	0	0	0
-0.50	0	0	0	0	0	0
-0.25	0	0	0	0	0	0
0.00	0.0230	0	0.0230	0.0230	0.002213454	0.002213454
0.25	0.0320	0.0050	0.0270	0.0500	0.002598402	0.004811856
0.50	0.0690	0.0130	0.0560	0.1060	0.005389279	0.010201136
0.75	0.1760	0.0570	0.1190	0.2250	0.011452218	0.021653354
1.00	0.7310	0.3360	0.3950	0.6200	0.038013666	0.059667020
1.25	2.7020	1.7250	0.9770	1.5970	0.094023674	0.153690694
1.50	5.1080	4.0330	1.0750	2.6720	0.103454913	0.257145607
1.75	12.3230	10.0220	2.3010	4.9730	0.221441632	0.478587239
2.00	12.9940	10.9500	2.0440	7.0170	0.196708690	0.675295929
2.25	9.4940	8.0260	1.4680	8.4850	0.141276104	0.816572033
2.50	3.7200	3.1820	0.5380	9.0230	0.051775575	0.868347609
2.75	0.8920	0	0.8920	9.9150	0.085843518	0.954191127
3.00	0.3330	0	0.3330	10.2480	0.032046964	0.986238091
3.25	0.1370	0	0.1370	10.3850	0.013184487	0.999422577
3.50	0.0420	0.0400	0.0020	10.3870	0.000192474	0.999615051
3.75	0.0210	0.0200	0.0010	10.3880	0.000096237	0.999711289
4.00	0.0140	0.0110	0.0030	10.3910	0.000288711	1

TOTAL WT. 48.8110 grams
 CO3 WT. 10.3910 grams
 % CARBONATE 21.2882

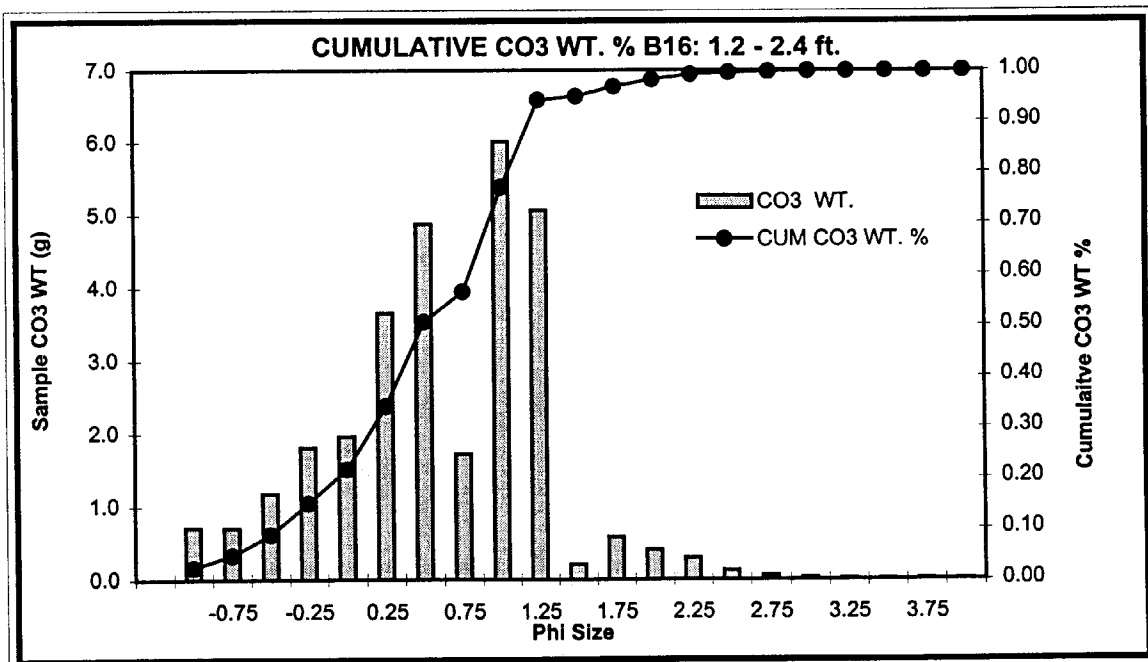


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B16: 1.2 - 2.4 ft (LGT)

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.7090	0	0.7090	0.7090	0.024068982	0.024068982
-0.75	0.7000	0	0.7000	1.4090	0.023763452	0.047832434
-0.50	1.1890	0.0090	1.1800	2.5890	0.040058390	0.087890824
-0.25	1.9340	0.1190	1.8150	4.4040	0.061615236	0.149506060
0.00	2.2750	0.3020	1.9730	6.3770	0.066978986	0.216485046
0.25	4.2930	0.6260	3.6670	10.0440	0.124486540	0.340971586
0.50	6.1970	1.3180	4.8790	14.9230	0.165631259	0.506602845
0.75	4.0330	2.3080	1.7250	16.6480	0.058559935	0.565162780
1.00	10.3520	4.3410	6.0110	22.6590	0.204060155	0.769222935
1.25	5.0700	0	5.0700	27.7290	0.172115287	0.941338222
1.50	4.5440	4.3410	0.2030	27.9320	0.006891401	0.948229623
1.75	5.4020	4.8200	0.5820	28.5140	0.019757613	0.967987236
2.00	3.4920	3.0900	0.4020	28.9160	0.013647011	0.981634247
2.25	2.0080	1.7160	0.2920	29.2080	0.009912754	0.991547001
2.50	0.7980	0.6760	0.1220	29.3300	0.004141630	0.995688631
2.75	0.2950	0.2380	0.0570	29.3870	0.001935024	0.997623655
3.00	0.1440	0.1190	0.0250	29.4120	0.000848695	0.998472350
3.25	0.0580	0.0460	0.0120	29.4240	0.000407373	0.998879723
3.50	0.0260	0.0160	0.0100	29.4340	0.000339478	0.999219201
3.75	0.0210	0.0090	0.0120	29.4460	0.000407373	0.999626574
4.00	0.0160	0.0050	0.0110	29.4570	0.000373426	1

TOTAL WT. 53.5560 grams
CO3 WT. 29.4570 grams
% CARBONATE 55.0022

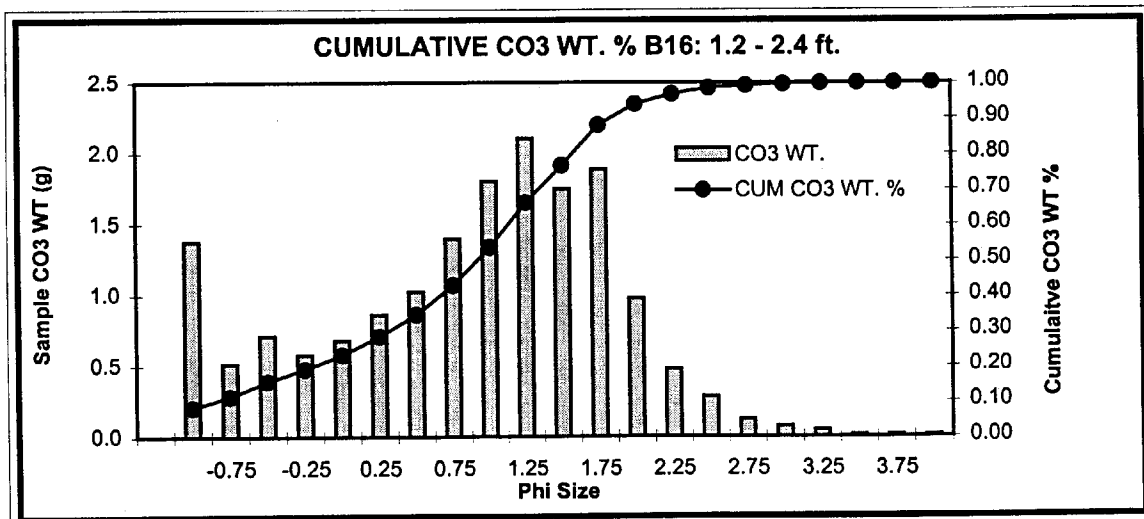


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B16: 1.2 - 2.4 ft (HVY)

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	1.3760	0	1.3760	1.3760	0.082444578	0.082444578
-0.75	0.5140	0	0.5140	1.8900	0.030796884	0.113241462
-0.50	0.7110	0	0.7110	2.6010	0.042600359	0.155841821
-0.25	0.6090	0.0330	0.5760	3.1770	0.034511684	0.190353505
0.00	0.7500	0.0710	0.6790	3.8560	0.040683044	0.231036549
0.25	0.9830	0.1220	0.8610	4.7170	0.051587777	0.282624326
0.50	1.3330	0.3100	1.0230	5.7400	0.061294188	0.343918514
0.75	2.2910	0.8950	1.3960	7.1360	0.083642900	0.427561414
1.00	4.0250	2.2200	1.8050	8.9410	0.108148592	0.535710006
1.25	6.2330	4.1260	2.1070	11.0480	0.126243259	0.661953265
1.50	5.4330	3.6800	1.7530	12.8010	0.105032954	0.766986219
1.75	6.7310	4.8420	1.8890	14.6900	0.113181546	0.880167765
2.00	4.4310	3.4540	0.9770	15.6670	0.058538047	0.938705812
2.25	3.4590	2.9820	0.4770	16.1440	0.028579988	0.967285800
2.50	3.3710	3.0900	0.2810	16.4250	0.016836429	0.984122229
2.75	2.4700	2.3500	0.1200	16.5450	0.007189934	0.991312163
3.00	1.1330	1.0620	0.0710	16.6160	0.004254044	0.995566207
3.25	0.2790	0.2360	0.0430	16.6590	0.002576393	0.998142600
3.50	0.0330	0.0220	0.0110	16.6700	0.000659077	0.998801678
3.75	0.0130	0.0020	0.0110	16.6810	0.000659077	0.999460755
4.00	0.0110	0.0020	0.0090	16.6900	0.000539245	1

TOTAL WT. 46.1890 grams
CO3 WT. 16.6900 grams
% CARBONATE 36.1341

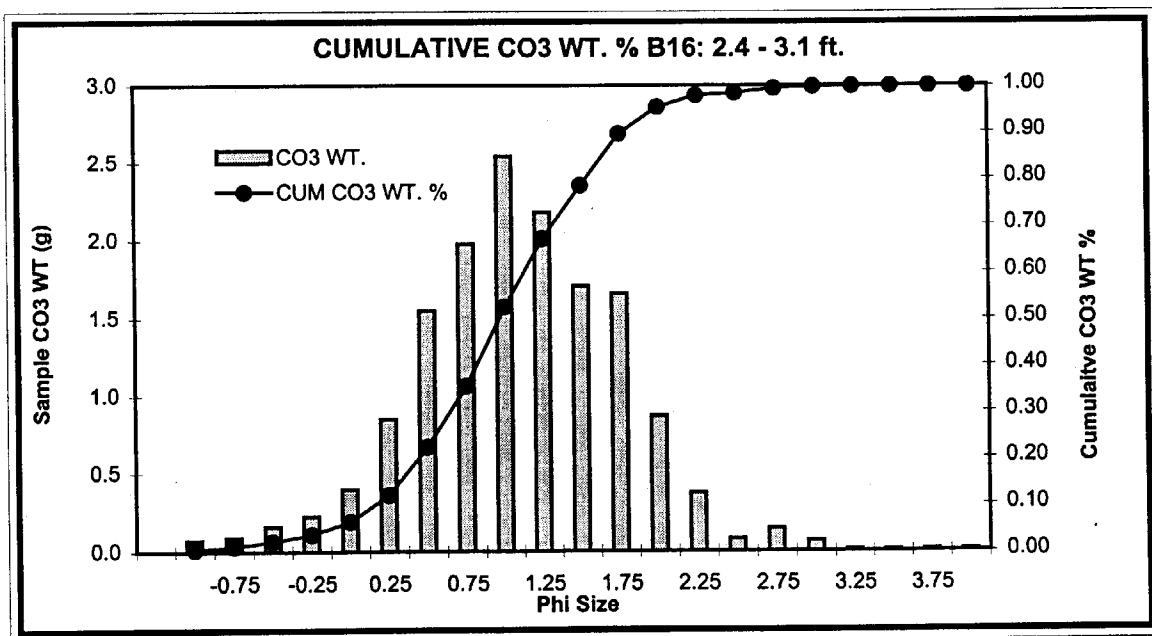


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B16: 2.4 - 3.1 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.0750	0	0.0750	0.0750	0.005004003	0.005004003
-0.75	0.0890	0	0.0890	0.1640	0.005938084	0.010942087
-0.50	0.1650	0.0050	0.1600	0.3240	0.010675207	0.021617294
-0.25	0.2380	0.0120	0.2260	0.5500	0.015078730	0.036696023
0.00	0.4210	0.0230	0.3980	0.9480	0.026554577	0.063250600
0.25	0.9550	0.1060	0.8490	1.7970	0.056645316	0.119895917
0.50	1.9140	0.3630	1.5510	3.3480	0.103482786	0.223378703
0.75	3.2790	1.3010	1.9780	5.3260	0.131972244	0.355350947
1.00	6.4260	3.8850	2.5410	7.8670	0.169535629	0.524886576
1.25	7.6030	5.4220	2.1810	10.0480	0.145516413	0.670402989
1.50	6.2000	4.4940	1.7060	11.7540	0.113824393	0.784227382
1.75	6.7900	5.1290	1.6610	13.4150	0.110821991	0.895049373
2.00	3.6940	2.8240	0.8700	14.2850	0.058046437	0.953095810
2.25	1.7370	1.3640	0.3730	14.6580	0.024886576	0.977982386
2.50	0.5190	0.4400	0.0790	14.7370	0.005270883	0.983253269
2.75	0.1440	0	0.1440	14.8810	0.009607686	0.992860955
3.00	0.0640	0	0.0640	14.9450	0.004270083	0.997131038
3.25	0.0320	0.0220	0.0100	14.9550	0.000667200	0.997798239
3.50	0.0140	0.0050	0.0090	14.9640	0.000600480	0.998398719
3.75	0.0150	0.0030	0.0120	14.9760	0.000800641	0.999199359
4.00	0.0120	0	0.0120	14.9880	0.000800641	1

TOTAL WT. 40.3860 grams
CO3 WT. 14.9880 grams
% CARBONATE 37.1119

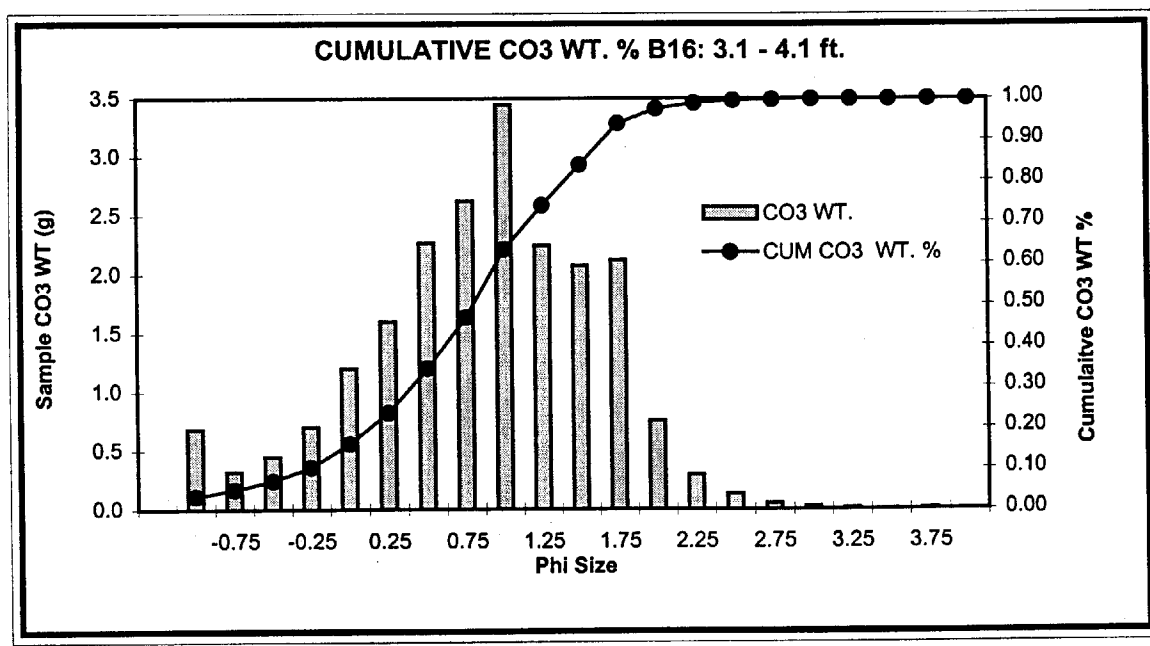


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B16: 3.1 - 4.1 ft (LHT)

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.6810	0	0.6810	0.6810	0.032379232	0.032379232
-0.75	0.3230	0	0.3230	1.0040	0.015357550	0.047736782
-0.50	0.4520	0	0.4520	1.4560	0.021491061	0.069227843
-0.25	0.7150	0.0120	0.7030	2.1590	0.033425257	0.102653100
0.00	1.2530	0.0510	1.2020	3.3610	0.057151008	0.159804108
0.25	1.8330	0.2280	1.6050	4.9660	0.076312286	0.236116394
0.50	2.8520	0.5840	2.2680	7.2340	0.107835679	0.343952073
0.75	4.1490	1.5240	2.6250	9.8590	0.124809814	0.468761887
1.00	7.0620	3.6140	3.4480	13.3070	0.163940662	0.632702548
1.25	7.7140	5.4650	2.2490	15.5560	0.106932294	0.739634842
1.50	6.2440	4.1660	2.0780	17.6340	0.098801826	0.838436668
1.75	6.4190	4.2980	2.1210	19.7550	0.100846329	0.939282997
2.00	3.4170	2.6580	0.7590	20.5140	0.036087866	0.975370863
2.25	2.2640	1.9710	0.2930	20.8070	0.013931153	0.989302016
2.50	1.8140	1.6850	0.1290	20.9360	0.006133511	0.995435527
2.75	0.9090	0.8600	0.0490	20.9850	0.002329783	0.997765310
3.00	0.3500	0.3270	0.0230	21.0080	0.001093572	0.998858882
3.25	0.0800	0.0700	0.0100	21.0180	0.000475466	0.999334348
3.50	0.0110	0.0090	0.0020	21.0200	0.000095093	0.999429441
3.75	0.0140	0.0050	0.0090	21.0290	0.000427919	0.999857360
4.00	0.0060	0.0030	0.0030	21.0320	0.000142640	1

TOTAL WT. 48.5620 grams
 CO3 WT. 21.0320 grams
 % CARBONATE 43.3096

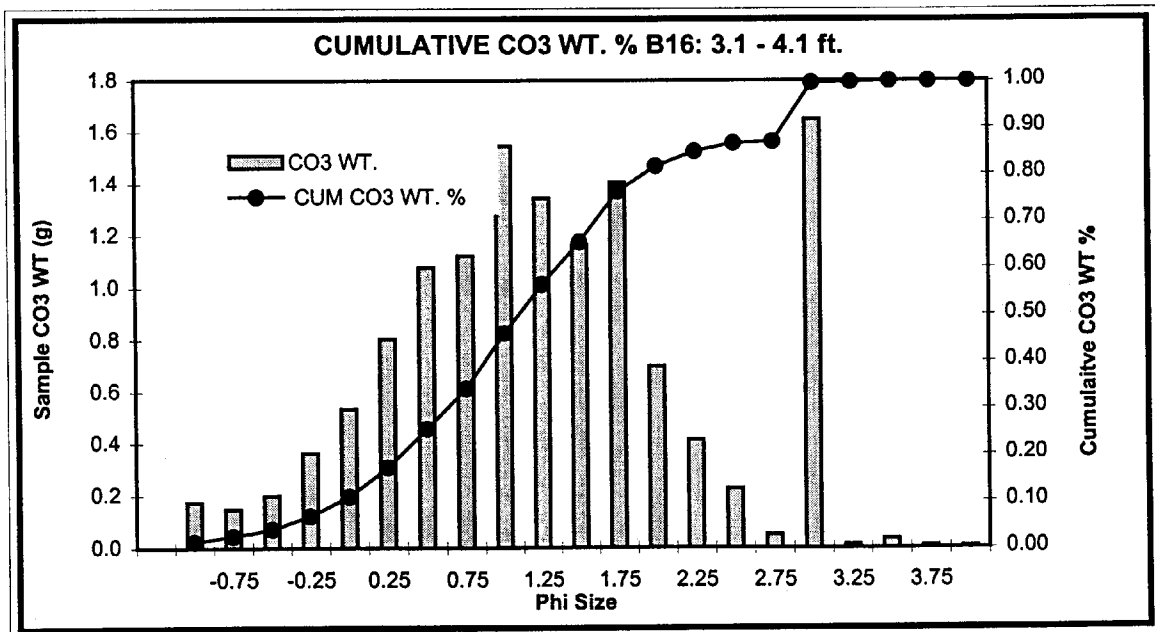


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B16: 3.1 - 4.1 ft (HVY)

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.1740	0	0.1740	0.1740	0.013402141	0.013402141
-0.75	0.1480	0	0.1480	0.3220	0.011399522	0.024801664
-0.50	0.1990	0	0.1990	0.5210	0.015327736	0.040129400
-0.25	0.3720	0.0090	0.3630	0.8840	0.027959640	0.068089040
0.00	0.5630	0.0290	0.5340	1.4180	0.041130709	0.109219749
0.25	0.9250	0.1210	0.8040	2.2220	0.061927135	0.171146884
0.50	1.4090	0.3310	1.0780	3.3000	0.083031657	0.254178541
0.75	1.9210	0.7980	1.1230	4.4230	0.086497728	0.340676269
1.00	3.5710	2.0260	1.5450	5.9680	0.119001772	0.459678041
1.25	4.5890	3.2450	1.3440	7.3120	0.103519988	0.563198028
1.50	4.2670	3.1030	1.1640	8.4760	0.089655704	0.652853732
1.75	5.6300	4.2250	1.4050	9.8810	0.108218439	0.761072171
2.00	4.3840	3.6840	0.7000	10.5810	0.053916660	0.814988832
2.25	4.4540	4.0390	0.4150	10.9960	0.031964877	0.846953709
2.50	5.0740	4.8460	0.2280	11.2240	0.017561426	0.864515135
2.75	3.6290	3.5780	0.0510	11.2750	0.003928214	0.868443349
3.00	1.6490	0.0000	1.6490	12.9240	0.127012247	0.995455596
3.25	0.3690	0.3580	0.0110	12.9350	0.000847262	0.996302858
3.50	0.0350	0	0.0350	12.9700	0.002695833	0.998998691
3.75	0.0160	0.0080	0.0080	12.9780	0.000616190	0.999614881
4.00	0.0070	0.0020	0.0050	12.9830	0.000385119	1

TOTAL WT. 43.3850 grams
CO3 WT. 12.9830 grams
% CARBONATE 29.9251

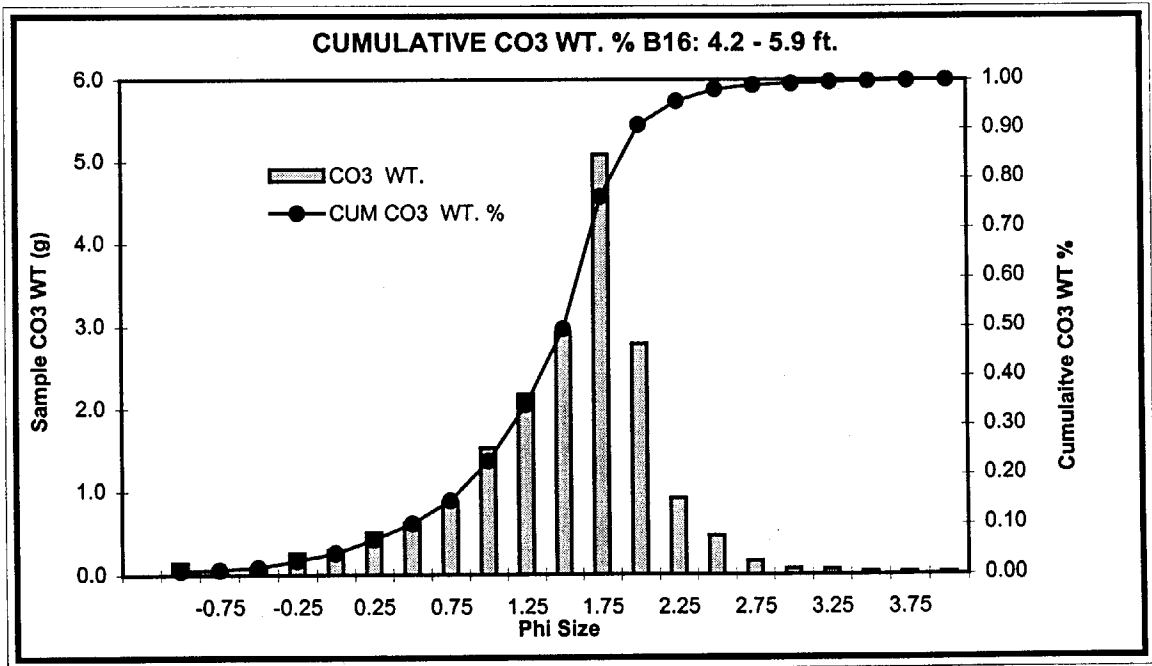


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B16: 4.2 - 5.9 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3. WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.1430	0	0.1430	0.1430	0.007492795	0.007492795
-0.75	0.0400	0	0.0400	0.1830	0.002095887	0.009588682
-0.50	0.0940	0	0.0940	0.2770	0.004925334	0.014514016
-0.25	0.2530	0	0.2530	0.5300	0.013256484	0.027770500
0.00	0.3170	0.0230	0.2940	0.8240	0.015404768	0.043175269
0.25	0.5690	0.0650	0.5040	1.3280	0.026408174	0.069583442
0.50	0.8320	0.2090	0.6230	1.9510	0.032643437	0.102226880
0.75	1.5210	0.6480	0.8730	2.8240	0.045742730	0.147969610
1.00	3.7660	2.2370	1.5290	4.3530	0.080115274	0.228084883
1.25	6.7670	4.5890	2.1780	6.5310	0.114121037	0.342205921
1.50	7.1940	4.2670	2.9270	9.4580	0.153366518	0.495572439
1.75	10.7160	5.6300	5.0860	14.5440	0.266492009	0.762064449
2.00	7.1750	4.3840	2.7910	17.3350	0.146240503	0.908304952
2.25	4.2090	3.2960	0.9130	18.2480	0.047838617	0.956143568
2.50	1.6890	1.2240	0.4650	18.7130	0.024364684	0.980508253
2.75	0.4820	0.3220	0.1600	18.8730	0.008383547	0.988891800
3.00	0.2200	0.1520	0.0680	18.9410	0.003563008	0.992454807
3.25	0.1330	0.0750	0.0580	18.9990	0.003039036	0.995493843
3.50	0.0560	0.0250	0.0310	19.0300	0.001624312	0.997118156
3.75	0.0440	0.0110	0.0330	19.0630	0.001729107	0.998847262
4.00	0.0250	0.0030	0.0220	19.0850	0.001152738	1

TOTAL WT. 46.2450 grams
CO3 WT. 19.0850 grams
% CARBONATE 41.2693

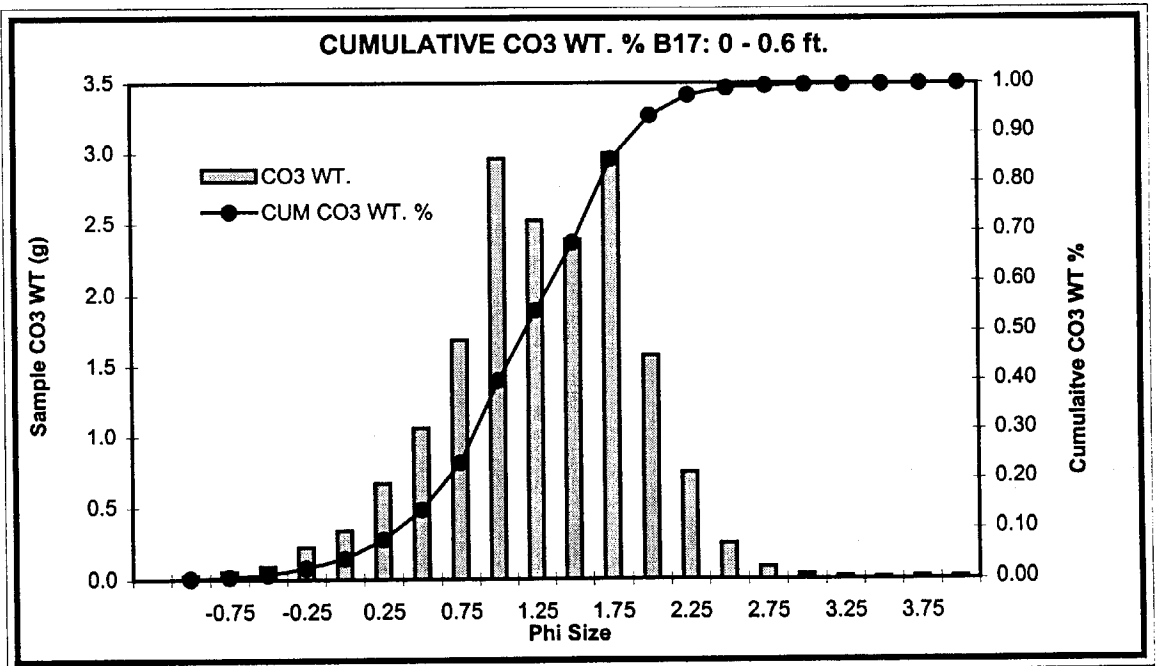


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B17: 0 - 0.6 FT

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.0260	0	0.0260	0.0260	0.001463882	0.001463882
-0.75	0.0520	0	0.0520	0.0780	0.002927763	0.004391645
-0.50	0.0880	0	0.0880	0.1660	0.004954676	0.009346321
-0.25	0.2250	0.0030	0.2220	0.3880	0.012499296	0.021845617
0.00	0.3610	0.0250	0.3360	0.7240	0.018917854	0.040763471
0.25	0.7620	0.0930	0.6690	1.3930	0.037666798	0.078430269
0.50	1.2900	0.2290	1.0610	2.4540	0.059737627	0.138167896
0.75	2.5230	0.8370	1.6860	4.1400	0.094927087	0.233094983
1.00	5.9230	2.9620	2.9610	7.1010	0.166713586	0.399808569
1.25	8.3130	5.7890	2.5240	9.6250	0.142109115	0.541917685
1.50	8.3120	5.9210	2.3910	12.0160	0.134620798	0.676538483
1.75	10.9200	7.9200	3.0000	15.0160	0.168909408	0.845447891
2.00	6.3900	4.8150	1.5750	16.5910	0.088677439	0.934125331
2.25	3.2850	2.5390	0.7460	17.3370	0.042002140	0.976127470
2.50	1.4130	1.1660	0.2470	17.5840	0.013906875	0.990034345
2.75	0.6770	0.5920	0.0850	17.6690	0.004785767	0.994820111
3.00	0.3070	0.2760	0.0310	17.7000	0.001745397	0.996565509
3.25	0.1020	0.0850	0.0170	17.7170	0.000957153	0.997522662
3.50	0.0320	0.0200	0.0120	17.7290	0.000675638	0.998198300
3.75	0.0260	0.0080	0.0180	17.7470	0.001013456	0.999211756
4.00	0.0170	0.0030	0.0140	17.7610	0.000788244	1

TOTAL WT. 51.0440 grams
 CO3 WT. 17.7610 grams
 % CARBONATE 34.7955

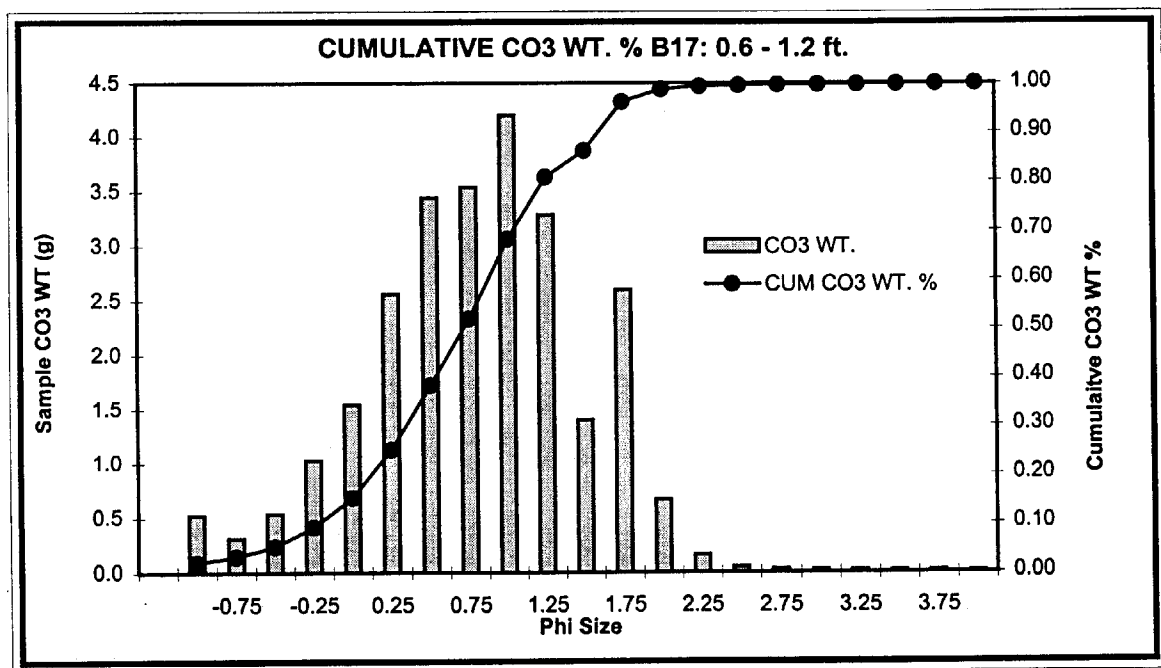


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B17: 0.6 - 1.2 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.5220	0	0.5220	0.5220	0.020102438	0.020102438
-0.75	0.3090	0	0.3090	0.8310	0.011899719	0.032002157
-0.50	0.5380	0.0040	0.5340	1.3650	0.020564563	0.052566719
-0.25	1.0520	0.0270	1.0250	2.3900	0.039473177	0.092039897
0.00	1.6930	0.1500	1.5430	3.9330	0.059421574	0.151461470
0.25	3.0310	0.4670	2.5640	6.4970	0.098740709	0.250202180
0.50	4.7660	1.3220	3.4440	9.9410	0.132629876	0.382832056
0.75	6.3630	2.8200	3.5430	13.4840	0.136442408	0.519274464
1.00	10.3680	6.1640	4.2040	17.6880	0.161897793	0.681172257
1.25	11.3180	8.0310	3.2870	20.9750	0.126583741	0.807755998
1.50	7.4260	6.0280	1.3980	22.3730	0.053837563	0.861593561
1.75	8.0770	5.4770	2.6000	24.9730	0.100127084	0.961720645
2.00	2.7290	2.0640	0.6650	25.6380	0.025609427	0.987330073
2.25	0.7750	0.6160	0.1590	25.7970	0.006123156	0.993453229
2.50	0.1970	0.1490	0.0480	25.8450	0.001848500	0.995301729
2.75	0.0650	0.0350	0.0300	25.8750	0.001155313	0.996457042
3.00	0.0380	0.0150	0.0230	25.8980	0.000885740	0.997342781
3.25	0.0290	0.0080	0.0210	25.9190	0.000808719	0.998151500
3.50	0.0170	0	0.0170	25.9360	0.000654677	0.998806177
3.75	0.0190	0	0.0190	25.9550	0.000731698	0.999537875
4.00	0.0120	0	0.0120	25.9670	0.000462125	1

TOTAL WT. 59.3440 grams
CO3 WT. 25.9670 grams
% CARBONATE 43.7567

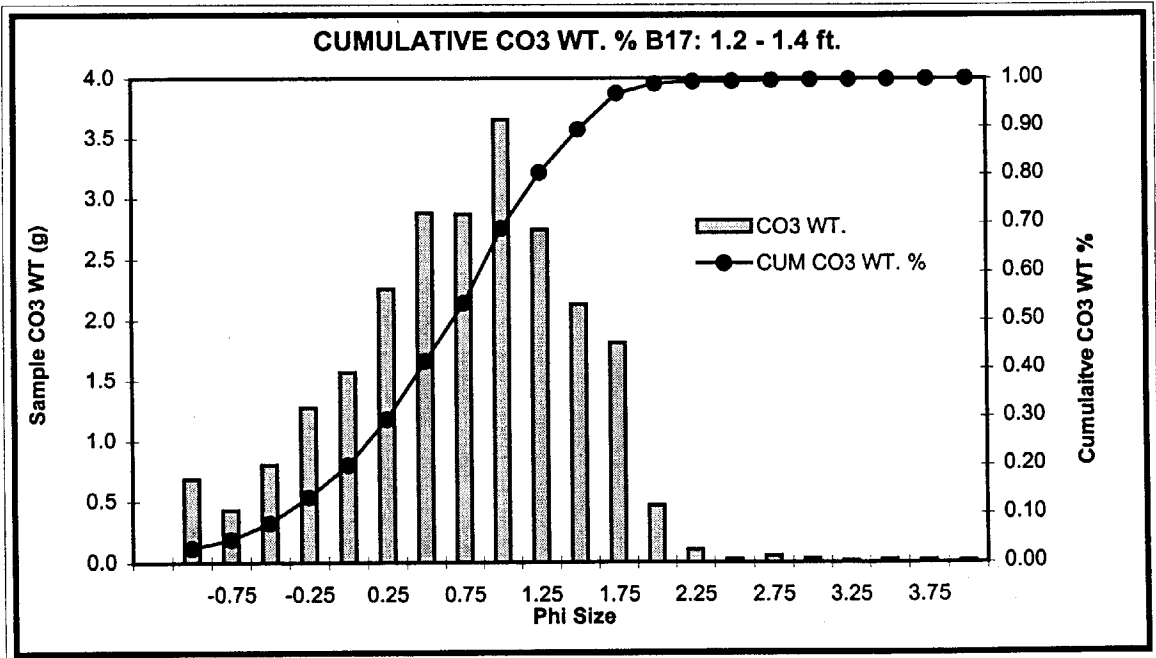


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B17: 1.2 - 1.4 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.6900	0	0.6900	0.6900	0.028904155	0.028904155
-0.75	0.4400	0.0070	0.4330	1.1230	0.018138405	0.047042560
-0.50	0.8100	0.0070	0.8030	1.9260	0.033637735	0.080680295
-0.25	1.2960	0.0200	1.2760	3.2020	0.053451743	0.134132038
0.00	1.7180	0.1450	1.5730	4.7750	0.065893097	0.200025134
0.25	2.7400	0.4810	2.2590	7.0340	0.094629692	0.294654826
0.50	3.8920	1.0110	2.8810	9.9150	0.120685322	0.415340147
0.75	4.9850	2.1110	2.8740	12.7890	0.120392091	0.535732239
1.00	8.1320	4.4740	3.6580	16.4470	0.153233914	0.688966153
1.25	9.2400	6.4940	2.7460	19.1930	0.115030161	0.803996314
1.50	6.5600	4.4290	2.1310	21.3240	0.089267761	0.893264075
1.75	5.3150	3.5030	1.8120	23.1360	0.075904826	0.969168901
2.00	1.7270	1.2600	0.4670	23.6030	0.019562668	0.988731568
2.25	0.7070	0.6030	0.1040	23.7070	0.004356568	0.993088137
2.50	0.6040	0.5790	0.0250	23.7320	0.001047252	0.994135389
2.75	0.4660	0.4160	0.0500	23.7820	0.002094504	0.996229893
3.00	0.2090	0.1830	0.0260	23.8080	0.001089142	0.997319035
3.25	0.0570	0.0430	0.0140	23.8220	0.000586461	0.997905496
3.50	0.0200	0	0.0200	23.8420	0.000837802	0.998743298
3.75	0.0180	0	0.0180	23.8600	0.000754021	0.999497319
4.00	0.0120	0	0.0120	23.8720	0.000502681	1

TOTAL WT. 49.6380 grams
CO3 WT. 23.8720 grams
% CARBONATE 48.0922

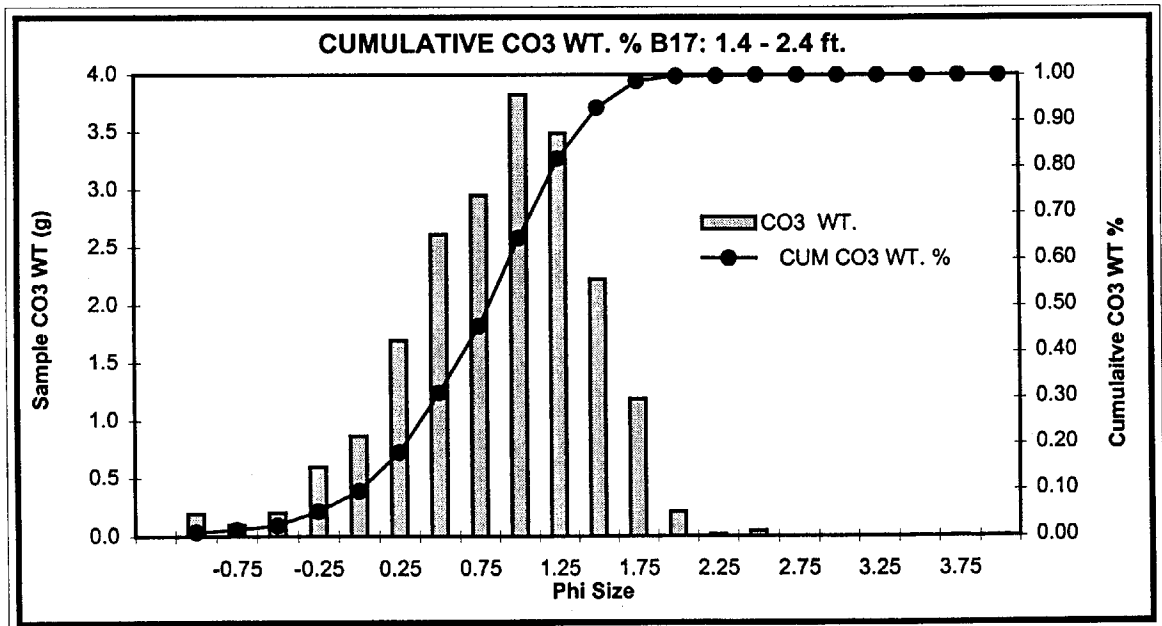


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B17: 1.4 - 2.4 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.1940	0	0.1940	0.1940	0.009591141	0.009591141
-0.75	0.0970	0	0.0970	0.2910	0.004795570	0.014386711
-0.50	0.2070	0	0.2070	0.4980	0.010233846	0.024620557
-0.25	0.6170	0.0180	0.5990	1.0970	0.029613882	0.054234439
0.00	0.9350	0.0670	0.8680	1.9650	0.042912938	0.097147377
0.25	2.0060	0.3110	1.6950	3.6600	0.083798883	0.180946260
0.50	3.4310	0.8190	2.6120	6.2720	0.129134325	0.310080585
0.75	5.1110	2.1630	2.9480	9.2200	0.145745785	0.455826371
1.00	9.3990	5.5720	3.8270	13.0470	0.189202551	0.645028922
1.25	10.5360	7.0510	3.4850	16.5320	0.172294458	0.817323380
1.50	6.9460	4.7190	2.2270	18.7590	0.110100361	0.927423741
1.75	4.5070	3.3210	1.1860	19.9450	0.058634498	0.986058239
2.00	0.9660	0.7580	0.2080	20.1530	0.010283285	0.996341524
2.25	0.1850	0.1710	0.0140	20.1670	0.000692144	0.997033668
2.50	0.0440	0	0.0440	20.2110	0.002175310	0.999208978
2.75	0.0170	0.0170	0	20.2110	0	0.999208978
3.00	0.0090	0.0090	0	20.2110	0	0.999208978
3.25	0.0090	0.0060	0.0030	20.2140	0.000148317	0.999357295
3.50	0.0040	0	0.0040	20.2180	0.000197755	0.999555050
3.75	0.0060	0	0.0060	20.2240	0.000296633	0.999851683
4.00	0.0030	0	0.0030	20.2270	0.000148317	1

TOTAL WT. 45.2290 grams
 CO3 WT. 20.2270 grams
 % CARBONATE 44.7213

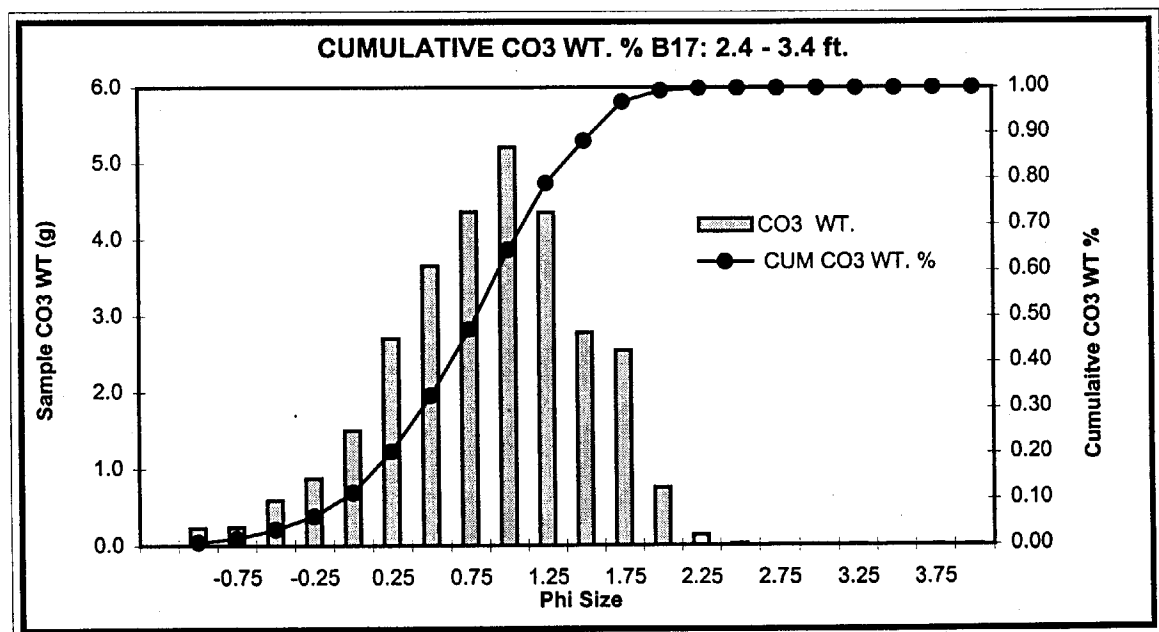


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B17: 2.4 - 3.4 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.2300	0	0.2300	0.2300	0.007662580	0.007662580
-0.75	0.2390	0	0.2390	0.4690	0.007962420	0.015625000
-0.50	0.5840	0	0.5840	1.0530	0.019456290	0.035081290
-0.25	0.8930	0.0210	0.8720	1.9250	0.029051173	0.064132463
0.00	1.6300	0.1320	1.4980	3.4230	0.049906716	0.114039179
0.25	3.1850	0.4790	2.7060	6.1290	0.090151919	0.204191098
0.50	4.8210	1.1620	3.6590	9.7880	0.121901652	0.326092751
0.75	7.2400	2.8740	4.3660	14.1540	0.145455757	0.471548507
1.00	11.0550	5.8460	5.2090	19.3630	0.173540778	0.645089286
1.25	11.1580	6.7980	4.3600	23.7230	0.145255864	0.790345149
1.50	7.5970	4.8120	2.7850	26.5080	0.092783849	0.883128998
1.75	6.2080	3.6580	2.5500	29.0580	0.084954691	0.968083689
2.00	1.8870	1.1360	0.7510	29.8090	0.025019989	0.993103678
2.25	0.4430	0.3020	0.1410	29.9500	0.004697495	0.997801173
2.50	0.1210	0.0950	0.0260	29.9760	0.000866205	0.998667377
2.75	0.0570	0.0510	0.0060	29.9820	0.000199893	0.998867271
3.00	0.0340	0.0290	0.0050	29.9870	0.000166578	0.999033849
3.25	0.0170	0.0140	0.0030	29.9900	0.000099947	0.999133795
3.50	0.0090	0	0.0090	29.9990	0.000299840	0.999433635
3.75	0.0100	0	0.0100	30.0090	0.000333156	0.999766791
4.00	0.0070	0	0.0070	30.0160	0.000233209	1

TOTAL WT. 57.4250 grams
CO3 WT. 30.0160 grams
% CARBONATE 52.2699

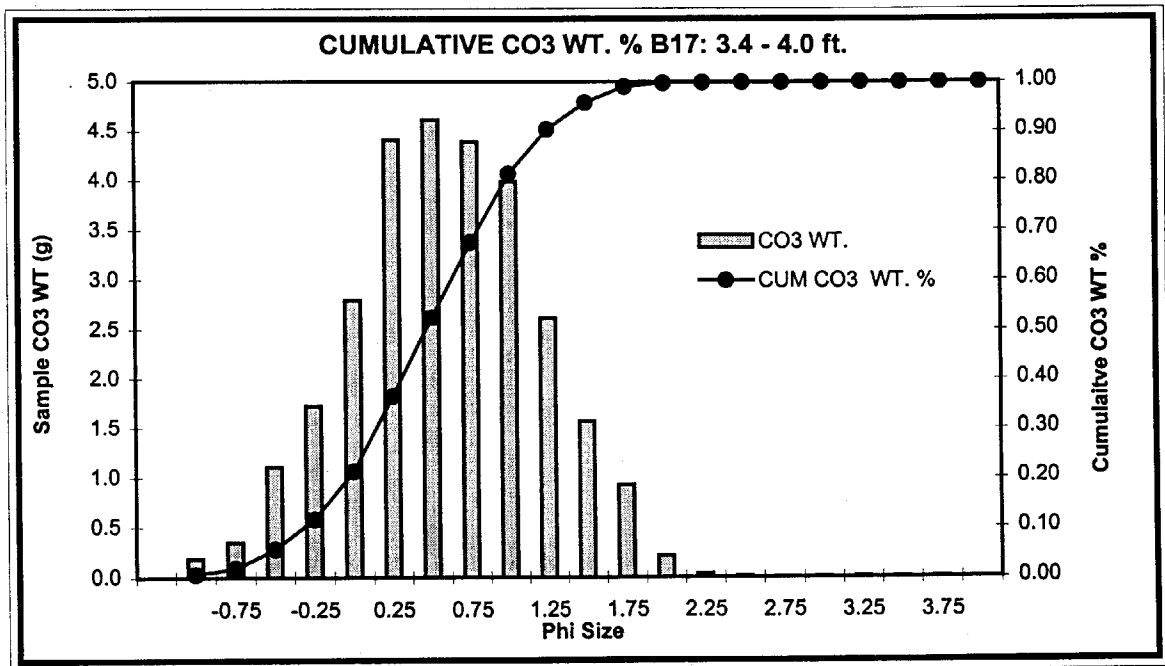


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B17: 3.4 - 4.0 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.1870	0	0.1870	0.1870	0.006452281	0.006452281
-0.75	0.3480	0	0.3480	0.5350	0.012007453	0.018459734
-0.50	1.1080	0	1.1080	1.6430	0.038230626	0.056690360
-0.25	1.7580	0.0310	1.7270	3.3700	0.059588710	0.116279070
0.00	2.9520	0.1590	2.7930	6.1630	0.096370161	0.212649231
0.25	5.1280	0.7170	4.4110	10.5740	0.152197916	0.364847147
0.50	6.5510	1.9350	4.6160	15.1900	0.159271272	0.524118418
0.75	8.0630	3.6710	4.3920	19.5820	0.151542337	0.675660755
1.00	9.7760	5.7910	3.9850	23.5670	0.137499137	0.813159892
1.25	8.2970	5.6820	2.6150	26.1820	0.090228418	0.903388310
1.50	4.4360	2.8680	1.5680	27.7500	0.054102546	0.957490856
1.75	2.5570	1.6280	0.9290	28.6790	0.032054379	0.989545235
2.00	0.6180	0.4070	0.2110	28.8900	0.007280381	0.996825616
2.25	0.1810	0.1450	0.0360	28.9260	0.001242150	0.998067766
2.50	0.1020	0.0890	0.0130	28.9390	0.000448554	0.998516320
2.75	0.0620	0.0580	0.0040	28.9430	0.000138017	0.998654337
3.00	0.0320	0.0270	0.0050	28.9480	0.000172521	0.998826858
3.25	0.0190	0.0090	0.0100	28.9580	0.000345042	0.999171900
3.50	0.0080	0	0.0080	28.9660	0.000276033	0.999447933
3.75	0.0090	0	0.0090	28.9750	0.000310538	0.999758471
4.00	0.0070	0	0.0070	28.9820	0.000241529	1

TOTAL WT. 52.1990 grams
CO3 WT. 28.9820 grams
% CARBONATE 55.5221

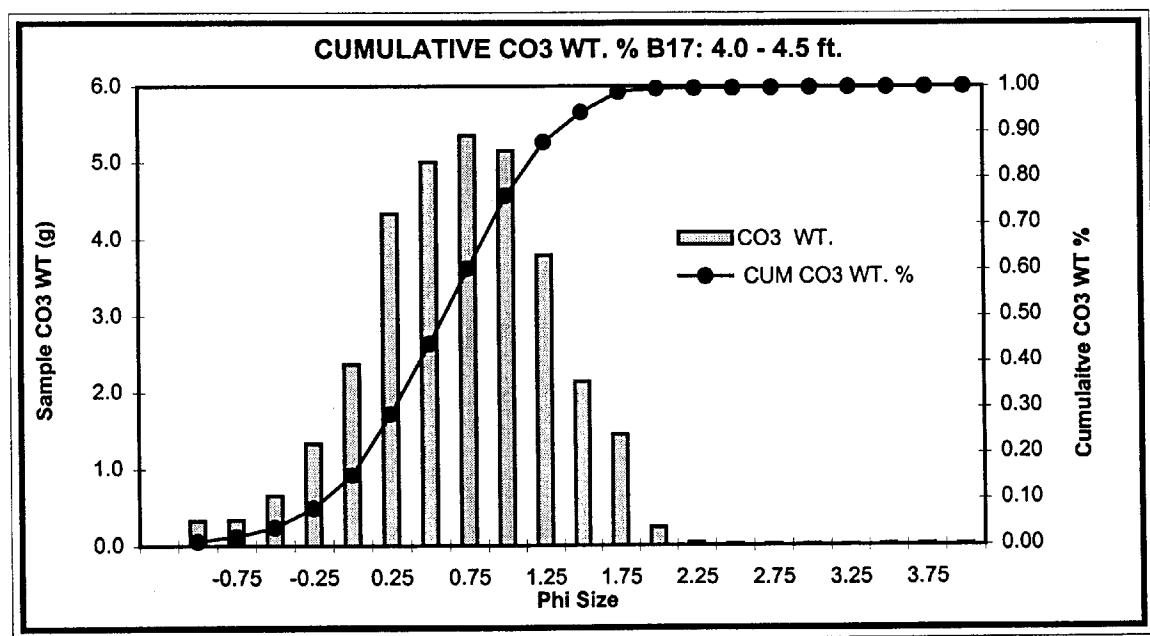


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B17: 4.0 - 4.5 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.3290	0	0.3290	0.3290	0.0100808923	0.0100808923
-0.75	0.3340	0	0.3340	0.6630	0.0102340973	0.0203149896
-0.50	0.6460	0	0.6460	1.3090	0.0197940924	0.0401090820
-0.25	1.3560	0.0250	1.3310	2.6400	0.0407831842	0.0808922662
0.00	2.4940	0.1250	2.3690	5.0090	0.0725885525	0.1534808187
0.25	4.9850	0.6520	4.3330	9.3420	0.1327674960	0.2862483147
0.50	6.9460	1.9400	5.0060	14.3480	0.1533888957	0.4396372104
0.75	9.4290	4.0810	5.3480	19.6960	0.1638681211	0.6035053315
1.00	12.6360	7.4840	5.1520	24.8480	0.1578624831	0.7613678147
1.25	11.7680	7.9800	3.7880	28.6360	0.1160681456	0.8774359603
1.50	6.6660	4.5210	2.1450	30.7810	0.0657249663	0.9431609266
1.75	3.9690	2.5220	1.4470	32.2280	0.0443375414	0.9874984679
2.00	0.7370	0.4960	0.2410	32.4690	0.0073844834	0.9948829513
2.25	0.1590	0.1220	0.0370	32.5060	0.0011337174	0.9960166687
2.50	0.0790	0.0600	0.0190	32.5250	0.0005821792	0.9965988479
2.75	0.0530	0.0340	0.0190	32.5440	0.0005821792	0.9971810271
3.00	0.0360	0.0170	0.0190	32.5630	0.0005821792	0.9977632063
3.25	0.0250	0.0090	0.0160	32.5790	0.0004902562	0.9982534624
3.50	0.0200	0	0.0200	32.5990	0.0006128202	0.9988662826
3.75	0.0220	0	0.0220	32.6210	0.0006741022	0.9995403849
4.00	0.0150	0	0.0150	32.6360	0.0004596151	1

TOTAL WT. 62.7040 grams
CO3 WT. 32.6360 grams
% CARBONATE 52.0477

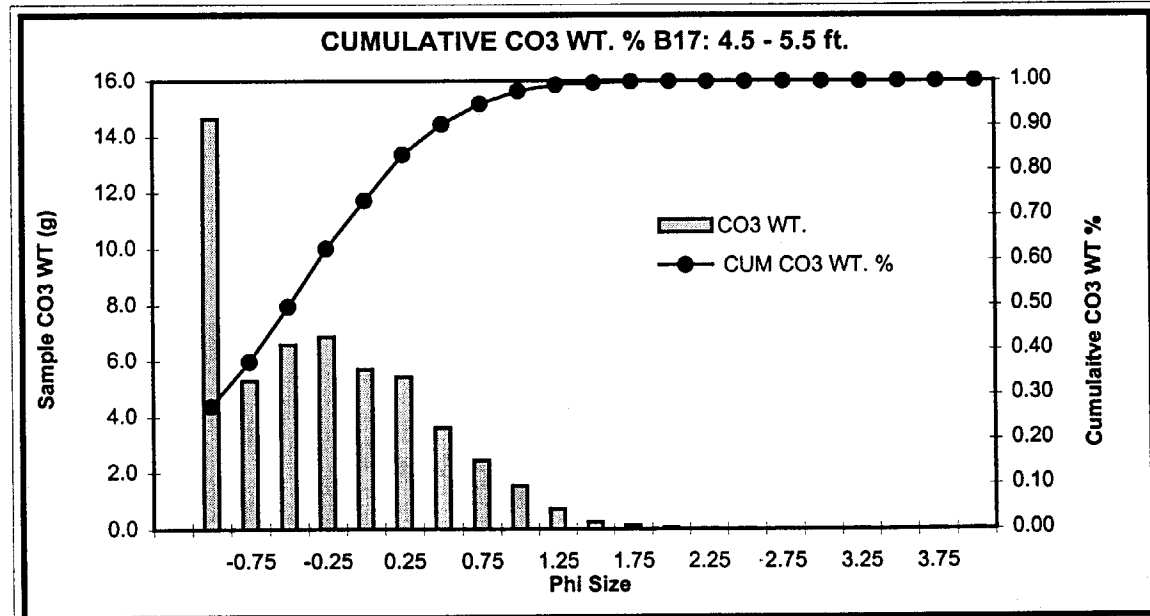


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B17: 4.5 - 5.5 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	14.6390	0	14.6390	14.6390	0.274272118	0.274272118
-0.75	5.3390	0.0270	5.3120	19.9510	0.099524113	0.373796230
-0.50	6.6860	0.0990	6.5870	26.5380	0.123412148	0.497208379
-0.25	7.4120	0.5330	6.8790	33.4170	0.128882977	0.626091355
0.00	6.7260	1.0200	5.7060	39.1230	0.106905984	0.732997340
0.25	7.4040	1.9670	5.4370	44.5600	0.101866077	0.834863417
0.50	5.9970	2.3690	3.6280	48.1880	0.067973170	0.902836587
0.75	4.9970	2.5630	2.4340	50.6220	0.045602728	0.948439315
1.00	3.9760	2.4350	1.5410	52.1630	0.028871735	0.977311050
1.25	2.3690	1.6500	0.7190	52.8820	0.013470978	0.990782029
1.50	0.9130	0.6750	0.2380	53.1200	0.004459100	0.995241129
1.75	0.5540	0.4250	0.1290	53.2490	0.002416907	0.997658036
2.00	0.1670	0.1250	0.0420	53.2910	0.000786900	0.998444936
2.25	0.0660	0.0530	0.0130	53.3040	0.000243564	0.998688500
2.50	0.0370	0.0280	0.0090	53.3130	0.000168621	0.998857121
2.75	0.0270	0.0130	0.0140	53.3270	0.000262300	0.999119421
3.00	0.0180	0.0080	0.0100	53.3370	0.000187357	0.999306779
3.25	0.0150	0.0050	0.0100	53.3470	0.000187357	0.999494136
3.50	0.0100	0	0.0100	53.3570	0.000187357	0.999681493
3.75	0.0110	0	0.0110	53.3680	0.000206093	0.999887586
4.00	0.0060	0	0.0060	53.3740	0.000112414	1

TOTAL WT. 67.3690 grams
CO3 WT. 53.3740 grams
% CARBONATE 79.2264

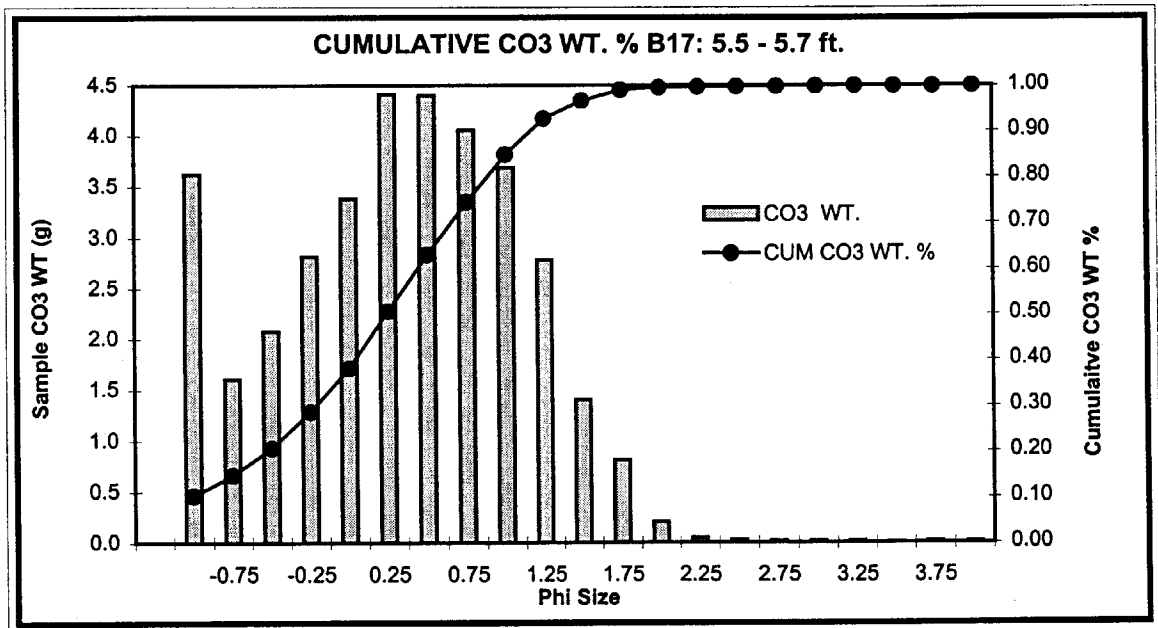


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B17: 5.5 - 5.7 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	3.6200	0	3.6200	3.6200	0.102190605	0.102190605
-0.75	1.6150	0.0100	1.6050	5.2250	0.045308266	0.147498871
-0.50	2.1410	0.0630	2.0780	7.3030	0.058660795	0.206159666
-0.25	2.9640	0.1470	2.8170	10.1200	0.079522358	0.285682023
0.00	3.8140	0.4320	3.3820	13.5020	0.095471996	0.381154020
0.25	5.5600	1.1520	4.4080	17.9100	0.124435411	0.505589431
0.50	6.7610	2.3630	4.3980	22.3080	0.124153117	0.629742547
0.75	7.8490	3.7910	4.0580	26.3660	0.114555104	0.744297651
1.00	9.6080	5.9190	3.6890	30.0550	0.104138437	0.848436089
1.25	8.6770	5.8940	2.7830	32.8380	0.078562556	0.926998645
1.50	4.5510	3.1480	1.4030	34.2410	0.039605917	0.966604562
1.75	2.7060	1.8950	0.8110	35.0520	0.022894083	0.989498645
2.00	0.6260	0.4230	0.2030	35.2550	0.005730578	0.995229223
2.25	0.1550	0.1090	0.0460	35.3010	0.001298555	0.996527778
2.50	0.0680	0.0410	0.0270	35.3280	0.000762195	0.997289973
2.75	0.0390	0.0190	0.0200	35.3480	0.000564589	0.997854562
3.00	0.0310	0.0110	0.0200	35.3680	0.000564589	0.998419151
3.25	0.0260	0.0060	0.0200	35.3880	0.000564589	0.998983740
3.50	0.0110	0.0040	0.0070	35.3950	0.000197606	0.999181346
3.75	0.0160	0	0.0160	35.4110	0.000451671	0.999633017
4.00	0.0130	0	0.0130	35.4240	0.000366983	1

TOTAL WT. 60.8510 grams
 CO3 WT. 35.4240 grams
 % CARBONATE 58.2143

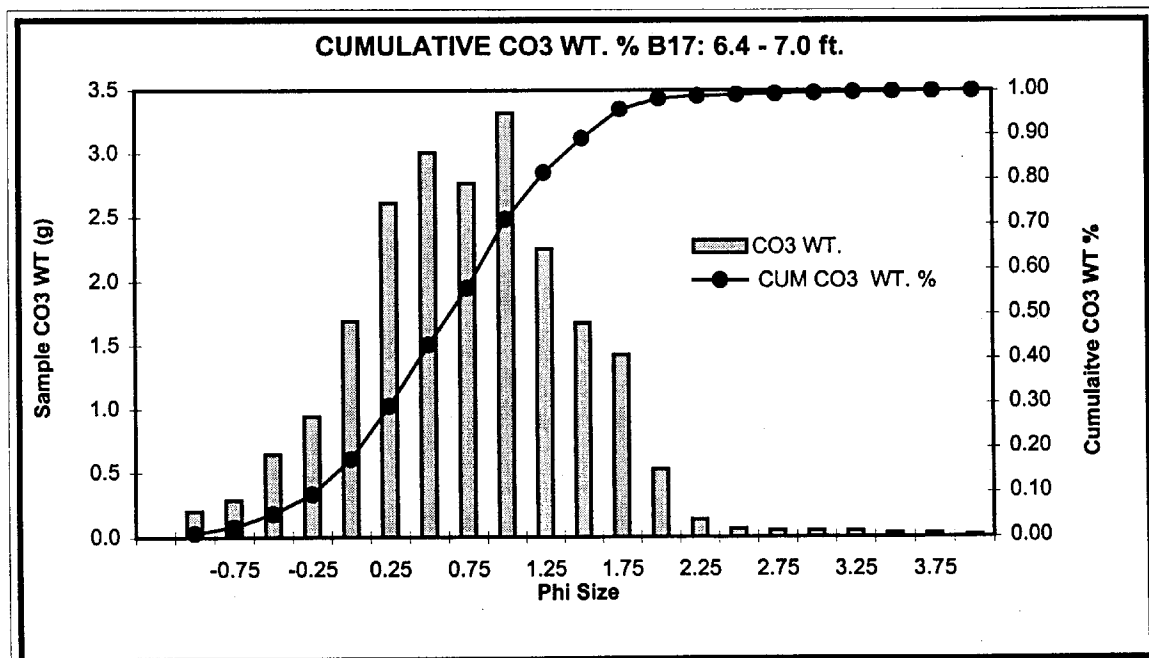


CARBONATE GRAIN SIZE DISTRIBUTION CHART

CORE B17: 6.4 - 7.0 ft

PHI SIZE	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. CO3 WT.	CO3 WT. %	CUM CO3 WT. %
<-1.00	0.2050	0	0.2050	0.2050	0.009407554	0.009407554
-0.75	0.2890	0	0.2890	0.4940	0.013262356	0.022669910
-0.50	0.6500	0	0.6500	1.1440	0.029828828	0.052498738
-0.25	0.9680	0.0200	0.9480	2.0920	0.043504199	0.096002937
0.00	1.8000	0.1050	1.6950	3.7870	0.077784406	0.173787343
0.25	3.0120	0.4000	2.6120	6.3990	0.119866000	0.293653343
0.50	4.1930	1.1860	3.0070	9.4060	0.137992749	0.431646092
0.75	5.2210	2.4570	2.7640	12.1700	0.126841357	0.558487449
1.00	7.7520	4.4310	3.3210	15.4910	0.152402368	0.710889817
1.25	8.1280	5.8720	2.2560	17.7470	0.103528980	0.814418797
1.50	5.7120	4.0350	1.6770	19.4240	0.076958377	0.891377174
1.75	4.6160	3.1880	1.4280	20.8520	0.065531642	0.956908816
2.00	1.4640	0.9370	0.5270	21.3790	0.024184296	0.981093112
2.25	0.4510	0.3170	0.1340	21.5130	0.006149328	0.987242440
2.50	0.2000	0.1370	0.0630	21.5760	0.002891102	0.990133541
2.75	0.1070	0.0600	0.0470	21.6230	0.002156854	0.992290395
3.00	0.0730	0.0250	0.0480	21.6710	0.002202744	0.994493139
3.25	0.0530	0.0080	0.0450	21.7160	0.002065073	0.996558212
3.50	0.0300	0	0.0300	21.7460	0.001376715	0.997934927
3.75	0.0270	0	0.0270	21.7730	0.001239044	0.999173971
4.00	0.0180	0	0.0180	21.7910	0.000826029	1

TOTAL WT. 44.9690 grams
CO3 WT. 21.7910 grams
% CARBONATE 48.4578



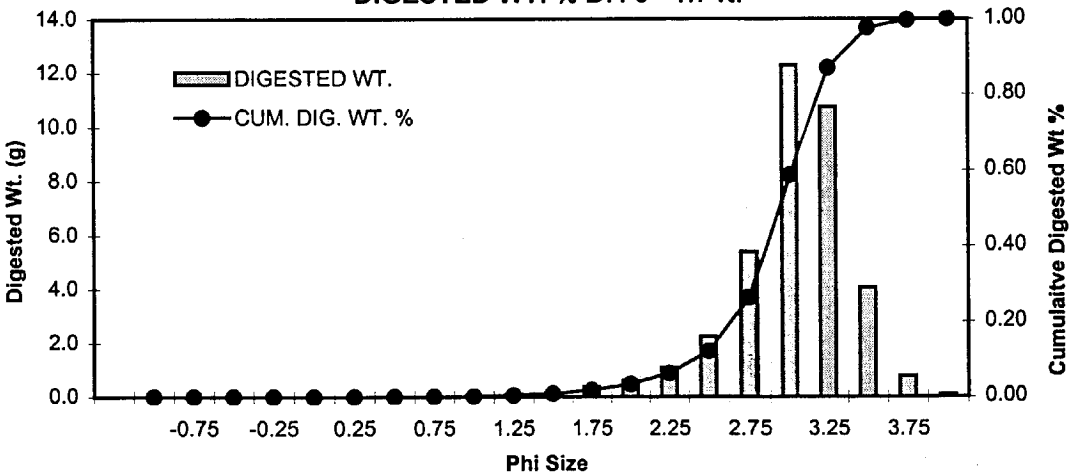
POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B7: 0 - 1.7 ft.

PHI	TOTAL WT.	DIGESTED WT.	WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.0051	0	0.0051	0.0051	0	0
-0.75	0	0	0	0.0051	0	0
-0.50	0.0084	0	0.0084	0.0135	0	0
-0.25	0.0034	0	0.0034	0.0169	0	0
0.00	0.0012	0	0.0012	0.0181	0	0
0.25	0.0122	0.0046	0.0076	0.0303	0.00012113	0.000121132
0.50	0.0143	0.0042	0.0101	0.0446	0.0001106	0.000231731
0.75	0.0269	0.0137	0.0132	0.0715	0.00036076	0.000592494
1.00	0.0749	0.0389	0.036	0.1464	0.00102436	0.001616849
1.25	0.1498	0.101	0.0488	0.2962	0.00265964	0.004276486
1.50	0.2181	0.1556	0.0625	0.5143	0.00409742	0.008373908
1.75	0.4941	0.3679	0.1262	1.0084	0.00968793	0.018061835
2.00	0.8127	0.5932	0.2195	1.8211	0.01562076	0.033682597
2.25	1.4237	1.0986	0.3251	3.2448	0.02892948	0.06261208
2.50	2.7476	2.2484	0.4992	5.9924	0.05920722	0.121819297
2.75	6.1016	5.4061	0.6955	12.094	0.14235907	0.26417837
3.00	12.7314	12.2715	0.4599	24.8254	0.32314596	0.587324326
3.25	11.7497	10.7313	1.0184	36.5751	0.2825878	0.869912127
3.50	4.1772	4.0568	0.1204	40.7523	0.1068279	0.976740022
3.75	0.8453	0.7888	0.0565	41.5976	0.02077151	0.997511527
4.00	0.0996	0.0945	0.0051	41.6972	0.00248847	1

TOTAL WT. 41.6972 grams
 DIGESTED WT. 37.9751 grams
 % SILICA 91.0735

DIGESTED WT. % B7: 0 - 1.7 ft.



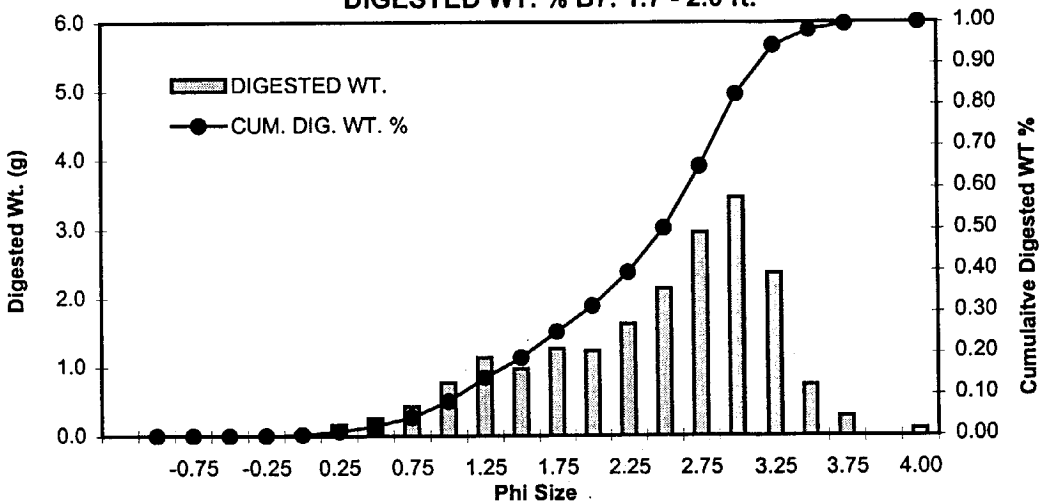
POST DIGESTION GRAIN SIZE DISTRIBUTION

CORE B7: 1.7 - 2.0 ft.

PHI	TOTAL WT.	DIGESTED WT.	CO3. WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.4540	0	0.4540	0.4540	0	0
-0.75	0.2047	0	0.2047	0.6587	0	0
-0.50	0.2005	0	0.2005	0.8592	0	0
-0.25	0.2233	0.0126	0.2107	1.0825	0.000632102	0.000632102
0.00	0.2751	0.0487	0.2264	1.3576	0.002443123	0.003075225
0.25	0.4138	0.1571	0.2567	1.7714	0.007881205	0.010956430
0.50	0.4984	0.2524	0.2460	2.2698	0.012662101	0.023618532
0.75	0.7294	0.4180	0.3114	2.9992	0.020969724	0.044588256
1.00	1.1975	0.7745	0.4230	4.1967	0.038854190	0.083442446
1.25	1.4727	1.1347	0.3380	5.6694	0.056924273	0.140366719
1.50	1.2225	0.9718	0.2507	6.8919	0.048752101	0.189118820
1.75	1.5458	1.2672	0.2786	8.4377	0.063571375	0.252690195
2.00	1.5076	1.2341	0.2735	9.9453	0.061910854	0.314601048
2.25	1.7470	1.6260	0.1210	11.6923	0.081571224	0.396172273
2.50	2.2823	2.1385	0.1438	13.9746	0.107281712	0.503453984
2.75	3.2133	2.9524	0.2609	17.1879	0.148112474	0.651566458
3.00	3.7082	3.4567	0.2515	20.8961	0.173411594	0.824978052
3.25	2.5293	2.3644	0.1649	23.4254	0.118614393	0.943592445
3.50	0.7967	0.7416	0.0551	24.2221	0.037203702	0.980796147
3.75	0.2995	0.2871	0.0124	24.5216	0.014402890	0.995199037
4.00	0.1074	0.0957	0.0117	24.6290	0.004800963	1

TOTAL WT. 24.6290 grams
DIGESTED WT. 19.9335 grams
% SILICA 80.9351

DIGESTED WT. % B7: 1.7 - 2.0 ft.



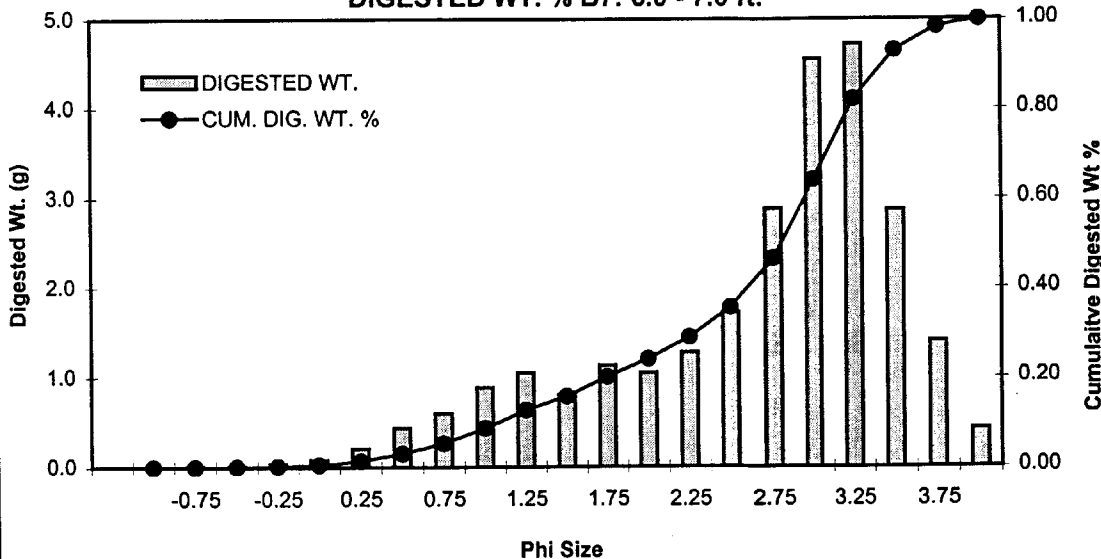
POST DIGESTION GRAIN SIZE DISTRIBUTION

CORE B7: 6.0 - 7.0 ft.

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	4.3674	0	4.3674	4.3674	0	0
-0.75	0.5376	0.0092	0.5284	4.9050	0.00035136	0.00035136
-0.50	0.6083	0.0145	0.5938	5.5133	0.00055377	0.00090512
-0.25	0.5606	0.0384	0.5222	6.0739	0.00146653	0.00237165
0.00	0.6248	0.0878	0.5370	6.6987	0.00335315	0.00572480
0.25	0.7280	0.2071	0.5209	7.4267	0.00790932	0.01363412
0.50	0.9800	0.4330	0.5470	8.4067	0.01653663	0.03017075
0.75	1.0680	0.5982	0.4698	9.4747	0.02284575	0.05301650
1.00	1.4092	0.8879	0.5213	10.8839	0.03390963	0.08692614
1.25	1.4683	1.0525	0.4158	12.3522	0.04019584	0.12712198
1.50	1.0821	0.8083	0.2738	13.4343	0.03086964	0.15799162
1.75	1.3928	1.1367	0.2561	14.8271	0.04341151	0.20140313
2.00	1.3285	1.0543	0.2742	16.1556	0.04026459	0.24166772
2.25	1.4358	1.2804	0.1554	17.5914	0.04889953	0.29056725
2.50	1.9738	1.7275	0.2463	19.5652	0.06597465	0.35654190
2.75	3.3073	2.8799	0.4274	22.8725	0.10998575	0.46652765
3.00	5.0166	4.5498	0.4668	27.8891	0.17376061	0.64028826
3.25	5.0372	4.7156	0.3216	32.9263	0.18009265	0.82038092
3.50	2.9938	2.8701	0.1237	35.9201	0.10961148	0.92999240
3.75	1.4052	1.4052	0.0000	37.3253	0.05366575	0.98365815
4.00	0.4645	0.4279	0.0366	37.7898	0.01634185	1

TOTAL WT. 37.7898 grams
DIGESTED WT. 26.1843 grams
% SILICA 69.2893

DIGESTED WT. % B7: 6.0 - 7.0 ft.

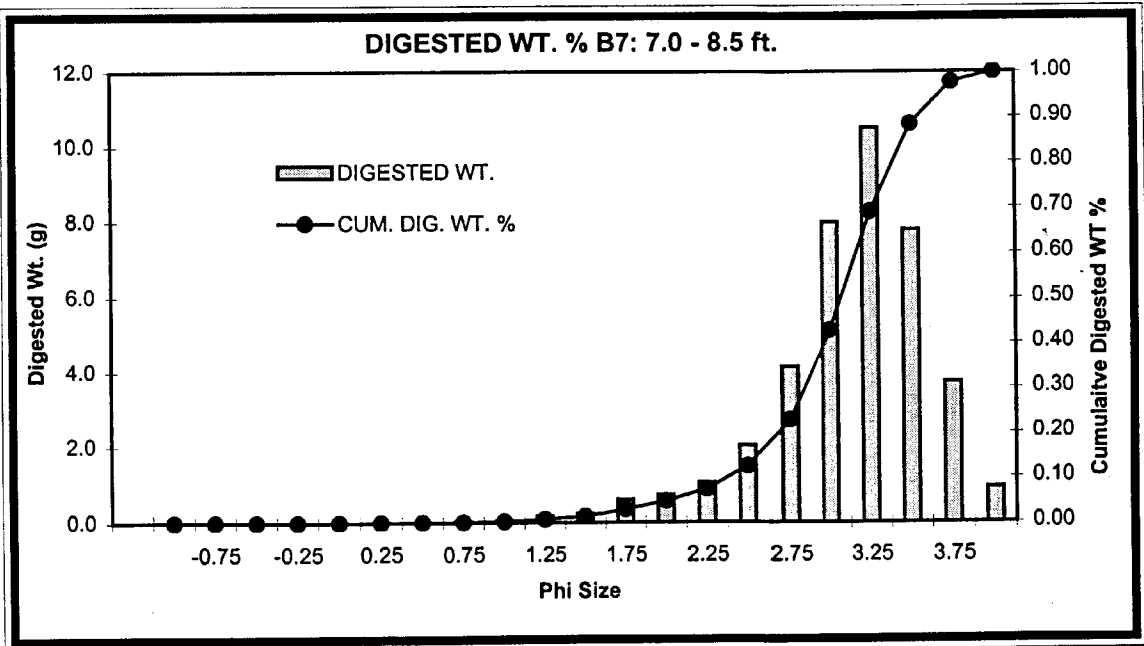


POST DIGESTION GRAIN SIZE DISTRIBUTION

CORE B7: 7.0 - 8.5 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.0403	0	0.0403	0.0403	0	0
-0.75	0.0072	0	0.0072	0.0475	0	0
-0.50	0.0123	0	0.0123	0.0598	0	0
-0.25	0.0027	0	0.0027	0.0625	0	0
0.00	0.0168	0.0052	0.0116	0.0793	0.000129724	0.000129724
0.25	0.0224	0.0078	0.0146	0.1017	0.000194586	0.000324310
0.50	0.1268	0.0107	0.1161	0.2285	0.000266932	0.000591242
0.75	0.0608	0.0313	0.0295	0.2893	0.000780839	0.001372081
1.00	0.1216	0.0725	0.0491	0.4109	0.001808652	0.003180733
1.25	0.2793	0.1813	0.0980	0.6902	0.004522878	0.007703611
1.50	0.3759	0.2517	0.1242	1.0661	0.006279141	0.013982752
1.75	0.8402	0.6051	0.2351	1.9063	0.015095385	0.029078136
2.00	1.0784	0.7460	0.3324	2.9847	0.018610406	0.047688543
2.25	1.4193	1.0608	0.3585	4.4040	0.026463698	0.074152241
2.50	2.5055	2.0363	0.4692	6.9095	0.050799424	0.124951665
2.75	4.9329	4.1513	0.7816	11.8424	0.103562171	0.228513837
3.00	8.7387	7.9735	0.7652	20.5811	0.198914310	0.427428147
3.25	11.2909	10.4934	0.7975	31.8720	0.261778067	0.689206214
3.50	8.3587	7.7961	0.5626	40.2307	0.194488725	0.883694939
3.75	4.0488	3.7389	0.3099	44.2795	0.093274059	0.976968998
4.00	1.0104	0.9232	0.0872	45.2899	0.023031002	1

TOTAL WT. 45.2899 grams
DIGESTED WT. 40.0851 grams
% SILICA 88.5078

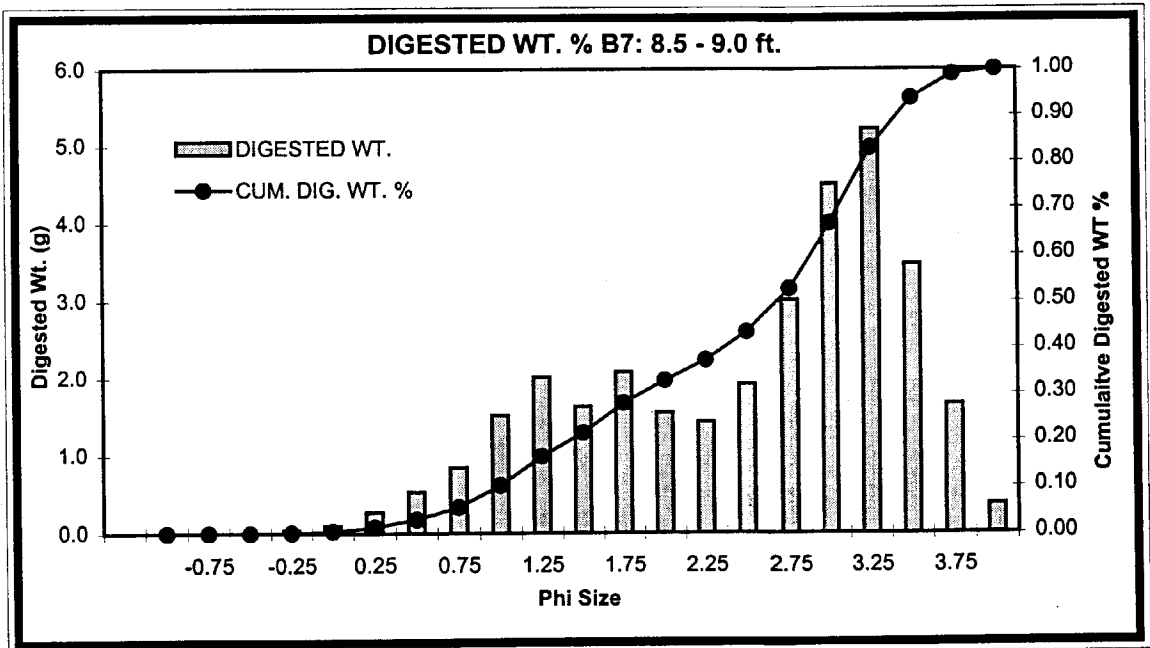


GRAIN SIZE DISTRIBUTION CHART AFTER DIGESTION

CORE B7: 8.5 - 9.0 ft.

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.7992	0	0.7992	0.7992	0	0
-0.75	0.248	0	0.248	1.0472	0	0
-0.50	0.2993	0.0078	0.2915	1.3465	0.000242013	0.000242013
-0.25	0.4038	0.0417	0.3621	1.7503	0.001293838	0.00153585
0.00	0.4583	0.0973	0.361	2.2086	0.003018955	0.004554805
0.25	0.665	0.2694	0.3956	2.8736	0.00835875	0.012913555
0.50	0.9786	0.524	0.4546	3.8522	0.016258296	0.029171851
0.75	1.3108	0.8456	0.4652	5.163	0.02623667	0.055408521
1.00	2.129	1.5209	0.6081	7.292	0.047189394	0.102597914
1.25	2.6355	2.0154	0.6201	9.9275	0.062532385	0.165130299
1.50	2.2298	1.637	0.5928	12.1573	0.050791661	0.21592196
1.75	2.701	2.0811	0.6199	14.8583	0.064570877	0.280492837
2.00	2.0506	1.5632	0.4874	16.9089	0.048501848	0.328994685
2.25	1.7909	1.4383	0.3526	18.6998	0.04462654	0.373621225
2.50	2.2487	1.9282	0.3205	20.9485	0.059826806	0.433448031
2.75	3.4642	3.0214	0.4428	24.4127	0.093745831	0.527193862
3.00	4.8966	4.5059	0.3907	29.3093	0.139805831	0.666999693
3.25	5.7173	5.2199	0.4974	35.0266	0.161959311	0.828959004
3.50	3.7289	3.4788	0.2501	38.7555	0.10793771	0.936896713
3.75	1.8036	1.6662	0.1374	40.5591	0.051697658	0.988594371
4.00	0.4131	0.3676	0.0455	40.9722	0.011405629	1

TOTAL WT. 40.9722 grams
DIGESTED WT. 32.2297 grams
% SILICA 78.6624

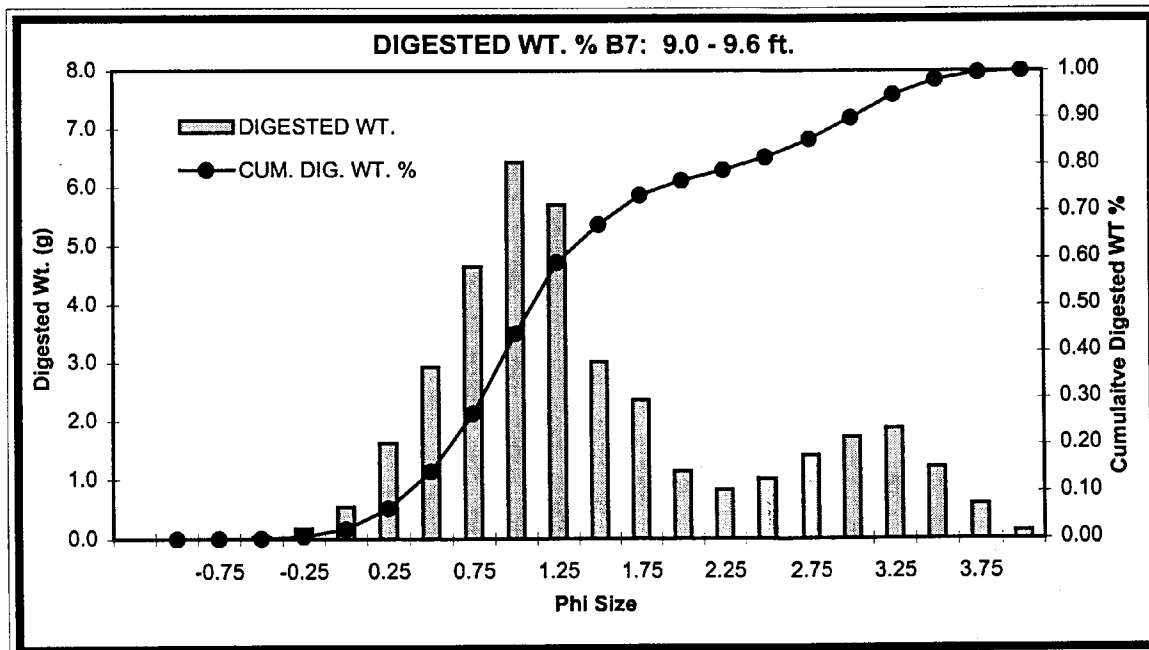


POST DIGESTION GRAIN SIZE DISTRIBUTION

CORE B7: 9.0 - 9.6 ft.

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	1.7858	0	1.7858	1.7858	0	0
-0.75	1.1737	0.0132	1.1605	2.9595	0.000352057	0.000352057
-0.50	1.5264	0.0459	1.4805	4.4859	0.001224199	0.001576256
-0.25	1.8077	0.1836	1.6241	6.2936	0.004896797	0.006473053
0.00	2.1956	0.5498	1.6458	8.4892	0.014663719	0.021136772
0.25	3.6319	1.6260	2.0059	12.1211	0.043367054	0.064503826
0.50	4.8477	2.9230	1.9247	16.9688	0.077959348	0.142463174
0.75	6.7363	4.6494	2.0869	23.7051	0.124004171	0.266467345
1.00	8.3556	6.4325	1.9231	32.0607	0.171561241	0.438028586
1.25	7.6986	5.7049	1.9937	39.7593	0.152155417	0.590184003
1.50	4.1031	3.0248	1.0783	43.8624	0.080674456	0.670858460
1.75	3.2261	2.3667	0.8594	47.0885	0.063122268	0.733980728
2.00	1.5820	1.1477	0.4343	48.6705	0.030610313	0.764591040
2.25	1.1066	0.8362	0.2704	49.7771	0.022302295	0.786893335
2.50	1.2120	1.0227	0.1893	50.9891	0.027276437	0.814169772
2.75	1.5911	1.4212	0.1699	52.5802	0.037904833	0.852074604
3.00	1.9626	1.7283	0.2343	54.5428	0.046095498	0.898170102
3.25	2.0192	1.8771	0.1421	56.5620	0.050064144	0.948234246
3.50	1.2613	1.2165	0.0448	57.8233	0.032445278	0.980679524
3.75	0.6051	0.5880	0.0171	58.4284	0.015682551	0.996362075
4.00	0.1528	0.1364	0.0164	58.5812	0.003637925	1

TOTAL WT. 58.5812 grams
DIGESTED WT. 37.4939 grams
% SILICA 64.0033

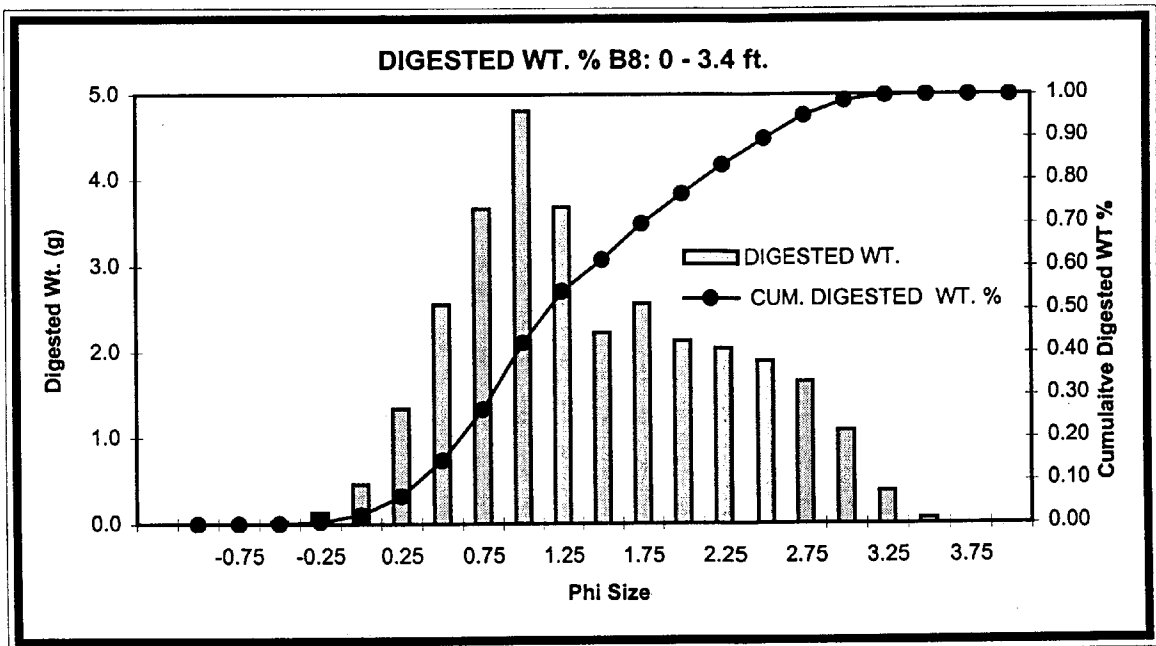


POST DIGESTION GRAIN SIZE DISTRIBUTUION

CORE B8: 0 - 3.4 ft.

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.7037	0	0.7037	0	0	0
-0.75	0.7971	0	0.7971	0	0	0
-0.50	1.2347	0.0313	1.2034	0.0313	0.001017774	0.001017774
-0.25	1.6334	0.1363	1.4971	0.1676	0.004432030	0.005449804
0.00	2.2457	0.4582	1.7875	0.6258	0.014899166	0.020348970
0.25	3.5244	1.3442	2.1802	1.9700	0.043708988	0.064057958
0.50	4.5374	2.5587	1.9787	4.5287	0.083200557	0.147258515
0.75	5.6806	3.6673	2.0133	8.1960	0.119248603	0.266507118
1.00	6.9997	4.8053	2.1944	13.0013	0.156252642	0.422759760
1.25	5.3957	3.6814	1.7143	16.6827	0.119707089	0.542466849
1.50	3.2196	2.2320	0.9876	18.9147	0.072577341	0.615044190
1.75	3.4801	2.5693	0.9108	21.4840	0.083545234	0.698589424
2.00	2.7872	2.1415	0.6457	23.6255	0.069634577	0.768224001
2.25	2.5901	2.0508	0.5393	25.6763	0.066685310	0.834909311
2.50	2.3348	1.9010	0.4338	27.5773	0.061814303	0.896723614
2.75	1.8477	1.6547	0.1930	29.2320	0.053805433	0.950529047
3.00	1.1882	1.0881	0.1001	30.3201	0.035381454	0.985910501
3.25	0.3821	0.3735	0.0086	30.6936	0.012144999	0.998055500
3.50	0.0601	0.0598	0.0003	30.7534	0.001944500	1
3.75	0.0179	0	0.0179	30.7534	0	1
4.00	0.0090	0	0.0090	30.7534	0	1

TOTAL WT. **50.6692** **grams**
DIGESTED WT. **30.7534** **grams**
% SILICA **60.6945**

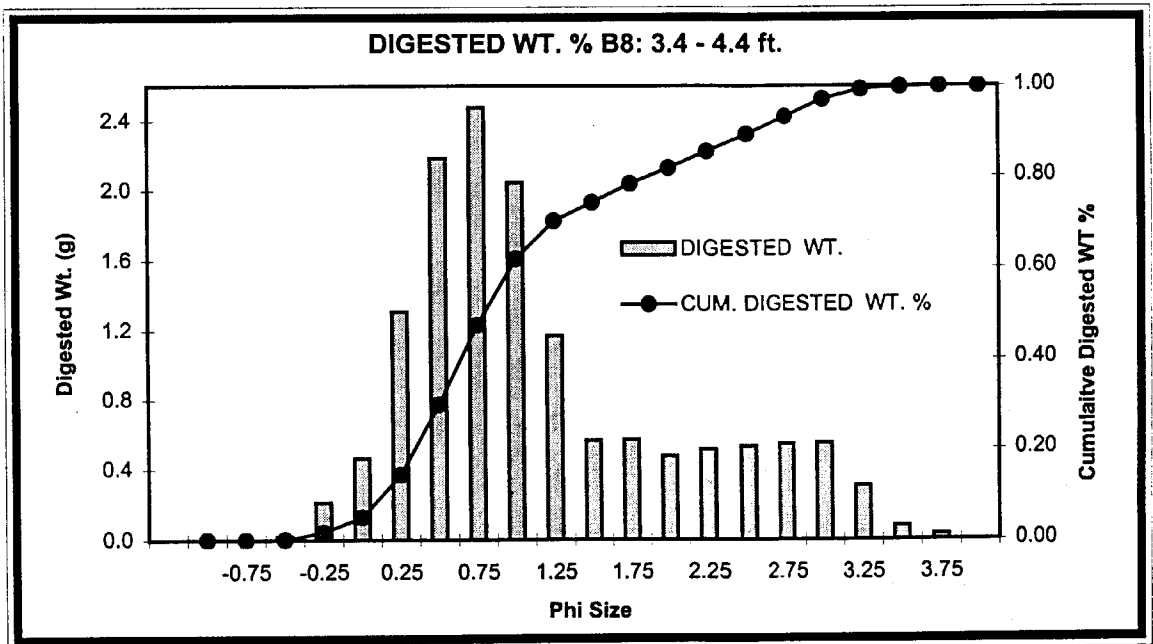


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B8: 3.4 - 4.4 ft.

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	10.7825	0	10.7825	0	0	0
-0.75	1.7298	0	1.7298	0	0	0
-0.50	2.2111	0.0230	2.1881	0.0230	0.001634707	0.001634707
-0.25	2.7618	0.2134	2.5484	0.2364	0.015167238	0.016801945
0.00	3.2744	0.4637	2.8107	0.7001	0.032957114	0.049759058
0.25	4.7128	1.3098	3.4030	2.0099	0.093093008	0.142852066
0.50	5.0708	2.1834	2.8874	4.1933	0.155183443	0.298035509
0.75	5.0860	2.4770	2.6090	6.6703	0.176050832	0.474086341
1.00	4.3540	2.0426	2.3114	8.7129	0.145176193	0.619262534
1.25	2.5350	1.1700	1.3650	9.8829	0.083156832	0.702419366
1.50	1.1827	0.5676	0.6151	10.4505	0.040341725	0.742761091
1.75	1.1111	0.5755	0.5356	11.0260	0.040903211	0.783664302
2.00	0.7803	0.4765	0.3038	11.5025	0.033866864	0.817531166
2.25	0.7089	0.5158	0.1931	12.0183	0.036660080	0.854191246
2.50	0.6841	0.5352	0.1489	12.5535	0.038038920	0.892230167
2.75	0.6135	0.5469	0.0666	13.1004	0.038870489	0.931100655
3.00	0.5747	0.5522	0.0225	13.6526	0.039247182	0.970347837
3.25	0.3427	0.3075	0.0352	13.9601	0.021855321	0.992203159
3.50	0.0823	0.0785	0.0038	14.0386	0.005579326	0.997782484
3.75	0.0326	0.0312	0.0014	14.0698	0.002217516	1
4.00	0.0143	0	0.0143	14.0698	0	1

TOTAL WT. 48.6454 grams
DIGESTED WT. 14.0698 grams
% SILICA 28.9232

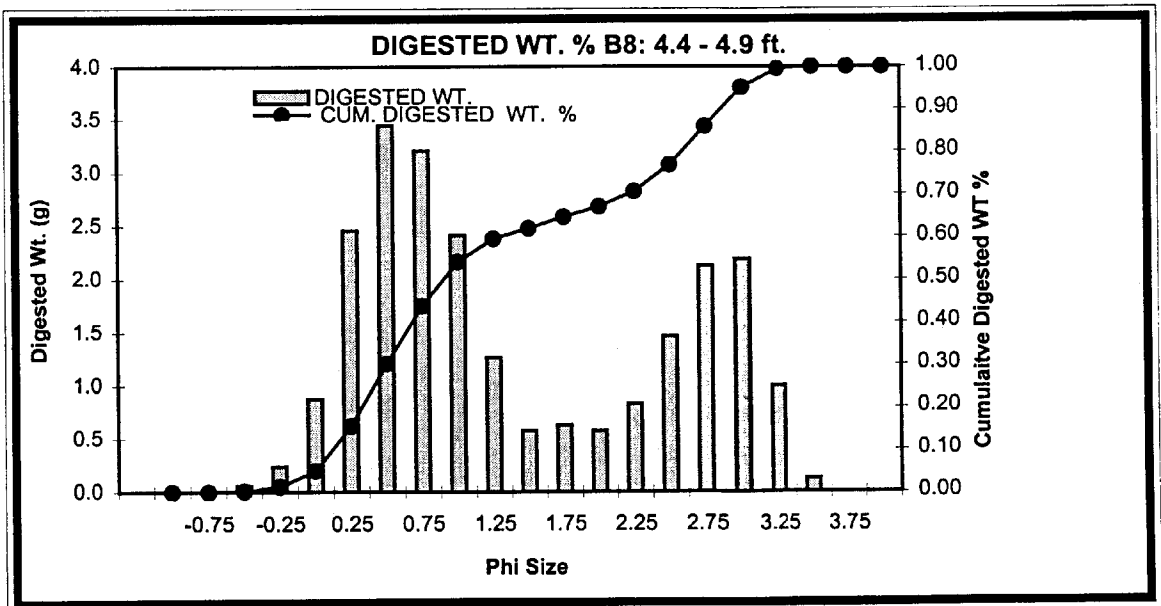


POST DIGESTION GRAIN SIZE DISTRIBUTION

CORE B8: 4.4 - 4.9 ft.

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	2.8003	0	2.8003	0	0	0
-0.75	1.4402	0	1.4402	0	0	0
-0.50	2.3872	0.0603	2.3269	0.0603	0.002570694	0.002570694
-0.25	3.2014	0.2384	2.9630	0.2987	0.010163407	0.012734102
0.00	4.0351	0.8782	3.1569	1.1769	0.037439196	0.050173298
0.25	6.0398	2.4538	3.5860	3.6307	0.104609770	0.154783068
0.50	6.2823	3.4448	2.8375	7.0755	0.146857827	0.301640896
0.75	5.5028	3.2029	2.2999	10.2784	0.136545209	0.438186105
1.00	4.0533	2.4073	1.6460	12.6857	0.102627394	0.540813499
1.25	2.0524	1.2660	0.7864	13.9517	0.053971786	0.594785285
1.50	1.0644	0.5706	0.4938	14.5223	0.024325672	0.619110958
1.75	1.1388	0.6272	0.5116	15.1495	0.026738629	0.645849587
2.00	0.9858	0.5738	0.4120	15.7233	0.024462094	0.670311681
2.25	1.2166	0.8279	0.3887	16.5512	0.035294820	0.705606500
2.50	1.7493	1.4647	0.2846	18.0159	0.062442714	0.768049214
2.75	2.3470	2.1262	0.2208	20.1421	0.090643611	0.858692826
3.00	2.3558	2.1871	0.1687	22.3292	0.093239885	0.951932710
3.25	1.0848	1.0009	0.0839	23.3301	0.042670111	0.994602821
3.50	0.1376	0.1266	0.0110	23.4567	0.005397179	1
3.75	0.0298	0	0.0298	23.4567	0	1
4.00	0.0141	0	0.0141	23.4567	0	1

TOTAL WT. 49.9188 grams
DIGESTED WT. 23.4567 grams
% SILICA 46.9897

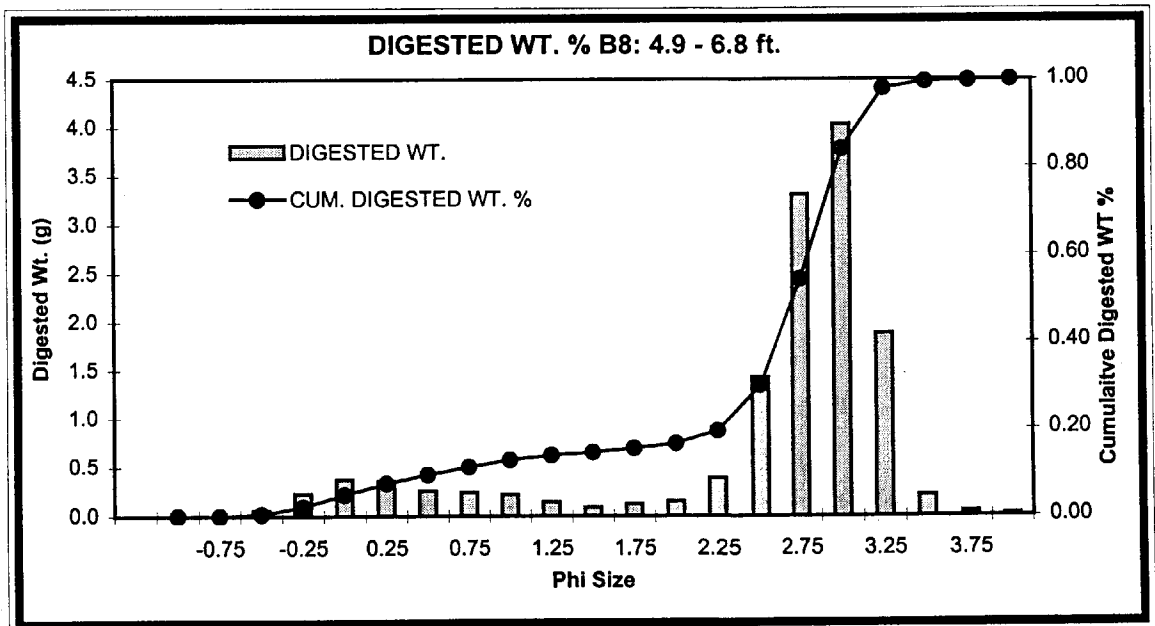


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B8: 4.9 - 6.8 ft.

PHI	TOTAL WT.	DIGESTED WT.	CO3 . WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	12.9236	0	12.9236	0	0	0
-0.75	4.5138	0	4.5138	0	0	0
-0.50	4.7777	0.0579	4.7198	0.0579	0.004259733	0.004259733
-0.25	4.3443	0.2308	4.1135	0.2887	0.016980077	0.021239810
0.00	3.1120	0.3703	2.7417	0.6590	0.027243165	0.048482976
0.25	2.2767	0.3560	1.9207	1.0150	0.026191107	0.074674083
0.50	1.4186	0.2632	1.1554	1.2782	0.019363762	0.094037845
0.75	0.9449	0.2416	0.7033	1.5198	0.017774639	0.111812483
1.00	0.7390	0.2206	0.5184	1.7404	0.016229658	0.128042141
1.25	0.5365	0.1467	0.3898	1.8871	0.010792796	0.138834937
1.50	0.3345	0.0939	0.2406	1.9810	0.006908272	0.145743209
1.75	0.4328	0.1273	0.3055	2.1083	0.009365528	0.155108737
2.00	0.5103	0.1512	0.3591	2.2595	0.011123863	0.166232601
2.25	0.8148	0.3914	0.4234	2.6509	0.028795503	0.195028104
2.50	1.9984	1.4301	0.5683	4.0810	0.105213207	0.300241311
2.75	4.0268	3.3081	0.7187	7.3891	0.243378653	0.543619964
3.00	4.7474	4.0355	0.7119	11.4246	0.296893852	0.840513817
3.25	2.1332	1.8835	0.2497	13.3081	0.138570083	0.979083900
3.50	0.2786	0.2125	0.0661	13.5206	0.015633736	0.994717636
3.75	0.0777	0.0460	0.0317	13.5666	0.003384244	0.998101880
4.00	0.0419	0.0258	0.0161	13.5924	0.001898120	1

TOTAL WT. 50.9835 grams
DIGESTED WT. 13.5924 grams
% SILICA 26.6604



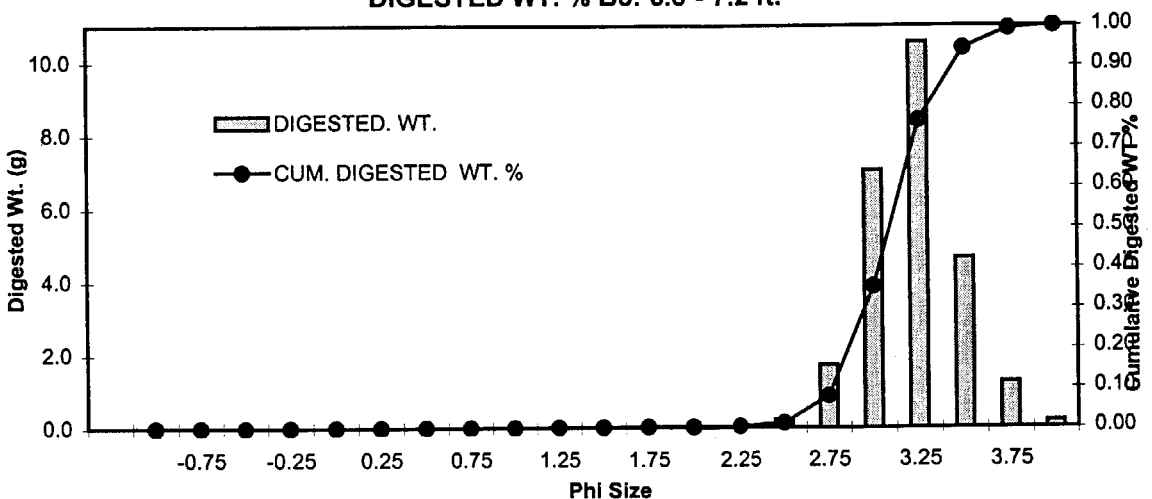
POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

B8: 6.8 - 7.2 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.0474	0	0.0474	0	0	0
-0.75	0	0	0	0	0	0
-0.50	0.0024	0	0.0024	0	0	0
-0.25	0.0132	0	0.0132	0	0	0
0.00	0.0086	0.0019	0.0067	0.0019	0.000073810	0.000073810
0.25	0.0084	0.0042	0.0042	0.0061	0.000163158	0.000236968
0.50	0.0101	0.0076	0.0025	0.0137	0.000295239	0.000532206
0.75	0.0115	0.0048	0.0067	0.0185	0.000186466	0.000718673
1.00	0.0168	0.0090	0.0078	0.0275	0.000349625	0.001068297
1.25	0.0167	0.0050	0.0117	0.0325	0.000194236	0.001262533
1.50	0.0192	0.0054	0.0138	0.0379	0.000209775	0.001472308
1.75	0.0474	0.0141	0.0333	0.0520	0.000547745	0.002020053
2.00	0.0921	0.0148	0.0773	0.0668	0.000574938	0.002594991
2.25	0.2518	0.0314	0.2204	0.0982	0.001219801	0.003814792
2.50	0.7099	0.2156	0.4943	0.3138	0.008375450	0.012190242
2.75	2.3312	1.7351	0.5961	2.0489	0.067403727	0.079593969
3.00	8.1029	7.0475	1.0554	9.0964	0.273775440	0.353369409
3.25	11.7416	10.5544	1.1872	19.6508	0.410008585	0.763377995
3.50	5.0657	4.6537	0.4120	24.3045	0.180783081	0.944161076
3.75	1.4721	1.2521	0.2200	25.5566	0.048640543	0.992801619
4.00	0.2703	0.1853	0.0850	25.7419	0.007198381	1.000000000

TOTAL WT. 30.2393 grams
 DIGESTED WT. 25.7419 grams
 % SILICA 85.1273

DIGESTED WT. % B8: 6.8 - 7.2 ft.

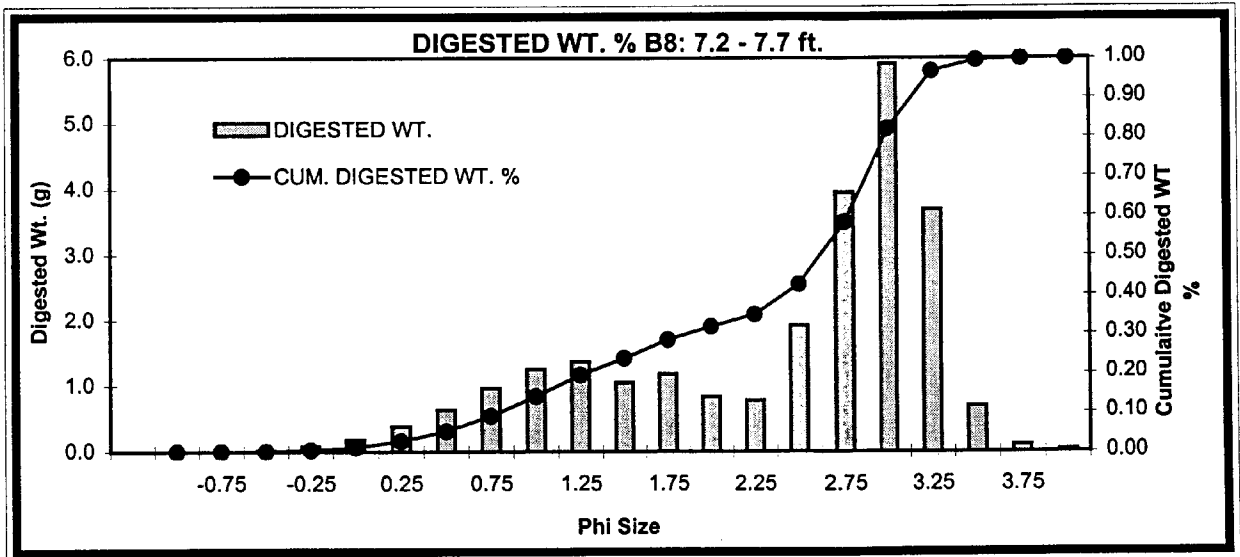


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B8: 7.2 - 7.7 ft.

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT.	CUM. DIGESTED WT. %
-1.00	4.4026	0	4.4026	0	0	0
-0.75	1.2072	0	1.2072	0	0	0
-0.50	1.4831	0.0194	1.4637	0.0194	0.000775058	0.000775058
-0.25	1.8477	0.0782	1.7695	0.0976	0.003124201	0.003899259
0.00	1.9353	0.1822	1.7531	0.2798	0.007279149	0.011178407
0.25	2.1913	0.3842	1.8071	0.6640	0.015349335	0.026527742
0.50	2.1547	0.6369	1.5178	1.3009	0.025445059	0.051972801
0.75	2.1985	0.9640	1.2345	2.2649	0.038513168	0.090485969
1.00	2.4248	1.2515	1.1733	3.5164	0.049999201	0.140485170
1.25	2.5170	1.3693	1.1477	4.8857	0.054705478	0.195190648
1.50	1.7819	1.0504	0.7315	5.9361	0.041964971	0.237155619
1.75	2.0137	1.1791	0.8346	7.1152	0.047106718	0.284262337
2.00	1.4014	0.8387	0.5627	7.9539	0.033507255	0.317769592
2.25	1.3625	0.7810	0.5815	8.7349	0.031202058	0.348971650
2.50	2.3425	1.9213	0.4212	10.6562	0.076758661	0.425730312
2.75	4.5959	3.9481	0.6478	14.6043	0.157732198	0.583462510
3.00	6.5234	5.9080	0.6154	20.5123	0.236032984	0.819495493
3.25	3.9212	3.6884	0.2328	24.2007	0.147356814	0.966852308
3.50	0.7211	0.6990	0.0221	24.8997	0.027926042	0.994778350
3.75	0.1307	0.1027	0.0280	25.0024	0.004103011	0.998881360
4.00	0.0291	0.0280	0.0011	25.0304	0.001118640	1

TOTAL WT. 47.1856 grams
DIGESTED WT. 25.0304 grams
% SILICA 53.0467

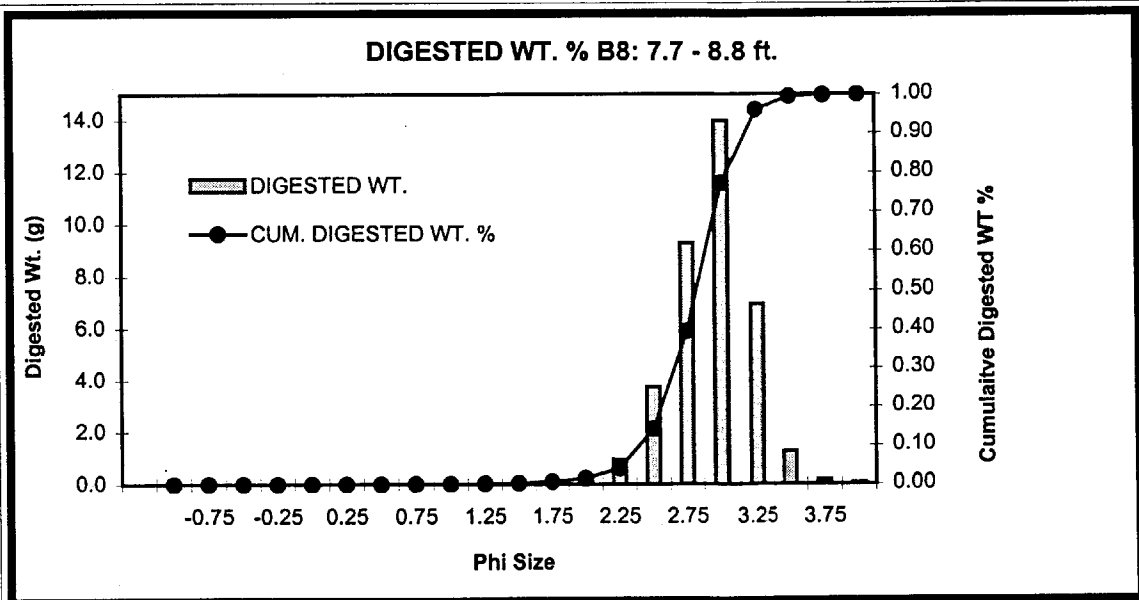


POST DIGESTION GRAIN SIZE DISTRIBUTION

CORE B8: 7.7 - 8.8 ft.

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.2207	0	0.2207	0	0	0
-0.75	0.0603	0	0.0603	0	0	0
-0.50	0.0129	0	0.0129	0	0	0
-0.25	0.0164	0	0.0164	0	0	0
0.00	0.0195	0	0.0195	0	0	0
0.25	0.0205	0.0047	0.0158	0.0047	0.000127113	0.000127113
0.50	0.0309	0.0089	0.0220	0.0136	0.000240703	0.000367815
0.75	0.0383	0.0090	0.0293	0.0226	0.000243407	0.000611222
1.00	0.0747	0.0147	0.0600	0.0373	0.000397565	0.001008787
1.25	0.1106	0.0258	0.0848	0.0631	0.000697767	0.001706554
1.50	0.1471	0.0386	0.1085	0.1017	0.001043946	0.002750500
1.75	0.4137	0.1376	0.2761	0.2393	0.003721423	0.006471923
2.00	0.8396	0.3192	0.5204	0.5585	0.008632837	0.015104760
2.25	1.7083	0.9453	0.7630	1.5038	0.025565854	0.040670613
2.50	4.5039	3.7498	0.7541	5.2536	0.101414195	0.142084808
2.75	10.8610	9.3040	1.5570	14.5576	0.251628799	0.393713607
3.00	15.3589	13.9729	1.3860	28.5305	0.377900263	0.771613870
3.25	7.6126	6.9680	0.6446	35.4985	0.188451147	0.960065017
3.50	1.4330	1.2543	0.1787	36.7528	0.033922829	0.993987846
3.75	0.2752	0.1720	0.1032	36.9248	0.004651779	0.998639625
4.00	0.0830	0.0503	0.0327	36.9751	0.001360375	1

TOTAL WT. 43.8411 grams
 DIGESTED WT. 36.9751 grams
 % SILICA 84.3389

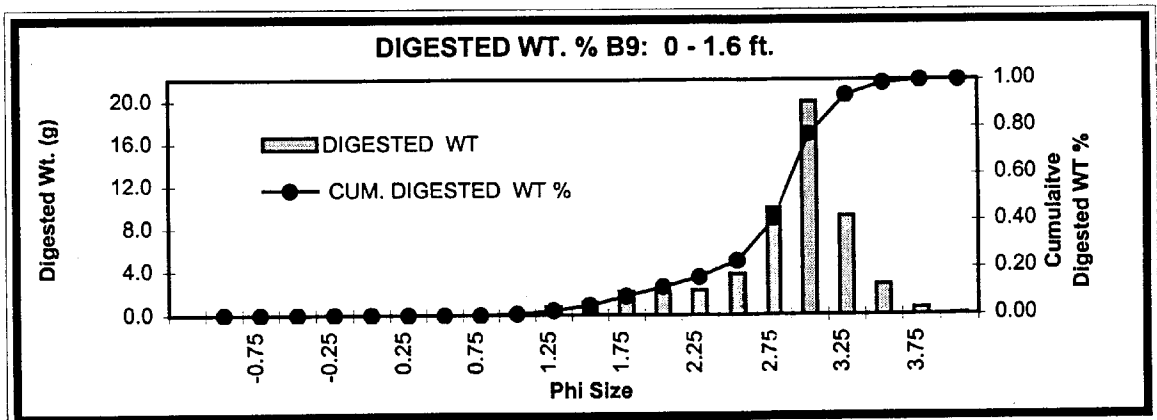


AFTER DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B9: 0 - 1.6 ft.

PHI	TOTAL WT	DIGESTED WT	CO3 WT.	CUM. WT	DIGESTED WT %	CUM. DIGESTED WT %
-1.00	0	0	0	0	0	0
-0.75	0	0	0	0	0	0
-0.50	0	0	0	0	0	0
-0.25	0.0016	0	0.0016	0	0	0
0.00	0.0071	0	0.0071	0	0	0
0.25	0.0270	0	0.0270	0	0	0
0.50	0.0569	0.0086	0.0483	0.0086	0.000155831	0.000155831
0.75	0.1289	0.0207	0.1082	0.0293	0.000375081	0.000530912
1.00	0.4698	0.2552	0.2146	0.2845	0.004624185	0.005155097
1.25	1.1155	0.7932	0.3223	1.0777	0.014372664	0.019527761
1.50	1.4201	1.1646	0.2555	2.2423	0.021102375	0.040630136
1.75	2.5655	2.1512	0.4143	4.3935	0.038979418	0.079609554
2.00	2.7036	2.1170	0.5866	6.5105	0.038359719	0.117969272
2.25	2.8831	2.2501	0.6330	8.7606	0.040771471	0.158740743
2.50	4.6906	3.7474	0.9432	12.5080	0.067902320	0.226643063
2.75	10.7256	9.9558	0.7698	22.4638	0.180397586	0.407040648
3.00	20.5659	19.9626	0.6033	42.4264	0.361719284	0.768759932
3.25	10.3409	9.2309	1.1100	51.6573	0.167262508	0.936022440
3.50	3.1041	2.8054	0.2987	54.4627	0.050833422	0.986855862
3.75	0.6801	0.6171	0.0630	55.0798	0.011181758	0.998037620
4.00	0.1151	0.1083	0.0068	55.1881	0.001962380	1

TOTAL WT. 61.6014 grams
DIGESTED WT. 55.1881 grams
% SILICA 89.5890

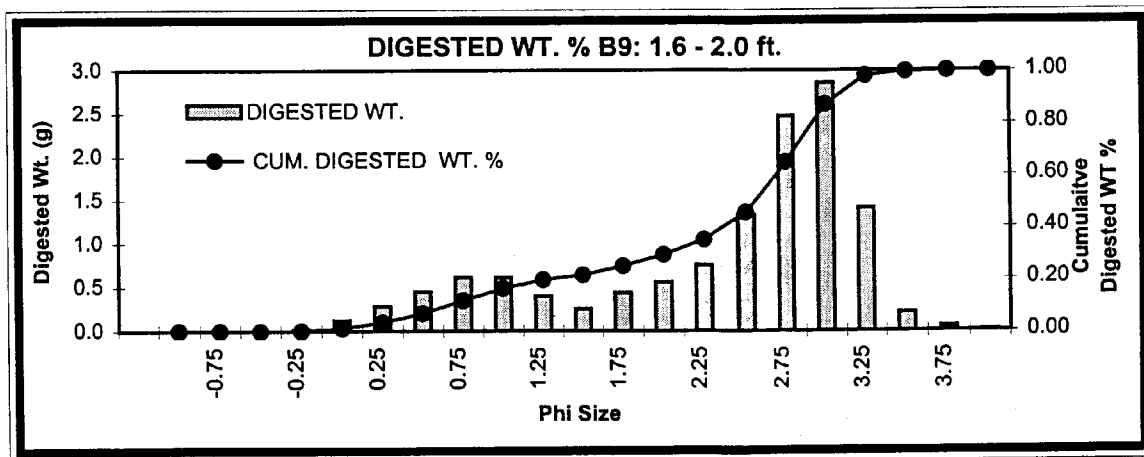


AFTER DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B9: 1.6 - 2.0 ft.

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.5676	0	0.5676	0	0	0
-0.75	0.2012	0	0.2012	0	0	0
-0.50	0.5167	0.0042	0.5125	0.0042	0.000326701	0.000326701
-0.25	0.7080	0.0167	0.6913	0.0209	0.001299025	0.001625725
0.00	0.8724	0.1235	0.7489	0.1444	0.009606559	0.011232284
0.25	1.0535	0.2853	0.7682	0.4297	0.022192318	0.033424602
0.50	1.1006	0.4489	0.6517	0.8786	0.034918091	0.068342694
0.75	1.1234	0.6113	0.5121	1.4899	0.047550522	0.115893216
1.00	1.1049	0.6113	0.4936	2.1012	0.047550522	0.163443737
1.25	0.8686	0.4001	0.4685	2.5013	0.031122139	0.194565877
1.50	0.5418	0.2504	0.2914	2.7517	0.019477590	0.214043467
1.75	0.8626	0.4343	0.4283	3.1860	0.033782417	0.247825884
2.00	1.0152	0.5563	0.4589	3.7423	0.043272297	0.291098181
2.25	1.1858	0.7568	0.4290	4.4991	0.058868371	0.349966552
2.50	1.8227	1.3373	0.4854	5.8364	0.104023087	0.453989639
2.75	2.8581	2.4789	0.3792	8.3153	0.192823473	0.646813112
3.00	3.1185	2.8509	0.2676	11.1662	0.221759828	0.868572940
3.25	1.4594	1.4132	0.0462	12.5794	0.109927037	0.978499977
3.50	0.2380	0.2103	0.0277	12.7897	0.016358375	0.994858352
3.75	0.0630	0.0513	0.0117	12.8410	0.003990417	0.998848769
4.00	0.0174	0.0148	0.0026	12.8558	0.001151231	1

TOTAL WT. 21.2994 grams
DIGESTED WT. 12.8558 grams
% SILICA 60.3576

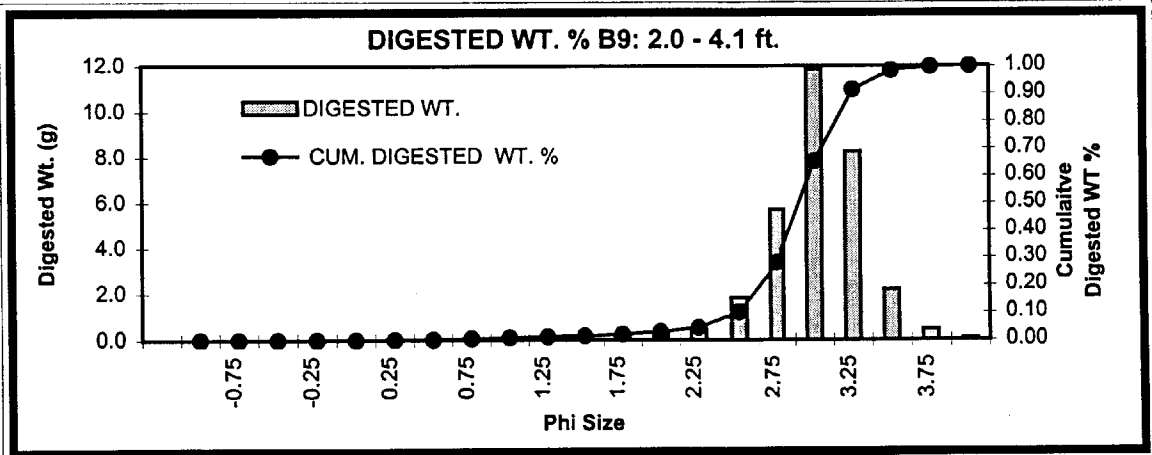


AFTER DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B9: 2.0 - 4.1 ft.

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.6177	0	0.6177	0	0	0
-0.75	0.1097	0	0.1097	0	0	0
-0.50	0.1516	0	0.1516	0	0	0
-0.25	0.1495	0.0027	0.1468	0.0027	0.000085084	0.000085084
0.00	0.1747	0.0125	0.1622	0.0152	0.000393905	0.000478989
0.25	0.1525	0.0268	0.1257	0.0420	0.000844533	0.001323522
0.50	0.1849	0.0486	0.1363	0.0906	0.001531505	0.002855027
0.75	0.1995	0.0867	0.1128	0.1773	0.002732129	0.005587156
1.00	0.2800	0.1089	0.1711	0.2862	0.003431705	0.009018860
1.25	0.2378	0.1165	0.1213	0.4027	0.003671199	0.012690059
1.50	0.2211	0.0922	0.1289	0.4949	0.002905447	0.015595506
1.75	0.4165	0.1751	0.2414	0.6700	0.005517828	0.021113334
2.00	0.5919	0.2439	0.3480	0.9139	0.007685884	0.028799218
2.25	0.9345	0.4504	0.4841	1.3643	0.014193203	0.042992421
2.50	2.4366	1.8291	0.6075	3.1934	0.057639403	0.100631824
2.75	6.6641	5.6992	0.9649	8.8926	0.179595695	0.280227520
3.00	13.1725	11.8405	1.3320	20.7331	0.373123040	0.653350560
3.25	8.8404	8.2731	0.5673	29.0062	0.260705564	0.914056124
3.50	2.3835	2.1982	0.1853	31.2044	0.069270645	0.983326768
3.75	0.5467	0.4615	0.0852	31.6659	0.014542991	0.997869759
4.00	0.0915	0.0676	0.0239	31.7335	0.002130241	1

TOTAL WT. 38.5572 grams
DIGESTED WT. 31.7335 grams
% SILICA 82.3024

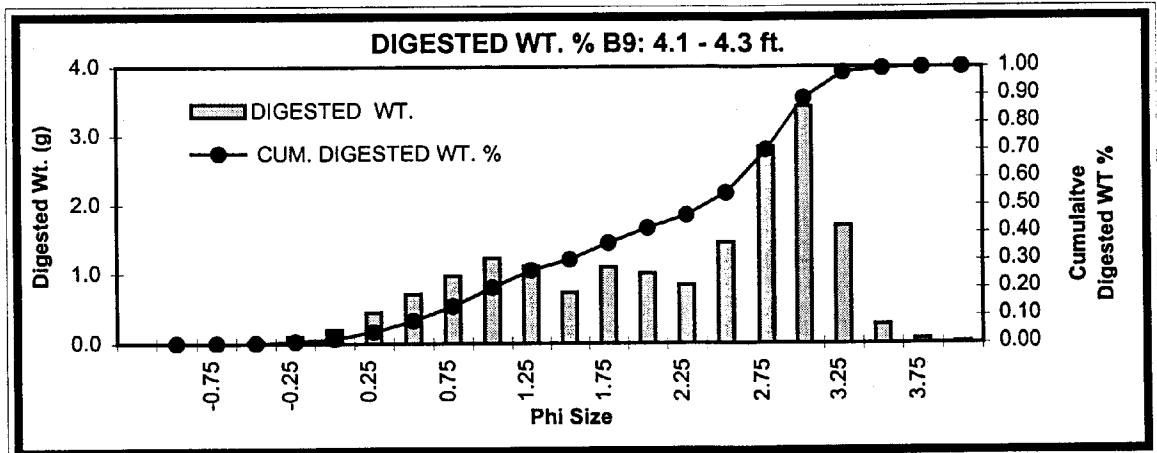


AFTER DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B9: 4.1 - 4.3 ft.

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	5.0081	0	5.0081	0	0	0
-0.75	0.8084	0	0.8084	0	0	0
-0.50	0.9771	0.0213	0.9558	0.0213	0.001167008	0.001167008
-0.25	1.2536	0.1037	1.1499	0.1250	0.005681631	0.006848640
0.00	1.3285	0.1933	1.1352	0.3183	0.010590736	0.017439376
0.25	1.4520	0.4476	1.0044	0.7659	0.024523609	0.041962984
0.50	1.5683	0.7134	0.8549	1.4793	0.039086556	0.081049540
0.75	1.6443	0.9662	0.6781	2.4455	0.052937245	0.133986785
1.00	1.9282	1.2299	0.6983	3.6754	0.067385135	0.201371919
1.25	1.5538	1.1129	0.4409	4.7883	0.060974808	0.262346727
1.50	1.0477	0.7301	0.3176	5.5184	0.040001534	0.302348262
1.75	1.4282	1.0999	0.3283	6.6183	0.060262549	0.362610811
2.00	1.2764	1.0035	0.2729	7.6218	0.054980879	0.417591690
2.25	1.1689	0.8463	0.3226	8.4681	0.046368029	0.463959719
2.50	1.7808	1.4616	0.3192	9.9297	0.080079773	0.544039492
2.75	3.2865	2.8418	0.4447	12.7715	0.155699712	0.699739204
3.00	3.8662	3.4262	0.4400	16.1977	0.187718472	0.887457675
3.25	1.7930	1.6964	0.0966	17.8941	0.092944258	0.980401933
3.50	0.2987	0.2760	0.0227	18.1701	0.015121796	0.995523729
3.75	0.0743	0.0635	0.0108	18.2336	0.003479109	0.999002838
4.00	0.0237	0.0182	0.0055	18.2518	0.000997162	1

TOTAL WT. 33.5667 grams
DIGESTED WT. 18.2518 grams
% SILICA 54.3747

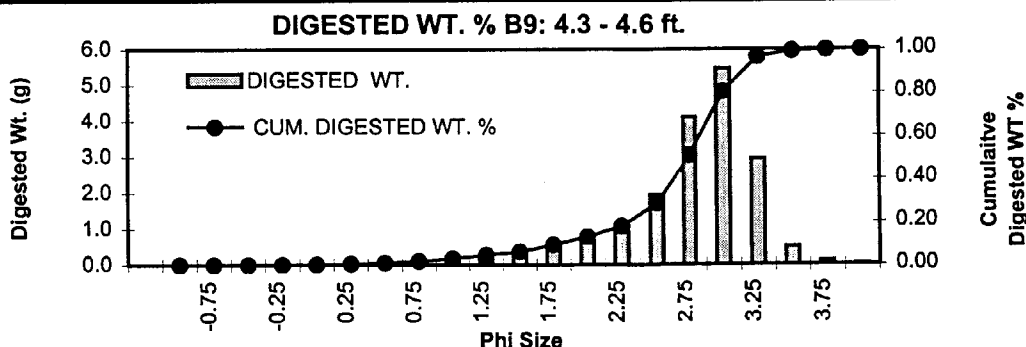


AFTER DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B9: 4.3 - 4.6 ft.

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.7646	0	0.7646	0	0	0
-0.75	0.1945	0	0.1945	0	0	0
-0.50	0.1740	0	0.1740	0	0	0
-0.25	0.2390	0	0.2390	0	0	0
0.00	0.2344	0.0193	0.2151	0.0193	0.001049820	0.001049820
0.25	0.2354	0.0521	0.1833	0.0714	0.002833971	0.003883791
0.50	0.3046	0.0900	0.2146	0.1614	0.004895535	0.008779326
0.75	0.3280	0.1382	0.1898	0.2996	0.007517366	0.016296691
1.00	0.4560	0.2292	0.2268	0.5288	0.012467295	0.028763986
1.25	0.5203	0.2896	0.2307	0.8184	0.015752743	0.044516729
1.50	0.4656	0.2795	0.1861	1.0979	0.015203355	0.059720084
1.75	0.8912	0.5926	0.2986	1.6905	0.032234376	0.091954461
2.00	1.0409	0.6922	0.3487	2.3827	0.037652102	0.129606562
2.25	1.5873	0.8985	0.6888	3.2812	0.048873755	0.178480317
2.50	2.4529	1.9438	0.5091	5.2250	0.105732671	0.284212988
2.75	4.7959	4.1082	0.6877	9.3332	0.223464842	0.507677830
3.00	6.0861	5.4653	0.6208	14.7985	0.297284066	0.804961896
3.25	3.1908	2.9547	0.2361	17.7532	0.160720405	0.965682302
3.50	0.5568	0.4998	0.0570	18.2530	0.027186536	0.992868838
3.75	0.1242	0.1071	0.0171	18.3601	0.005825686	0.998694524
4.00	0.0329	0.0240	0.0089	18.3841	0.001305476	1

TOTAL WT. 24.6754 grams
DIGESTED WT. 18.3841 grams
% SILICA 74.5038

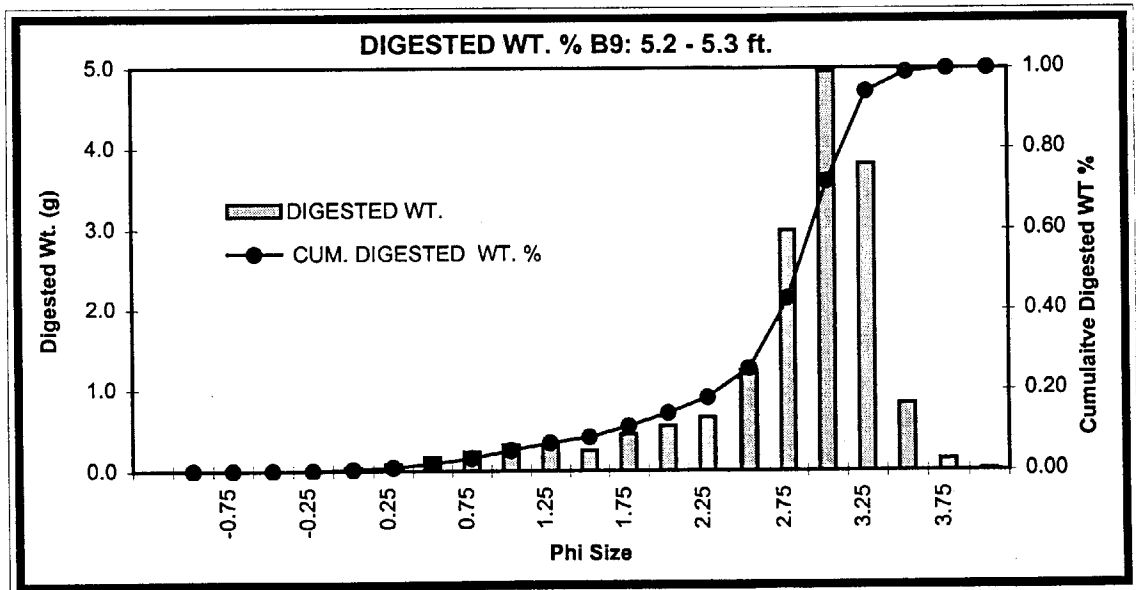


AFTER DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B9: 5.2 - 5.3 ft.

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.3869	0	0.3869	0	0	0
-0.75	0.1434	0	0.1434	0	0	0
-0.50	0.1995	0	0.1995	0	0	0
-0.25	0.2004	0.0050	0.1954	0.0050	0.000293049	0.000293049
0.00	0.2349	0.0453	0.1896	0.0503	0.002655023	0.002948072
0.25	0.3298	0.0835	0.2463	0.1338	0.004893916	0.007841988
0.50	0.3775	0.1712	0.2063	0.3050	0.010033994	0.017875982
0.75	0.4493	0.2321	0.2172	0.5371	0.013603329	0.031479311
1.00	0.5364	0.3218	0.2146	0.8589	0.018860626	0.050339937
1.25	0.4655	0.3145	0.1510	1.1734	0.018432775	0.068772711
1.50	0.3584	0.2505	0.1079	1.4239	0.014681749	0.083454460
1.75	0.5937	0.4563	0.1374	1.8802	0.026743641	0.110198101
2.00	0.7195	0.5515	0.1680	2.4317	0.032323292	0.142521393
2.25	0.8460	0.6576	0.1884	3.0893	0.038541789	0.181063181
2.50	1.4427	1.2402	0.2025	4.3295	0.072687844	0.253751026
2.75	3.2490	2.9863	0.2627	7.3158	0.175026374	0.428777400
3.00	5.4705	4.9509	0.5196	12.2667	0.290171141	0.718948541
3.25	3.9808	3.8083	0.1725	16.0750	0.223203610	0.942152151
3.50	0.8892	0.8282	0.0610	16.9032	0.048540617	0.990692768
3.75	0.1570	0.1413	0.0157	17.0445	0.008281561	0.998974329
4.00	0.0204	0.0175	0.0029	17.0620	0.001025671	1

TOTAL WT. 21.0508 grams
DIGESTED WT. 17.0620 grams
% SILICA 81.0516

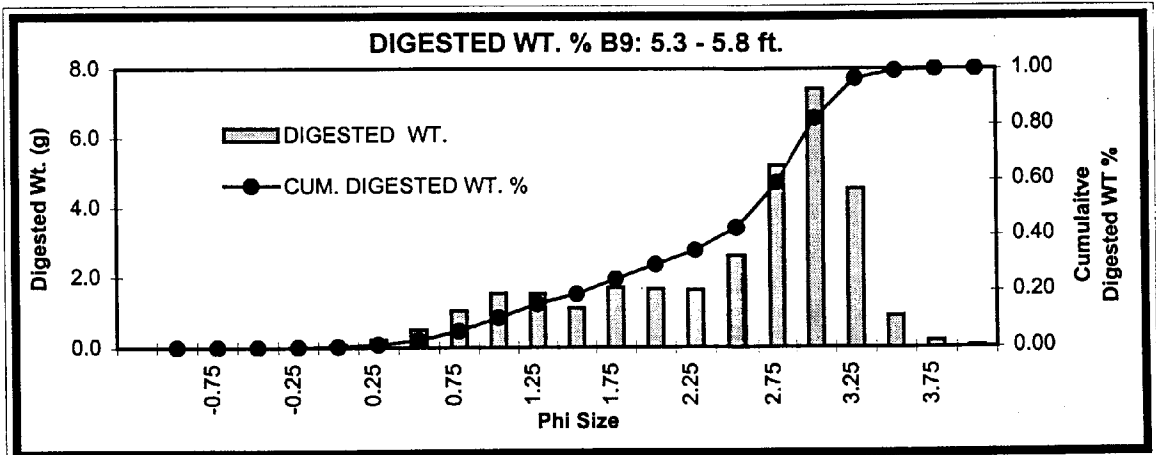


AFTER DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B9: 5.3 - 5.8 ft.

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	1.0521	0	1.0521	0	0	0
-0.75	0.1733	0	0.1733	0	0	0
-0.50	0.3039	0	0.3039	0	0	0
-0.25	0.4631	0.0194	0.4437	0.0194	0.000607374	0.000607374
0.00	0.5406	0.0762	0.4644	0.0956	0.002385663	0.002993037
0.25	0.8261	0.2223	0.6038	0.3179	0.006959751	0.009952788
0.50	1.1760	0.5117	0.6643	0.8296	0.016020262	0.025973050
0.75	1.6937	1.0440	0.6497	1.8736	0.032685468	0.058658518
1.00	2.3571	1.5325	0.8246	3.4061	0.047979387	0.106637905
1.25	2.2750	1.5235	0.7515	4.9296	0.047697616	0.154335521
1.50	1.5637	1.1127	0.4510	6.0423	0.034836322	0.189171843
1.75	2.3256	1.7028	0.6228	7.7451	0.053311126	0.242482968
2.00	2.3769	1.6594	0.7175	9.4045	0.051952362	0.294435330
2.25	2.3879	1.6304	0.7575	11.0349	0.051044432	0.345479763
2.50	3.5746	2.6108	0.9638	13.6457	0.081738717	0.427218479
2.75	6.2385	5.2205	1.0180	18.8662	0.163442995	0.590661474
3.00	8.1028	7.4165	0.6863	26.2827	0.232195186	0.822856660
3.25	4.6804	4.5512	0.1292	30.8339	0.142488604	0.965345264
3.50	0.9444	0.9011	0.0433	31.7350	0.028211566	0.993556830
3.75	0.1945	0.1723	0.0222	31.9073	0.005394355	0.998951185
4.00	0.0554	0.0335	0.0219	31.9408	0.001048815	1

TOTAL WT. 43.3056 grams
DIGESTED WT. 31.9408 grams
% SILICA 73.7567

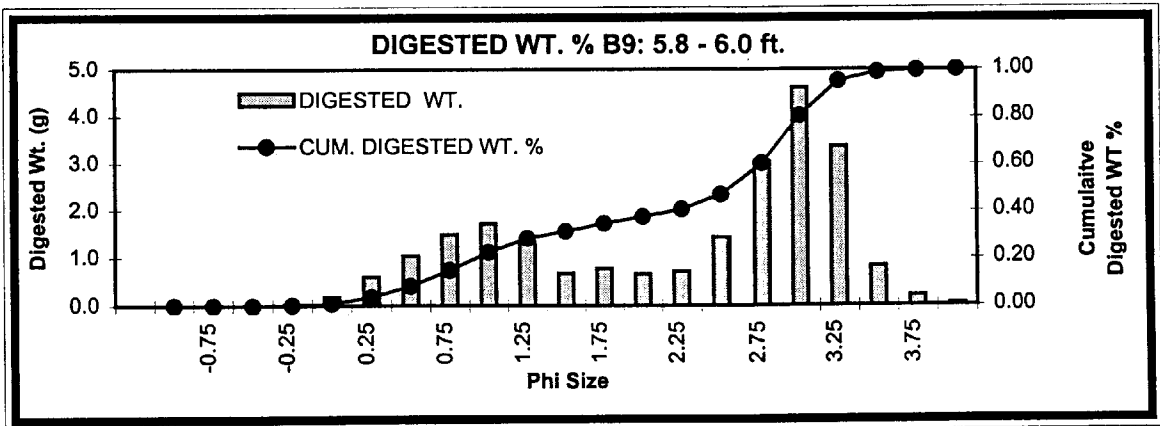


AFTER DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B9: 5.8 - 6.0 ft.

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	2.2339	0	2.2339	0	0	0
-0.75	0.3745	0.0091	0.3654	0.0091	0.000399212	0.000399212
-0.50	0.6082	0.0053	0.6029	0.0144	0.000232508	0.000631721
-0.25	0.8587	0.0355	0.8232	0.0499	0.001557367	0.002189087
0.00	1.1283	0.1800	0.9483	0.2299	0.007896507	0.010085594
0.25	1.7673	0.6059	1.1614	0.8358	0.026580519	0.036666112
0.50	2.0263	1.0435	0.9828	1.8793	0.045777804	0.082443916
0.75	2.3812	1.5003	0.8809	3.3796	0.065816944	0.148260860
1.00	2.6910	1.7302	0.9608	5.1098	0.075902977	0.224163837
1.25	2.0665	1.3347	0.7318	6.4445	0.058552597	0.282716433
1.50	0.9756	0.6723	0.3033	7.1168	0.029493452	0.312209886
1.75	1.1880	0.7672	0.4208	7.8840	0.033656666	0.345866552
2.00	1.0431	0.6620	0.3811	8.5460	0.029041597	0.374908148
2.25	1.1223	0.7104	0.4119	9.2564	0.031164879	0.406073028
2.50	1.8490	1.4288	0.4202	10.6852	0.062680715	0.468753743
2.75	3.5652	3.0479	0.5173	13.7331	0.133709792	0.602463535
3.00	5.0949	4.6141	0.4808	18.3472	0.202418174	0.804881708
3.25	3.6834	3.3640	0.3194	21.7112	0.147576935	0.952458643
3.50	0.9184	0.8232	0.0952	22.5344	0.036113357	0.988572000
3.75	0.2585	0.2139	0.0446	22.7483	0.009383682	0.997955682
4.00	0.0722	0.0466	0.0256	22.7949	0.002044318	1

TOTAL WT. 35.9065 grams
DIGESTED WT. 22.7949 grams
% SILICA 63.4840

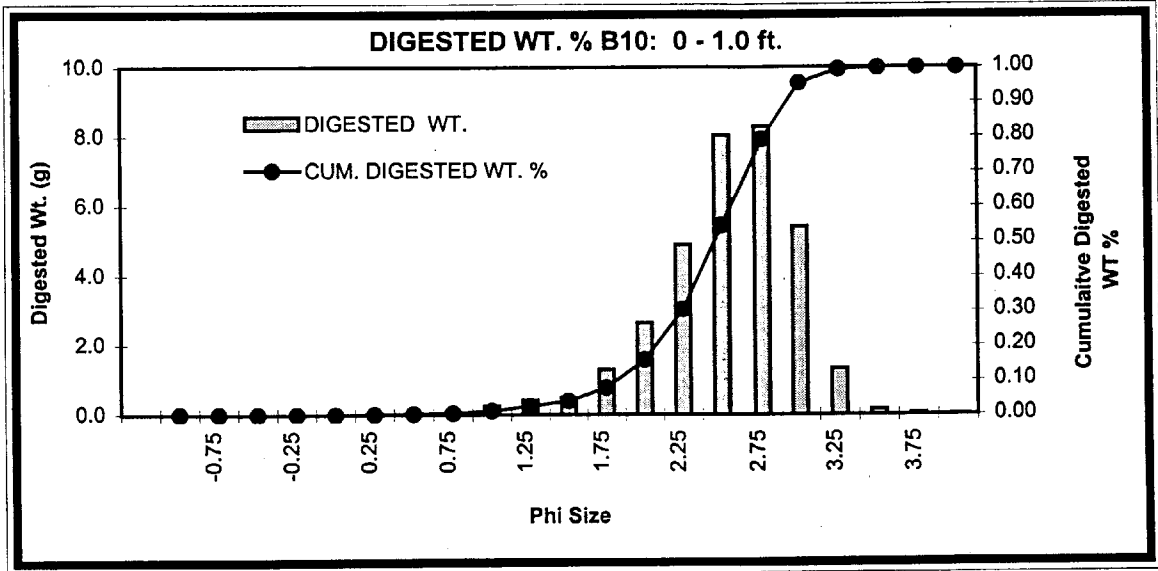


AFTER DIGESTION GRAIN SIZE DISTRIBUTION

CORE B10: 0 - 1.0 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0	0	0	0	0	0
-0.75	0	0	0	0	0	0
-0.50	0.0040	0	0.0040	0	0	0
-0.25	0.0010	0	0.0010	0	0	0
0.00	0.0332	0.0081	0.0251	0.0081	0.000242025	0.000242025
0.25	0.0443	0.0244	0.0199	0.0325	0.000729063	0.000971088
0.50	0.0824	0.0466	0.0358	0.0791	0.001392391	0.002363480
0.75	0.1506	0.0847	0.0659	0.1638	0.002530806	0.004894286
1.00	0.3383	0.2522	0.0861	0.4160	0.007535646	0.012429932
1.25	0.5806	0.4266	0.1540	0.8426	0.012746656	0.025176589
1.50	0.6851	0.4988	0.1863	1.3414	0.014903967	0.040080556
1.75	1.6344	1.3079	0.3265	2.6493	0.039079587	0.079160143
2.00	3.0415	2.6508	0.3907	5.3001	0.079204962	0.158365105
2.25	5.6807	4.8968	0.7839	10.1969	0.146314645	0.304679750
2.50	9.1351	8.0316	1.1035	18.2285	0.239981355	0.544661105
2.75	9.069	8.2765	0.7925	26.5050	0.247298880	0.791959985
3.00	5.6519	5.4203	0.2316	31.9253	0.161956639	0.953916624
3.25	1.4352	1.3357	0.0995	33.2610	0.039910242	0.993826865
3.50	0.1746	0.1477	0.0269	33.4087	0.004413224	0.998240089
3.75	0.0492	0.0488	0.0004	33.4575	0.001458127	0.999698216
4	0.0122	0.0101	0.0021	33.4676	0.000301784	1

TOTAL WT. 37.8033 grams
 DIGESTED WT. 33.4676 grams
 % SILICA 88.5309

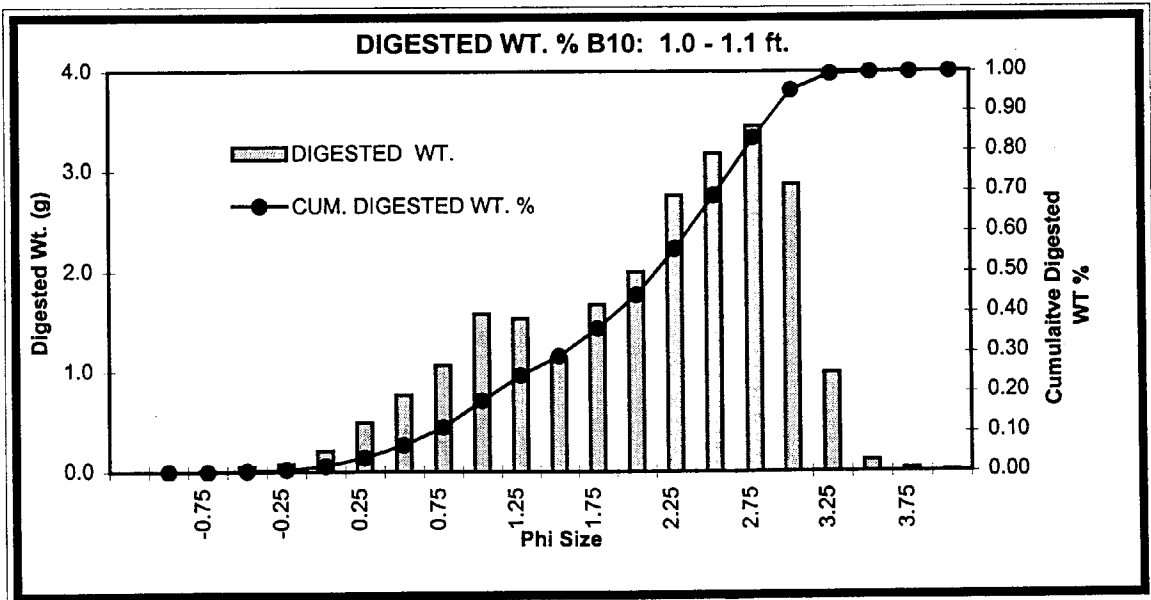


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B10: 1.0 -1.1 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	1.3994	0	1.3994	0	0	0
-0.75	0.8868	0.0088	0.8780	0.0088	0.000366461	0.000366461
-0.50	1.4310	0.0502	1.3808	0.0590	0.002090491	0.002456951
-0.25	1.4189	0.0763	1.3426	0.1353	0.003177379	0.005634331
0.00	1.2565	0.2110	1.0455	0.3463	0.008786724	0.014421055
0.25	1.4055	0.4953	0.9102	0.8416	0.020625898	0.035046953
0.50	1.4932	0.7695	0.7237	1.6111	0.032044475	0.067091428
0.75	1.6892	1.0683	0.6209	2.6794	0.044487476	0.111578904
1.00	2.1298	1.5832	0.5466	4.2626	0.065929581	0.177508485
1.25	2.0346	1.5341	0.5005	5.7967	0.063884898	0.241393383
1.50	1.4442	1.1457	0.2985	6.9424	0.047710663	0.289104046
1.75	2.0333	1.6732	0.3601	8.6156	0.069677473	0.358781519
2.00	2.3695	1.9995	0.3700	10.6151	0.083265663	0.442047182
2.25	3.1668	2.7523	0.4145	13.3674	0.114614696	0.556661878
2.50	3.7556	3.1720	0.5836	16.5394	0.132092365	0.688754242
2.75	3.9314	3.4509	0.4805	19.9903	0.143706665	0.832460907
3.00	3.0845	2.8681	0.2164	22.8584	0.119436983	0.951897891
3.25	1.0529	0.9969	0.0560	23.8553	0.041514148	0.993412039
3.50	0.1256	0.1132	0.0124	23.9685	0.004714015	0.998126054
3.75	0.0361	0.0331	0.0030	24.0016	0.001378391	0.999504445
4.00	0.0151	0.0119	0.0032	24.0135	0.000495555	1

TOTAL WT. 36.1599 grams
 DIGESTED WT. 24.0135 grams
 % SILICA 66.409199

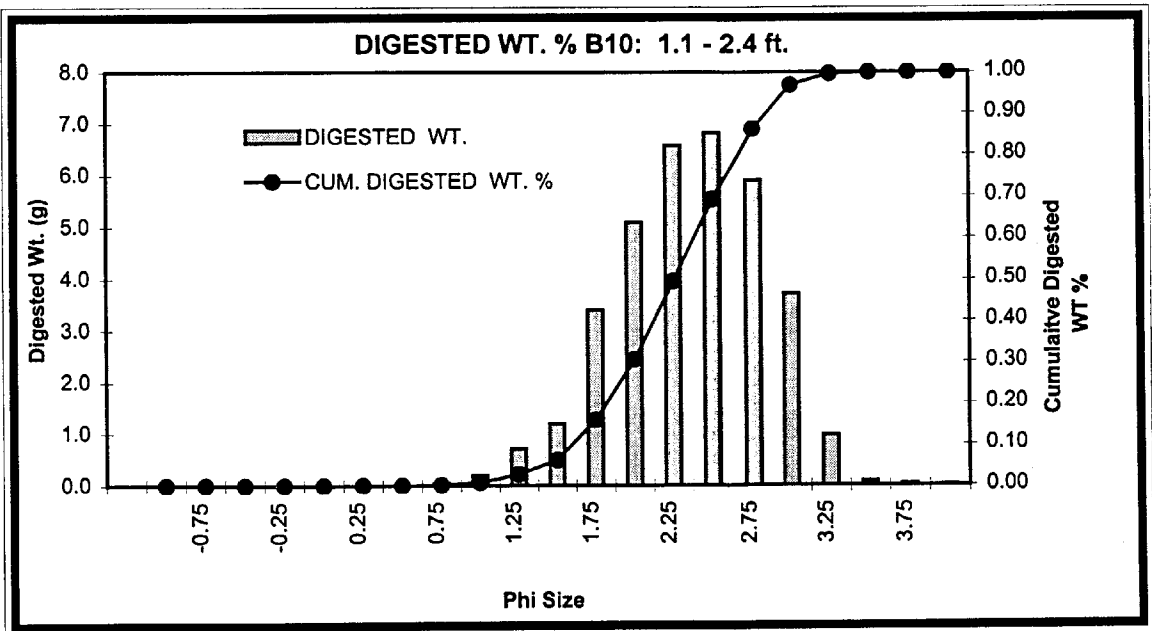


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B10: 1.1 - 2.4 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0	0	0	0	0	0
-0.75	0	0	0	0	0	0
-0.50	0.0138	0	0.0138	0	0	0
-0.25	0.0025	0	0.0025	0	0	0
0.00	0.0096	0	0.0096	0	0	0
0.25	0.0179	0.0010	0.0169	0.0010	0.000028790	0.000028790
0.50	0.0259	0.0004	0.0255	0.0014	0.000011516	0.000040306
0.75	0.0649	0.0411	0.0238	0.0425	0.001183258	0.001223564
1.00	0.2742	0.1945	0.0797	0.2370	0.005599604	0.006823168
1.25	0.8044	0.7011	0.1033	0.9381	0.020184485	0.027007652
1.50	1.4331	1.1941	0.2390	2.1322	0.034377825	0.061385477
1.75	3.8231	3.4077	0.4154	5.5399	0.098106787	0.159492264
2.00	5.6656	5.0772	0.5884	10.6171	0.146171253	0.305663517
2.25	7.5623	6.5754	0.9869	17.1925	0.189304037	0.494967554
2.50	7.9406	6.8154	1.1252	24.0079	0.196213574	0.691181128
2.75	6.5760	5.9105	0.6655	29.9184	0.170161741	0.861342868
3.00	3.9873	3.7161	0.2712	33.6345	0.106985542	0.968328410
3.25	1.0561	0.9729	0.0832	34.6074	0.028009535	0.996337945
3.50	0.0967	0.0875	0.0092	34.6949	0.002519102	0.998857047
3.75	0.0290	0.0290	0.0000	34.7239	0.000834902	0.999691950
4.00	0.0107	0.0107	0.0000	34.7346	0.000308050	1

TOTAL WT. 39.3937 grams
DIGESTED WT. 34.7346 grams
% SILICA 88.1730

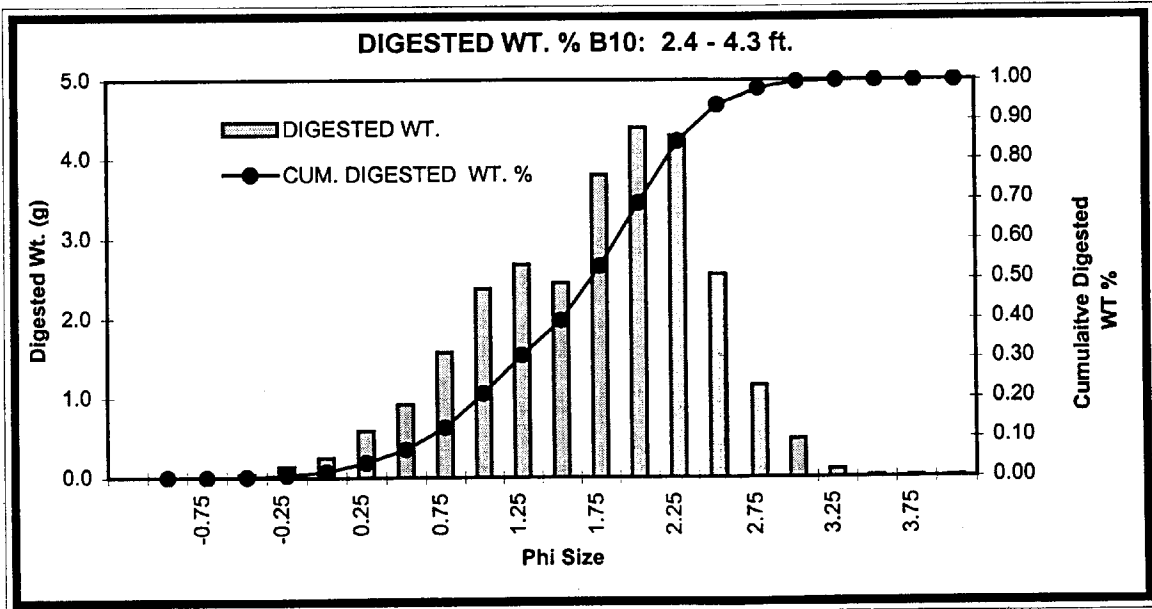


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B10: 2.4 - 4.3 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	8.0986	0	8.0986	0	0	0
-0.75	1.7527	0.0099	1.7428	0.0099	0.000355426	0.000355426
-0.50	1.8211	0.0407	1.7804	0.0506	0.001461196	0.001816622
-0.25	1.8166	0.1376	1.6790	0.1882	0.004940062	0.006756684
0.00	1.6689	0.2503	1.4186	0.4385	0.008986174	0.015742858
0.25	1.7703	0.5911	1.1792	1.0296	0.021221445	0.036964303
0.50	1.9437	0.9238	1.0199	1.9534	0.033165912	0.070130215
0.75	2.4704	1.5729	0.8975	3.5263	0.056469651	0.126599866
1.00	3.2281	2.3800	0.8481	5.9063	0.085445844	0.212045710
1.25	3.5365	2.6783	0.8582	8.5846	0.096155296	0.308201006
1.50	2.8982	2.4508	0.4474	11.0354	0.087987679	0.396188685
1.75	4.5675	3.8042	0.7633	14.8396	0.136576925	0.532765609
2.00	4.9882	4.3912	0.5970	19.2308	0.157651173	0.690416782
2.25	4.8815	4.2921	0.5894	23.5229	0.154093323	0.844510105
2.50	2.9306	2.5549	0.3757	26.0778	0.091725037	0.936235141
2.75	1.3153	1.1575	0.1578	27.2353	0.041556120	0.977791261
3.00	0.4966	0.4780	0.0186	27.7133	0.017160972	0.994952233
3.25	0.1087	0.0986	0.0101	27.8119	0.003539899	0.998492132
3.50	0.0148	0.0148	0.0000	27.8267	0.000531344	0.999023476
3.75	0.0175	0.0154	0.0021	27.8421	0.000552885	0.999576361
4.00	0.0118	0.0118	0	27.8539	0.000423639	1

TOTAL WT. 50.3376 grams
DIGESTED WT. 27.8539 grams
% SILICA 55.3342

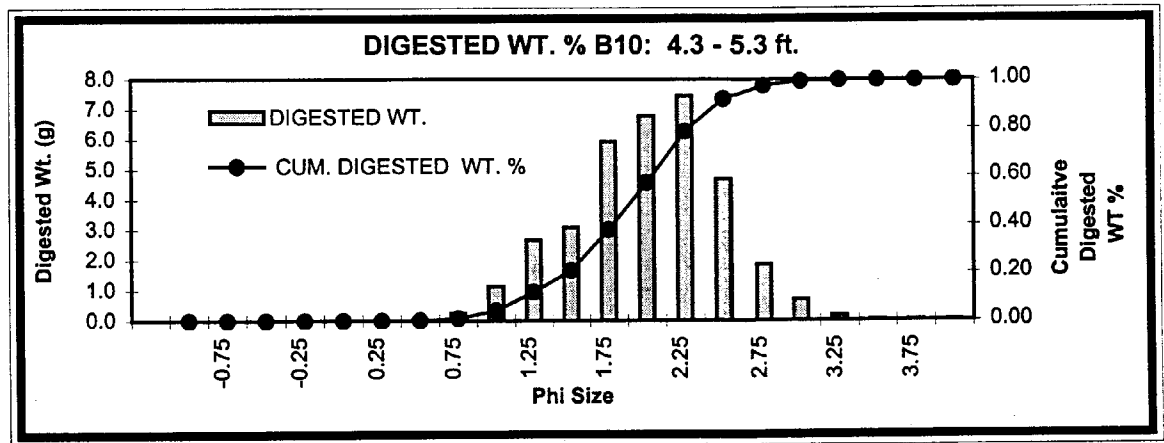


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B10: 4.3 - 5.3 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0	0	0	0	0	0
-0.75	0	0	0	0	0	0
-0.50	0.0178	0	0.0178	0	0	0
-0.25	0.0376	0	0.0376	0	0	0
0.00	0.0498	0.0020	0.0478	0.0020	0.000057403	0.000057403
0.25	0.0967	0.0101	0.0866	0.0121	0.000289886	0.000347289
0.50	0.1934	0.0444	0.1490	0.0565	0.001274350	0.001621639
0.75	0.4966	0.2567	0.2399	0.3132	0.007367693	0.008989332
1.00	1.6439	1.1252	0.5187	1.4384	0.032295006	0.041284338
1.25	2.9417	2.6692	0.2725	4.1076	0.076610230	0.117894568
1.50	3.5822	3.0854	0.4968	7.1930	0.088555823	0.206450391
1.75	6.5020	5.9189	0.5831	13.1119	0.169881721	0.376332112
2.00	7.6060	6.7842	0.8218	19.8961	0.194717189	0.571049301
2.25	8.2220	7.4419	0.7801	27.3380	0.213594211	0.784643512
2.50	5.3112	4.6945	0.6167	32.0325	0.134739519	0.919383031
2.75	2.1554	1.8649	0.2905	33.8974	0.053525557	0.972908588
3.00	0.7682	0.6795	0.0887	34.5769	0.019502717	0.992411305
3.25	0.1977	0.1563	0.0414	34.7332	0.004486055	0.996897360
3.50	0.0521	0.0419	0.0102	34.7751	0.001202596	0.998099956
3.75	0.0510	0.0387	0.0123	34.8138	0.001110751	0.999210707
4.00	0.0391	0.0275	0.0116	34.8413	0.000789293	1

TOTAL WT.	39.9644	grams
DIGESTED WT.	34.8413	grams
% SILICA	87.1808	

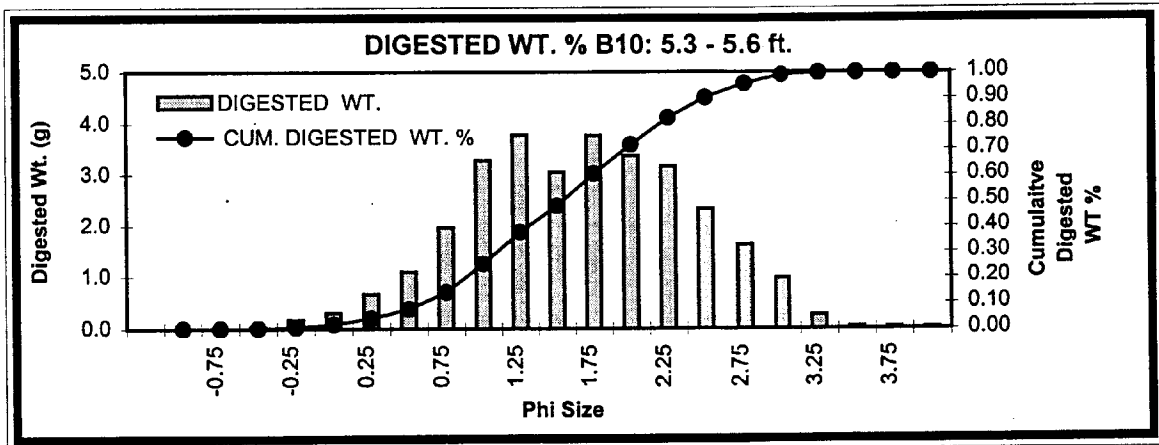


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B10: 5.3 5.6 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	4.8943	0	4.8943	0	0	0
-0.75	1.4978	0.0079	1.4899	0.0079	0.000263528	0.000263528
-0.50	1.7710	0.0313	1.7397	0.0392	0.001044106	0.001307634
-0.25	1.7474	0.1673	1.5801	0.2065	0.005580796	0.006888431
0.00	1.6154	0.3097	1.3057	0.5162	0.010330978	0.017219409
0.25	2.0055	0.6730	1.3325	1.1892	0.022449946	0.039669355
0.50	2.2344	1.1044	1.1300	2.2936	0.036840595	0.076509951
0.75	2.9314	1.9651	0.9663	4.2587	0.065551842	0.142061792
1.00	4.3570	3.2842	1.0728	7.5429	0.109554404	0.251616196
1.25	4.9032	3.7785	1.1247	11.3214	0.126043272	0.377659468
1.50	3.7278	3.0574	0.6704	14.3788	0.101988805	0.479648273
1.75	4.4665	3.7631	0.7034	18.1419	0.125529559	0.605177832
2.00	3.9033	3.3704	0.5329	21.5123	0.112429865	0.717607696
2.25	3.5863	3.1628	0.4235	24.6751	0.105504740	0.823112437
2.50	2.7674	2.3348	0.4326	27.0099	0.077884301	0.900996738
2.75	1.8883	1.6349	0.2534	28.6448	0.054537024	0.955533762
3.00	1.0780	0.9852	0.0928	29.6300	0.032864320	0.988398081
3.25	0.3109	0.2602	0.0507	29.8902	0.008679756	0.997077838
3.50	0.0488	0.0392	0.0096	29.9294	0.001307634	0.998385472
3.75	0.0371	0.0312	0.0059	29.9606	0.001040770	0.999426242
4.00	0.0217	0.0172	0.0045	29.9778	0.000573758	1

TOTAL WT. 49.7935 grams
 DIGESTED WT. 29.9778 grams
 % SILICA 60.2042

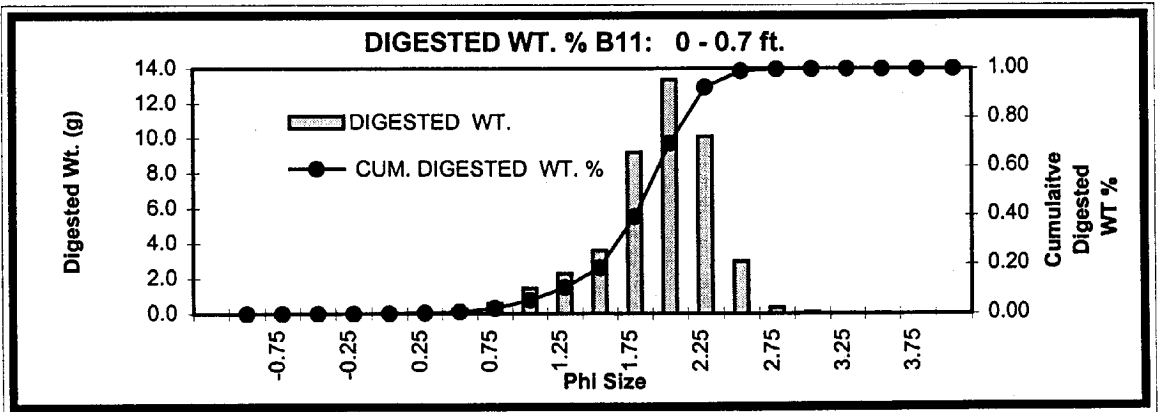


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B11: 0 - 0.7 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.1000	0	0.1000	0	0	0
-0.75	0.0210	0	0.0210	0	0	0
-0.50	0.0760	0.0170	0.0590	0.0170	0.000382857	0.000382857
-0.25	0.1360	0.0080	0.1280	0.0250	0.000180168	0.000563025
0.00	0.1970	0.0370	0.1600	0.0620	0.000833277	0.001396302
0.25	0.3400	0.1010	0.2390	0.1630	0.002274621	0.003670923
0.50	0.4790	0.2490	0.2300	0.4120	0.005607729	0.009278652
0.75	0.8660	0.5940	0.2720	1.0060	0.013377474	0.022656127
1.00	1.6570	1.4510	0.2060	2.4570	0.032677972	0.055334099
1.25	3.0870	2.2910	0.7960	4.7480	0.051595613	0.106929712
1.50	4.0090	3.5880	0.4210	8.3360	0.080805351	0.187735063
1.75	9.2760	9.1910	0.0850	17.5270	0.206990519	0.394725582
2.00	13.3610	13.3610	0.0000	30.8880	0.300903092	0.695628674
2.25	13.2010	10.1210	3.0800	41.0090	0.227935049	0.923563723
2.50	4.9670	2.9500	2.0170	43.9590	0.066436952	0.990000676
2.75	0.5590	0.3220	0.2370	44.2810	0.007251762	0.997252438
3.00	0.0880	0.0700	0.0180	44.3510	0.001576470	0.998828908
3.25	0.0360	0.0270	0.0090	44.3780	0.000608067	0.999436975
3.50	0.0210	0.0120	0.0090	44.3900	0.000270252	0.999707227
3.75	0.0180	0.0070	0.0110	44.3970	0.000157647	0.999864874
4.00	0.0160	0.0060	0.0100	44.4030	0.000135126	1

TOTAL WT. 52.5110 grams
 DIGESTED WT. 44.4030 grams
 % SILICA 84.5594

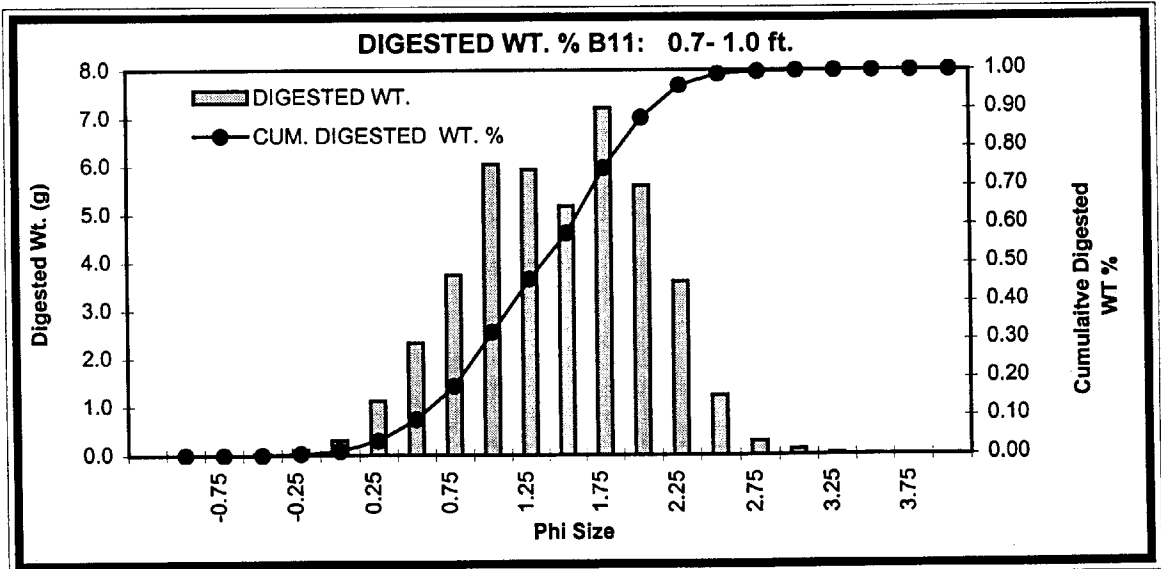


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B11: 0.7 - 1.0 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.5674	0	0.5674	0	0	0
-0.75	0.5750	0.0090	0.5660	0.0090	0.000209468	0.000209468
-0.50	1.0070	0.0410	0.9660	0.0500	0.000954243	0.001163711
-0.25	1.4370	0.1190	1.3180	0.1690	0.002769632	0.003933343
0.00	1.7820	0.3100	1.4720	0.4790	0.007215007	0.011148350
0.25	2.9590	1.1250	1.8340	1.6040	0.026183494	0.037331844
0.50	4.0570	2.3370	1.7200	3.9410	0.054391845	0.091723688
0.75	5.2940	3.7380	1.5560	7.6790	0.086999022	0.178722711
1.00	7.6040	6.0370	1.5670	13.7160	0.140506447	0.319229158
1.25	7.6290	5.9340	1.6950	19.6500	0.138109203	0.457338361
1.50	5.8410	5.1790	0.6620	24.8290	0.120537169	0.577875529
1.75	7.7770	7.2090	0.5680	32.0380	0.167783829	0.745659359
2.00	6.1120	5.6080	0.5040	37.6460	0.130521808	0.876181167
2.25	4.4330	3.6100	0.8230	41.2560	0.084019923	0.960201089
2.50	1.8140	1.2300	0.5840	42.4860	0.028627287	0.988828376
2.75	0.4090	0.2860	0.1230	42.7720	0.006656426	0.995484802
3.00	0.1230	0.1230	0	42.8950	0.002862729	0.998347531
3.25	0.0430	0.0430	0	42.9380	0.001000791	0.999348322
3.50	0.0130	0.0130	0	42.9510	0.000302565	0.999650887
3.75	0.0090	0.0090	0	42.9600	0.000209468	0.999860355
4.00	0.0060	0.0060	0	42.9660	0.000139645	1

TOTAL WT. 59.4914 grams
 DIGESTED WT. 42.9660 grams
 % SILICA 72.2222

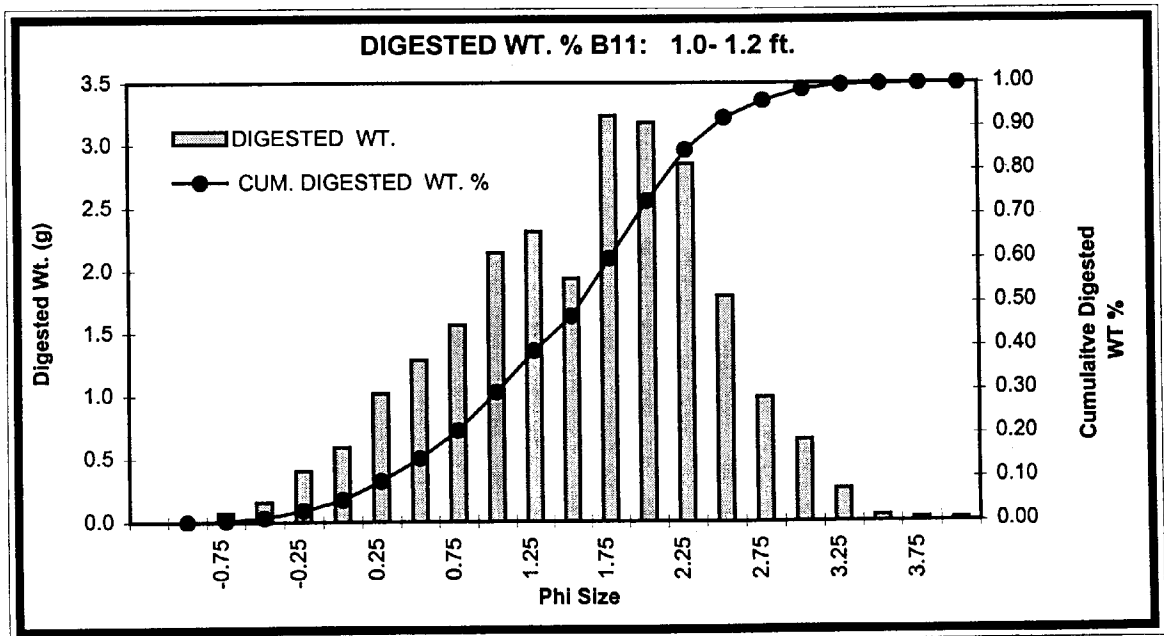


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B11: 1.0 - 1.2 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	4.4770	0	4.4770	0	0	0
-0.75	2.8590	0.0730	2.7860	0.0730	0.002972434	0.002972434
-0.50	3.4460	0.1590	3.2870	0.2320	0.006474205	0.009446639
-0.25	3.6110	0.4020	3.2090	0.6340	0.016368745	0.025815383
0.00	2.9190	0.5940	2.3250	1.2280	0.024186653	0.050002036
0.25	3.1190	1.0200	2.0990	2.2480	0.041532636	0.091534672
0.50	2.7390	1.2880	1.4510	3.5360	0.052445132	0.143979804
0.75	2.8060	1.5680	1.2380	5.1040	0.063846248	0.207826052
1.00	3.2590	2.1420	1.1170	7.2460	0.087218535	0.295044587
1.25	3.2770	2.3130	0.9640	9.5590	0.094181359	0.389225946
1.50	2.5500	1.9430	0.6070	11.5020	0.079115599	0.468341545
1.75	3.7480	3.2320	0.5160	14.7340	0.131601450	0.599942994
2.00	3.5970	3.1760	0.4210	17.9100	0.129321226	0.729264221
2.25	3.3410	2.8490	0.4920	20.7590	0.116006352	0.845270573
2.50	2.2700	1.8000	0.4700	22.5590	0.073292887	0.918563459
2.75	1.2360	0.9910	0.2450	23.5500	0.040351806	0.958915265
3.00	0.7410	0.6520	0.0890	24.2020	0.026548312	0.985463578
3.25	0.3080	0.2560	0.0520	24.4580	0.010423877	0.995887455
3.50	0.0600	0.0500	0.0100	24.5080	0.002035914	0.997923368
3.75	0.0420	0.0290	0.0130	24.5370	0.001180830	0.999104198
4.00	0.0240	0.0220	0.0020	24.5590	0.000895802	1

TOTAL WT. 50.4290 grams
DIGESTED WT. 24.5590 grams
% SILICA 48.7002



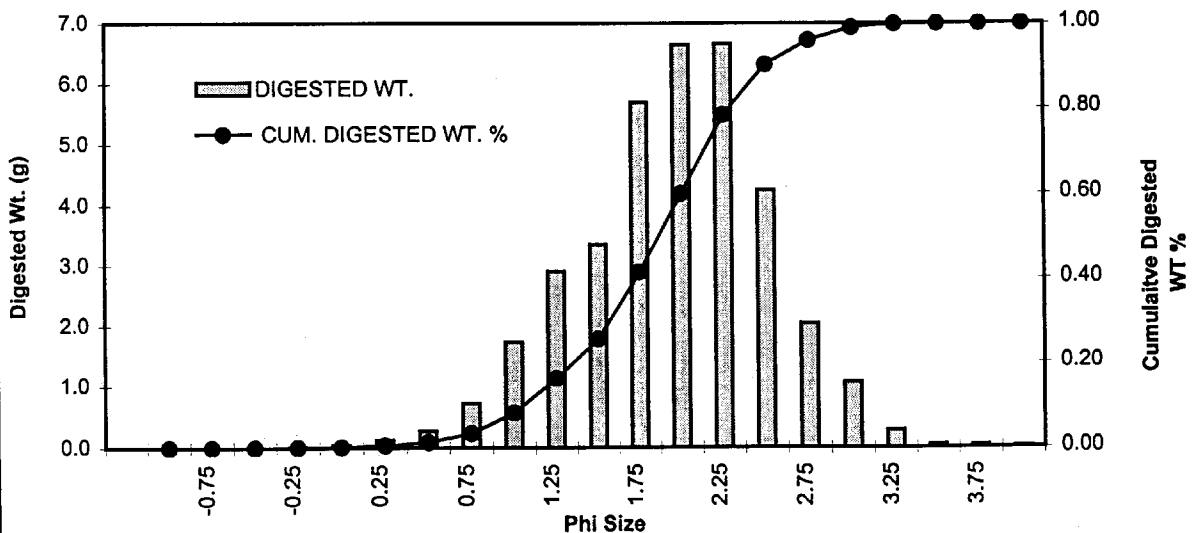
POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B11: 1.2 - 1.5 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT. WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.1890	0	0.1890	0	0	0
-0.75	0.0680	0	0.0680	0	0	0
-0.50	0.2010	0	0.2010	0	0	0
-0.25	0.2670	0.0180	0.2490	0.0180	0.000500765	0.000500765
0.00	0.2970	0.0480	0.2490	0.0660	0.001335373	0.001836139
0.25	0.5180	0.1280	0.3900	0.1940	0.003560996	0.005397135
0.50	0.7270	0.2720	0.4550	0.4660	0.007567116	0.012964251
0.75	1.2870	0.7290	0.5580	1.1950	0.020280985	0.033245236
1.00	2.6150	1.7400	0.8750	2.9350	0.048407289	0.081652525
1.25	3.6230	2.9140	0.7090	5.8490	0.081068299	0.162720823
1.50	3.7700	3.3550	0.4150	9.2040	0.093337043	0.256057866
1.75	6.9490	5.6910	1.2580	14.8950	0.158325219	0.414383085
2.00	7.6850	6.6420	1.0430	21.5370	0.184782306	0.599165392
2.25	7.8330	6.6530	1.1800	28.1900	0.185088329	0.784253721
2.50	5.3530	4.2540	1.0990	32.4440	0.118347475	0.902601196
2.75	2.5790	2.0570	0.5220	34.5010	0.057226318	0.959827514
3.00	1.3140	1.0730	0.2410	35.5740	0.029851161	0.989678676
3.25	0.4330	0.2810	0.1520	35.8550	0.007817499	0.997496175
3.50	0.0670	0.0430	0.0240	35.8980	0.001196272	0.998692447
3.75	0.0360	0.0320	0.0040	35.9300	0.000890249	0.999582696
4.00	0.0220	0.0150	0.0070	35.9450	0.000417304	1

TOTAL WT. 45.8330 grams
DIGESTED WT. 35.9450 grams
% SILICA 78.4260

DIGESTED WT. % B11: 1.2- 1.5 ft.

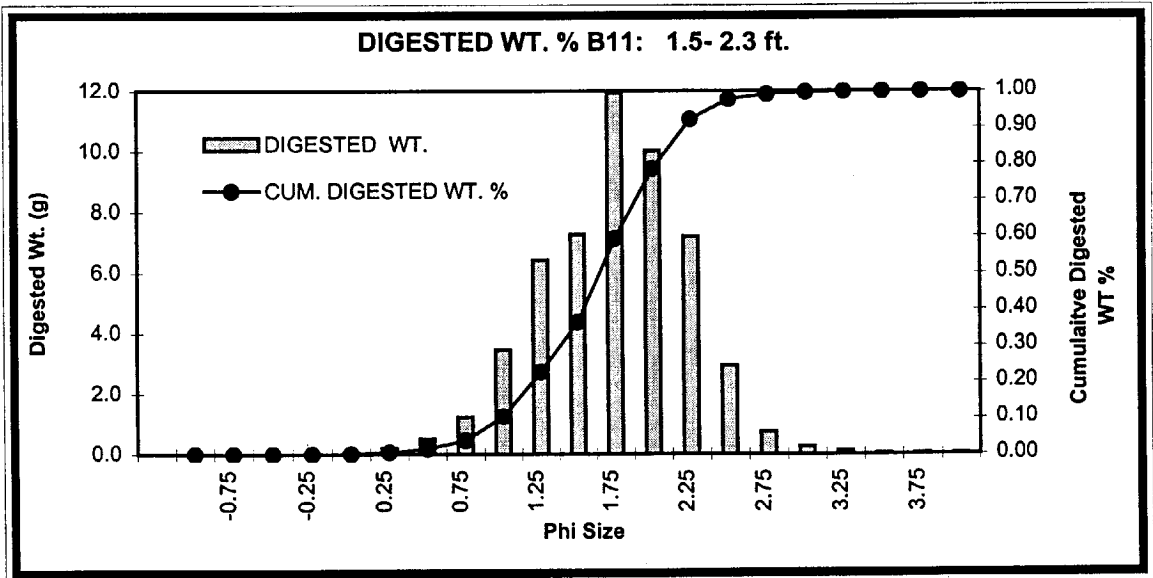


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B11: 1.5 - 2.3 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.3560	0	0.3560	0	0	0
-0.75	0.1930	0	0.1930	0	0	0
-0.50	0.2540	0	0.2540	0	0	0
-0.25	0.4550	0.0120	0.4430	0.0120	0.000229183	0.000229183
0.00	0.5000	0.0440	0.4560	0.0560	0.000840336	0.001069519
0.25	0.8330	0.2060	0.6270	0.2620	0.003934301	0.005003820
0.50	1.1430	0.5080	0.6350	0.7700	0.009702063	0.014705882
0.75	2.0180	1.2280	0.7900	1.9980	0.023453018	0.038158900
1.00	4.8440	3.4540	1.3900	5.4520	0.065966387	0.104125286
1.25	7.9430	6.4230	1.5200	11.8750	0.122669977	0.226795264
1.50	8.6060	7.2450	1.3610	19.1200	0.138368984	0.365164248
1.75	13.8650	11.9280	1.9370	31.0480	0.227807487	0.592971734
2.00	11.1970	10.0020	1.1950	41.0500	0.191023682	0.783995416
2.25	8.1990	7.1820	1.0170	48.2320	0.137165775	0.921161192
2.50	3.6200	2.9300	0.6900	51.1620	0.055958747	0.977119939
2.75	0.9410	0.7350	0.2060	51.8970	0.014037433	0.991157372
3.00	0.3030	0.2580	0.0450	52.1550	0.004927426	0.996084798
3.25	0.1210	0.1140	0.0070	52.2690	0.002177235	0.998262032
3.50	0.0470	0.0350	0.0120	52.3040	0.000668449	0.998930481
3.75	0.0480	0.0330	0.0150	52.3370	0.000630252	0.999560733
4.00	0.0350	0.0230	0.0120	52.3600	0.000439267	1

TOTAL WT. 65.5210 grams
DIGESTED WT. 52.3600 grams
SAMPLE % SILICA 79.9133

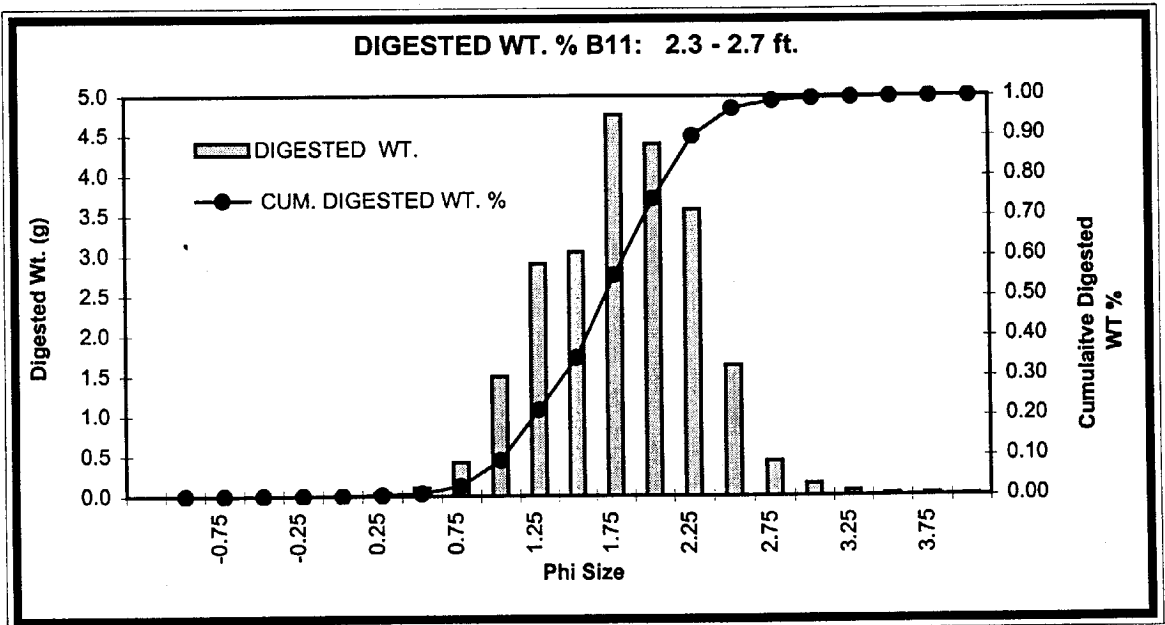


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B11: 2.3 - 2.7 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0	0	0	0	0	0
-0.75	0.0211	0	0.0211	0	0	0
-0.50	0.0280	0	0.028	0	0	0
-0.25	0.0668	0	0.0668	0	0	0
0.00	0.0869	0.0078	0.0791	0.0078	0.000337589	0.000337589
0.25	0.2139	0.0419	0.1720	0.0497	0.001813460	0.002151050
0.50	0.3423	0.1014	0.2409	0.1511	0.004388660	0.006539710
0.75	0.7127	0.4172	0.2955	0.5683	0.018056698	0.024596408
1.00	2.0418	1.4969	0.5449	2.0652	0.064786843	0.089383250
1.25	3.6427	2.9040	0.7387	4.9692	0.125687081	0.215070331
1.50	3.5218	3.0508	0.4710	8.0200	0.132040684	0.347111015
1.75	5.4337	4.7646	0.6691	12.7846	0.206215105	0.553326120
2.00	4.9497	4.3982	0.5515	17.1828	0.190357066	0.743683185
2.25	4.0927	3.5754	0.5173	20.7582	0.154745726	0.898428911
2.50	1.9598	1.6306	0.3292	22.3888	0.070573469	0.969002380
2.75	0.5012	0.4345	0.0667	22.8233	0.018805453	0.987807834
3.00	0.1486	0.1486	0	22.9719	0.006431508	0.994239342
3.25	0.0611	0.0611	0	23.0330	0.002644449	0.996883791
3.50	0.0293	0.0293	0	23.0623	0.001268124	0.998151915
3.75	0.0266	0.0266	0	23.0889	0.001151266	0.999303181
4.00	0.0161	0.0161	0	23.1050	0.000696819	1

TOTAL WT. 27.8968 grams
 DIGESTED WT. 23.1050 grams
 % SILICA 82.8231

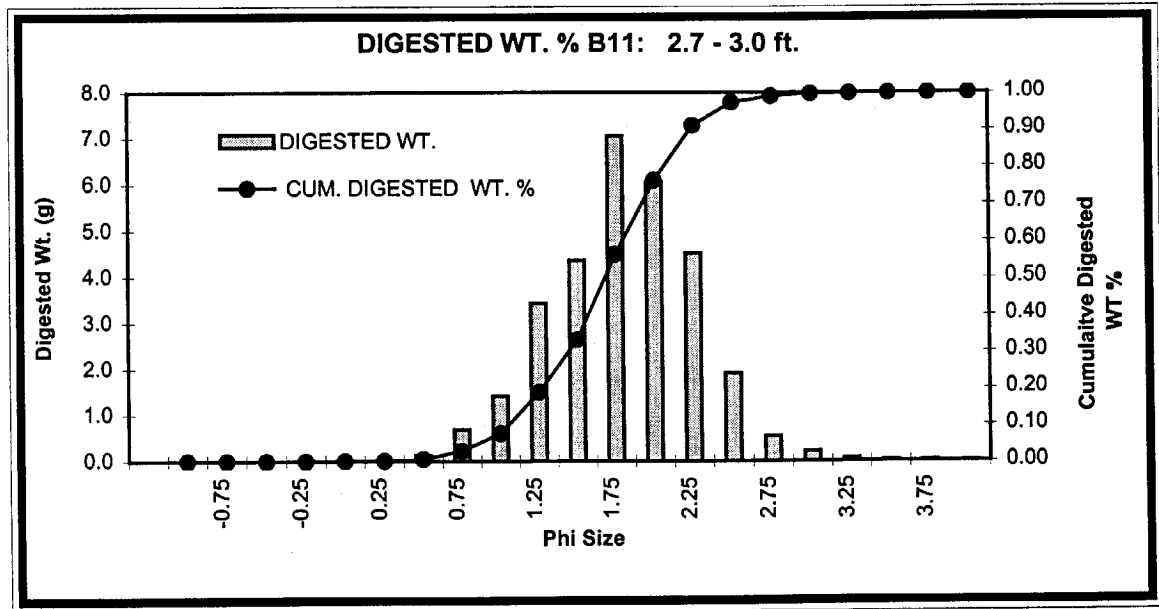


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B11: 2.7 - 3.0 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.1139	0	0.1139	0	0	0
-0.75	0.0947	0	0.0947	0	0	0
-0.50	0.1291	0	0.1291	0	0	0
-0.25	0.1100	0.0122	0.0978	0.0122	0.000399771	0.000399771
0.00	0.1842	0.0126	0.1716	0.0248	0.000412878	0.000812648
0.25	0.1961	0.0332	0.1629	0.0580	0.001087900	0.001900549
0.50	0.3360	0.1295	0.2065	0.1875	0.004243467	0.006144016
0.75	0.6998	0.6998	0	0.8873	0.022931105	0.029075121
1.00	1.9865	1.4204	0.6	2.3077	0.046543786	0.075618907
1.25	4.0347	3.4400	0.6	5.7477	0.112722209	0.188341116
1.50	5.0927	4.3772	0.7	10.1249	0.143432457	0.331773573
1.75	7.9819	7.0528	0.9	17.1777	0.231106742	0.562880315
2.00	6.7680	6.0461	0.7	23.2238	0.198119112	0.760999427
2.25	5.0937	4.5256	0.6	27.7494	0.148295240	0.909294667
2.50	2.3179	1.9041	0.4	29.6535	0.062393709	0.971688376
2.75	0.6500	0.5366	0.1	30.1901	0.017583354	0.989271729
3.00	0.2117	0.2107	0.0	30.4008	0.006904235	0.996175965
3.25	0.0668	0.0668	0	30.4676	0.002188908	0.998364873
3.50	0.0220	0.0220	0	30.4896	0.000720898	0.999085770
3.75	0.0179	0.0178	0.0001	30.5074	0.000583272	0.999669042
4.00	0.0118	0.0101	0.0017	30.5175	0.000330958	1

TOTAL WT.	36.1194	grams
DIGESTED WT.	30.5175	grams
% SILICA	84.4906	

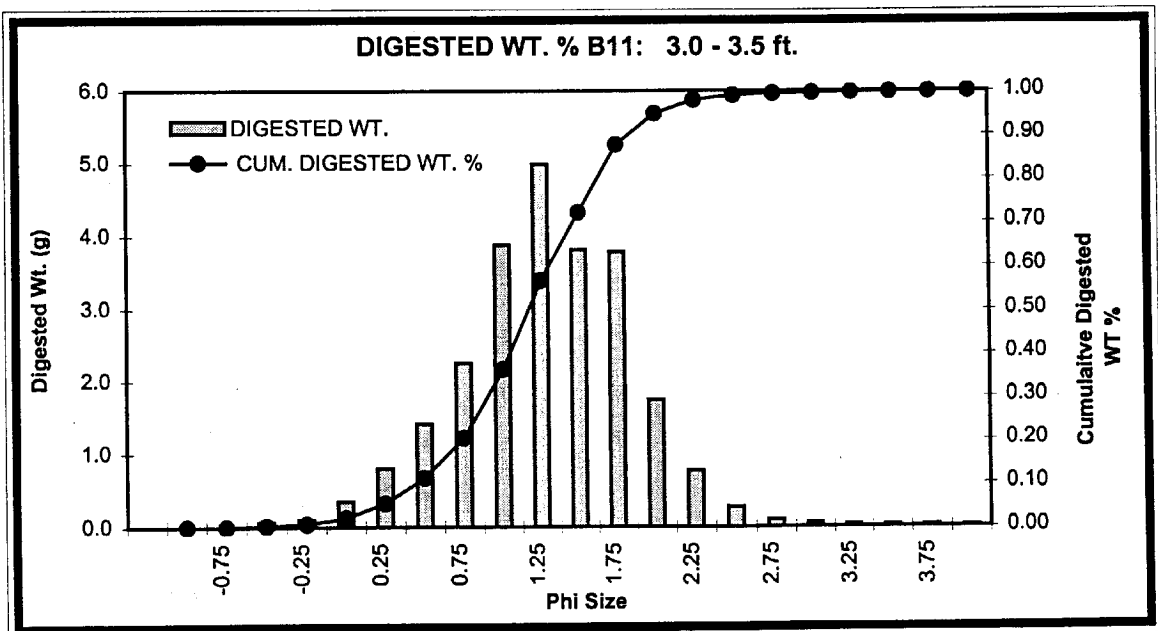


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B11: 3.0 - 3.5 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	19.1893	0	19.1893	0	0	0
-0.75	1.3733	0	1.3733	0	0	0
-0.50	1.3449	0.0644	1.2805	0.0644	0.002628207	0.002628207
-0.25	1.3978	0.1008	1.2970	0.1652	0.004113715	0.006741922
0.00	1.4443	0.3486	1.0957	0.5138	0.014226597	0.020968519
0.25	1.8438	0.7982	1.0456	1.3120	0.032575071	0.053543590
0.50	2.2173	1.4176	0.7997	2.7296	0.057853196	0.111396786
0.75	2.8650	2.2574	0.6076	4.9870	0.092125991	0.203522776
1.00	4.4627	3.8834	0.5793	8.8704	0.158484129	0.362006905
1.25	4.9913	4.9913	0	13.8617	0.203698262	0.565705167
1.50	3.8132	3.8132	0	17.6749	0.155619220	0.721324388
1.75	3.7858	3.7858	0	21.4607	0.154501008	0.875825396
2.00	1.7554	1.7554	0	23.2161	0.071639038	0.947464434
2.25	0.7665	0.7665	0	23.9826	0.031281373	0.978745807
2.50	0.2694	0.2694	0	24.2520	0.010994393	0.989740199
2.75	0.0981	0.0981	0	24.3501	0.004003526	0.993743725
3.00	0.0528	0.0528	0	24.4029	0.002154803	0.995898528
3.25	0.0368	0.0368	0	24.4397	0.001501832	0.997400361
3.50	0.0219	0.0219	0	24.4616	0.000893754	0.998294114
3.75	0.0244	0.0244	0	24.4860	0.000995780	0.999289894
4.00	0.0175	0.0174	0.0001	24.5034	0.000710106	1

TOTAL WT. 51.7715 grams
 DIGESTED WT. 24.5034 grams
 % SILICA 47.3299

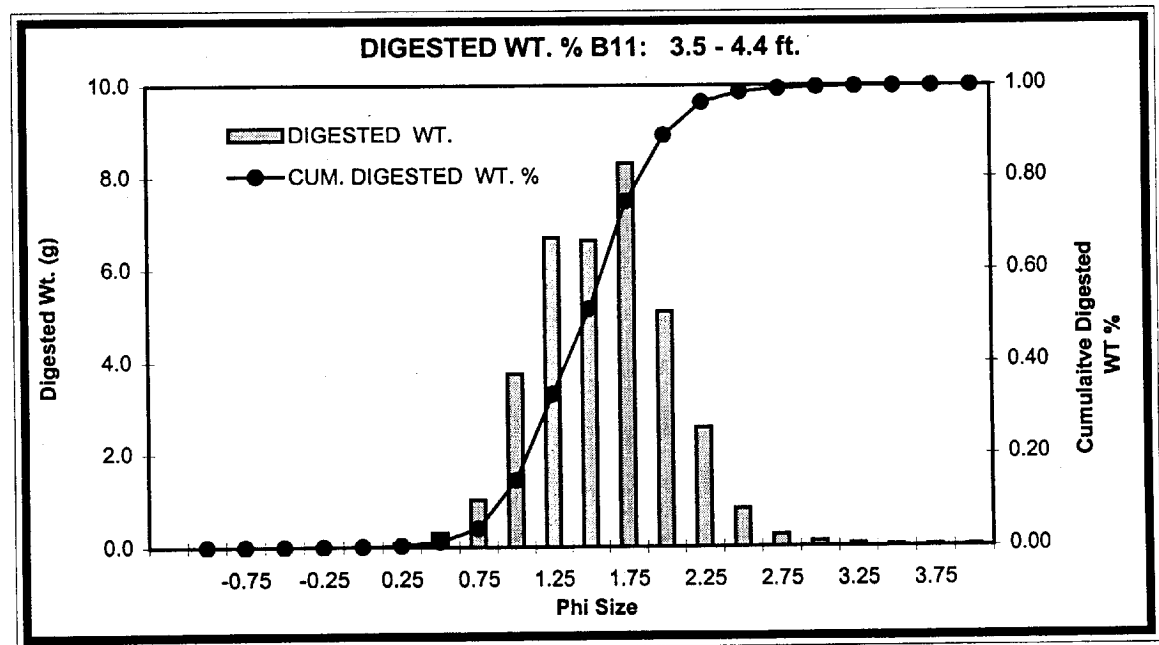


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B11: 3.5 - 4.4 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	5.6337	0	5.6337	0	0	0
-0.75	0.0704	0	0.0704	0	0	0
-0.50	0.0290	0	0.0290	0	0	0
-0.25	0.0378	0.0074	0.0304	0.0074	0.000206677	0.000206677
0.00	0.0602	0.0114	0.0488	0.0188	0.000318394	0.000525071
0.25	0.1250	0.0760	0.0490	0.0948	0.002122626	0.002647697
0.50	0.4191	0.3021	0.1170	0.3969	0.008437440	0.011085137
0.75	1.2632	1.0207	0.2425	1.4176	0.028507431	0.039592567
1.00	3.7877	3.7595	0.0282	5.1771	0.105000182	0.144592749
1.25	6.9139	6.6930	0.2209	11.8701	0.186930766	0.331523515
1.50	6.7562	6.6242	0.1320	18.4943	0.185009231	0.516532746
1.75	8.8640	8.3101	0.5539	26.8044	0.232095228	0.748627973
2.00	5.3209	5.0994	0.2215	31.9038	0.142422643	0.891050616
2.25	2.8610	2.5849	0.2761	34.4887	0.072194433	0.963245049
2.50	1.0890	0.8239	0.2651	35.3126	0.023010945	0.986255994
2.75	0.3800	0.2532	0.1268	35.5658	0.007071697	0.993327692
3.00	0.1901	0.1125	0.0776	35.6783	0.003142046	0.996469737
3.25	0.1346	0.0558	0.0788	35.7341	0.001558455	0.998028192
3.50	0.0700	0.0271	0.0429	35.7612	0.000756884	0.998785076
3.75	0.0829	0.0251	0.0578	35.7863	0.000701025	0.999486101
4.00	0.0586	0.0184	0.0402	35.8047	0.000513899	1

TOTAL WT. 44.1473 grams
 DIGESTED WT. 35.8047 grams
 % SILICA 81.1028

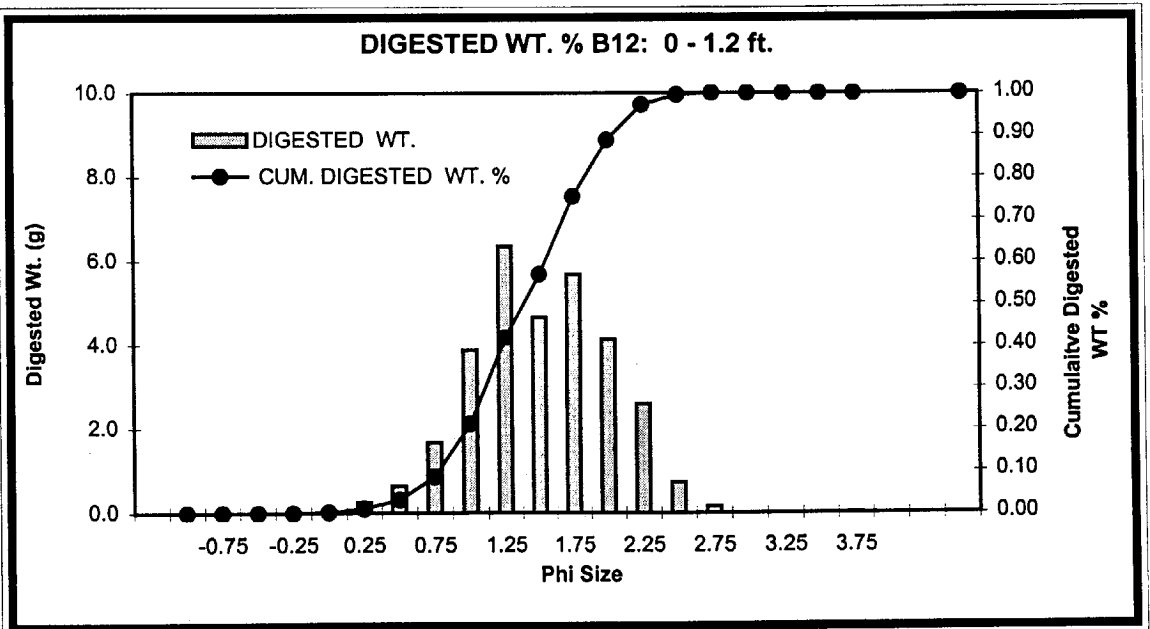


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B12: 0 - 1.2 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.0483	0	0.0483	0	0	0
-0.75	0.0384	0	0.0384	0	0	0
-0.50	0.1211	0	0.1211	0	0	0
-0.25	0.2161	0.0112	0.2049	0.0112	0.000362993	0.000362993
0.00	0.4719	0.0704	0.4015	0.0816	0.002281670	0.002644662
0.25	0.8289	0.2524	0.5765	0.3340	0.008180304	0.010824966
0.50	1.4255	0.6383	0.7872	0.9723	0.020687353	0.031512319
0.75	2.8968	1.6749	1.2219	2.6472	0.054283640	0.085795959
1.00	6.2040	3.8906	2.3134	6.5378	0.126094650	0.211890610
1.25	7.9073	6.3535	1.5538	12.8913	0.205917432	0.417808042
1.50	5.9424	4.6601	1.2823	17.5514	0.151034206	0.568842247
1.75	7.0818	5.6894	1.3924	23.2408	0.184393899	0.753236146
2.00	5.0230	4.1461	0.8769	27.3869	0.134375425	0.887611572
2.25	3.0773	2.5940	0.4833	29.9809	0.084071743	0.971683315
2.50	0.8069	0.7226	0.0843	30.7035	0.023419523	0.995102837
2.75	0.1635	0.1422	0.0213	30.8457	0.004608713	0.999711550
3.00	0.0620	0	0.0620	30.8457	0	0.999711550
3.25	0.0346	0	0.0346	30.8457	0	0.999711550
3.50	0.0189	0	0.0189	30.8457	0	0.999711550
3.75	0.0230	0.0089	0.0141	30.8546	0.000288450	1
4.00	0.0058	0	0.0058	30.8546	0	1

TOTAL WT. 42.3975 grams
 DIGESTED WT. 30.8546 grams
 % SILICA 72.7746

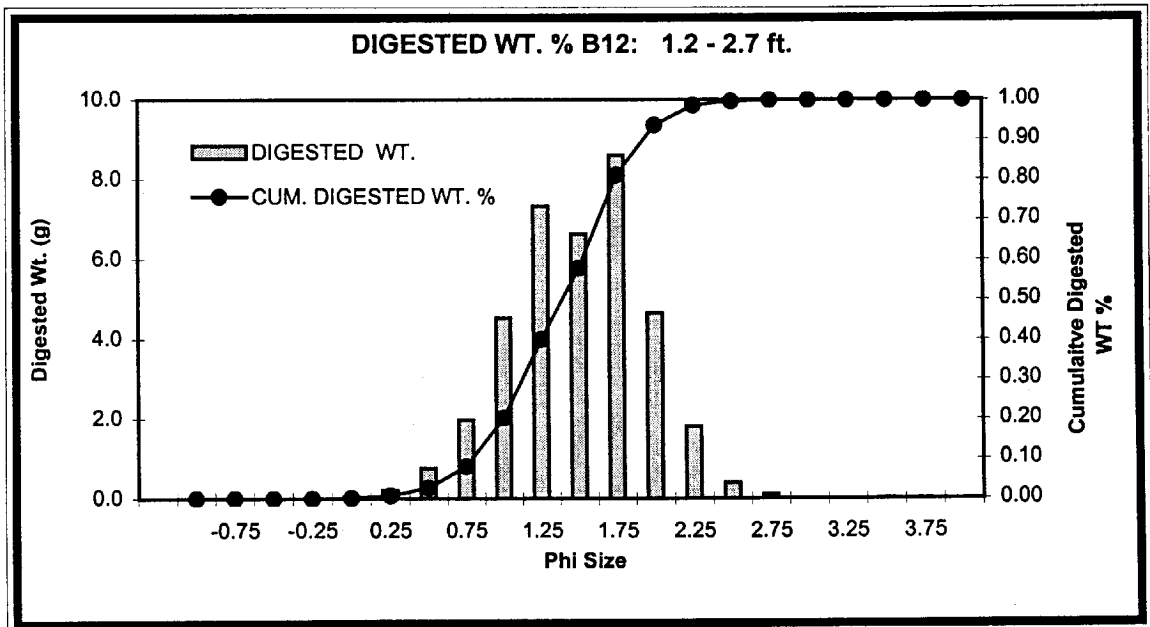


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B12: 1.2 - 2.7 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.1638	0	0.1638	0	0	0
-0.75	0.2034	0	0.2034	0	0	0
-0.50	0.2163	0	0.2163	0	0	0
-0.25	0.5264	0.0104	0.5160	0.0104	0.000280263	0.000280263
0.00	0.7060	0.0456	0.6604	0.0560	0.001228846	0.001509109
0.25	1.2490	0.2003	1.0487	0.2563	0.005397758	0.006906866
0.50	2.0618	0.7596	1.3022	1.0159	0.020469980	0.027376846
0.75	3.4167	1.9712	1.4455	2.9871	0.053120621	0.080497467
1.00	6.9795	4.5398	2.4397	7.5269	0.122340196	0.202837663
1.25	9.5032	7.3349	2.1683	14.8618	0.197663577	0.400501240
1.50	8.8204	6.6370	2.1834	21.4988	0.178856311	0.579357551
1.75	11.4224	8.6014	2.8210	30.1002	0.231793683	0.811151234
2.00	6.4153	4.6595	1.7558	34.7597	0.125565916	0.936717150
2.25	2.4618	1.8168	0.6450	36.5765	0.048959793	0.985676943
2.50	0.4682	0.3941	0.0741	36.9706	0.010620351	0.996297294
2.75	0.1213	0.1146	0.0067	37.0852	0.003088283	0.999385577
3.00	0.0720	0	0.0720	37.0852	0	0.999385577
3.25	0.0355	0	0.0355	37.0852	0	0.999385577
3.50	0.0148	0.0140	0.0008	37.0992	0.000377277	0.999762854
3.75	0.0093	0.0088	0.0005	37.1080	0.000237146	1
4.00	0.0070	0	0.0070	37.1080	0	1

TOTAL WT. 54.8741 grams
 DIGESTED WT. 37.1080 grams
 % SILICA 67.6239

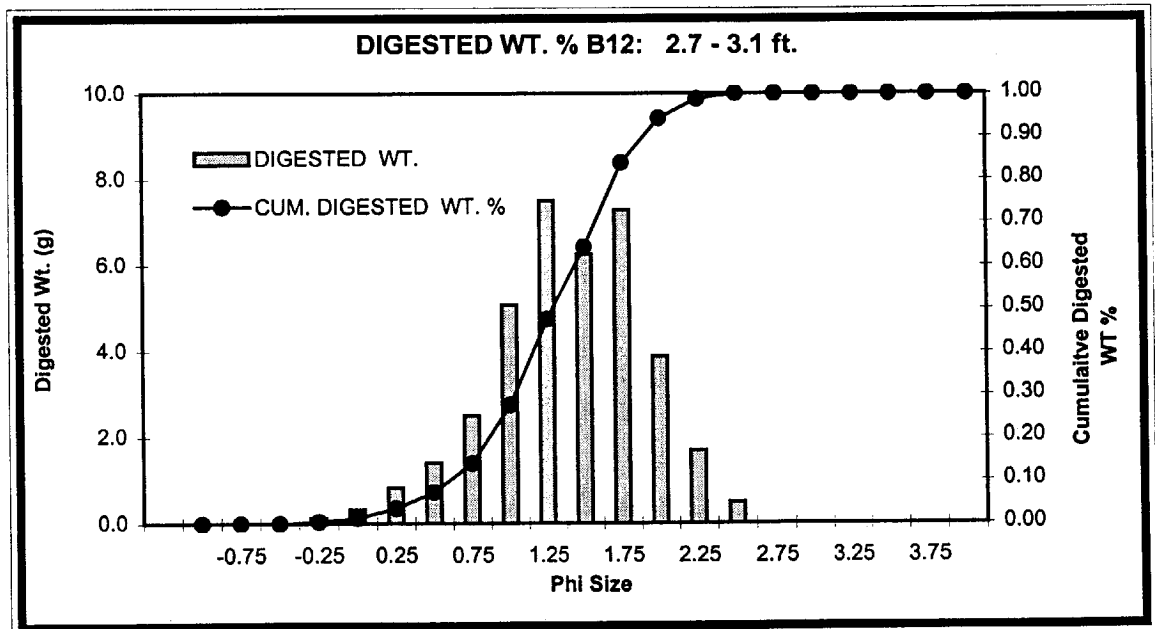


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B12: 2.7 - 3.1 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	1.2134	0	1.2134	0	0	0
-0.75	0.6828	0	0.6828	0	0	0
-0.50	1.2116	0.0061	1.2055	0.0061	0.000163335	0.000163335
-0.25	1.8770	0.1269	1.7501	0.1330	0.003397900	0.003561234
0.00	2.0360	0.3169	1.7191	0.4499	0.008485378	0.012046612
0.25	2.8790	0.8230	2.0560	1.2729	0.022036812	0.034083424
0.50	3.4632	1.4080	2.0552	2.6809	0.037700888	0.071784312
0.75	4.2385	2.5060	1.7325	5.1869	0.067101155	0.138885467
1.00	7.1377	5.0795	2.0582	10.2664	0.136009704	0.274895171
1.25	8.7235	7.4935	1.2300	17.7599	0.200647448	0.475542620
1.50	7.5423	6.2526	1.2897	24.0125	0.167420863	0.642963483
1.75	8.5888	7.2692	1.3196	31.2817	0.194641547	0.837605030
2.00	4.5516	3.8797	0.6719	35.1614	0.103883620	0.941488650
2.25	1.9267	1.6892	0.2375	36.8506	0.045230356	0.986719005
2.50	0.5498	0.4960	0.0538	37.3466	0.013280995	1
2.75	0.1842	0	0.1842	37.3466	0	1
3.00	0.1347	0	0.1347	37.3466	0	1
3.25	0.0684	0	0.0684	37.3466	0	1
3.50	0.0253	0	0.0253	37.3466	0	1
3.75	0.0119	0	0.0119	37.3466	0	1
4.00	0.0054	0	0.0054	37.3466	0	1

TOTAL WT.	57.0518	grams
DIGESTED WT.	37.3466	grams
% SILICA	65.4609	

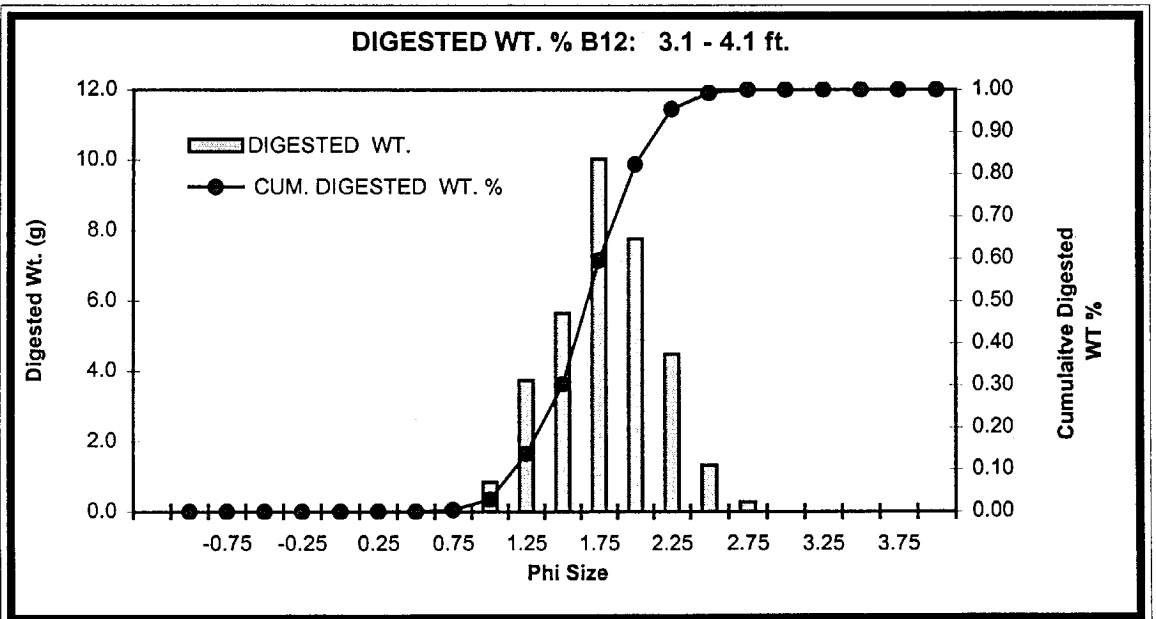


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B12: 3.1 - 4.1 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0	0	0	0	0	0
-0.75	0	0	0	0	0	0
-0.50	0.0040	0	0.0040	0	0	0
-0.25	0.0022	0	0.0022	0	0	0
0.00	0.0098	0.0061	0.0037	0.0061	0.000178201	0.000178201
0.25	0.0301	0.0071	0.0230	0.0132	0.000207414	0.000385614
0.50	0.0888	0.0234	0.0654	0.0366	0.000683589	0.001069203
0.75	0.2345	0.1140	0.1205	0.1506	0.003330305	0.004399508
1.00	1.3769	0.8265	0.5504	0.9771	0.024144711	0.028544219
1.25	4.4051	3.7365	0.6686	4.7136	0.109155125	0.137699344
1.50	6.6521	5.6483	1.0038	10.3619	0.165004922	0.302704266
1.75	11.9962	10.0329	1.9633	20.3948	0.293093123	0.595797389
2.00	9.0767	7.7644	1.3123	28.1592	0.226822977	0.822620366
2.25	5.2880	4.4874	0.8006	32.6466	0.131091318	0.953711683
2.50	1.5578	1.3239	0.2339	33.9705	0.038675357	0.992387040
2.75	0.2704	0.2606	0.0098	34.2311	0.007612960	1
3.00	0.0837	0	0.0837	34.2311	0	1
3.25	0.0276	0	0.0276	34.2311	0	1
3.50	0.0116	0	0.0116	34.2311	0	1
3.75	0.0095	0	0.0095	34.2311	0	1
4.00	0.0051	0	0.0051	34.2311	0	1

TOTAL WT. 41.1301 grams
DIGESTED WT. 34.2311 grams
% SILICA 83.2264

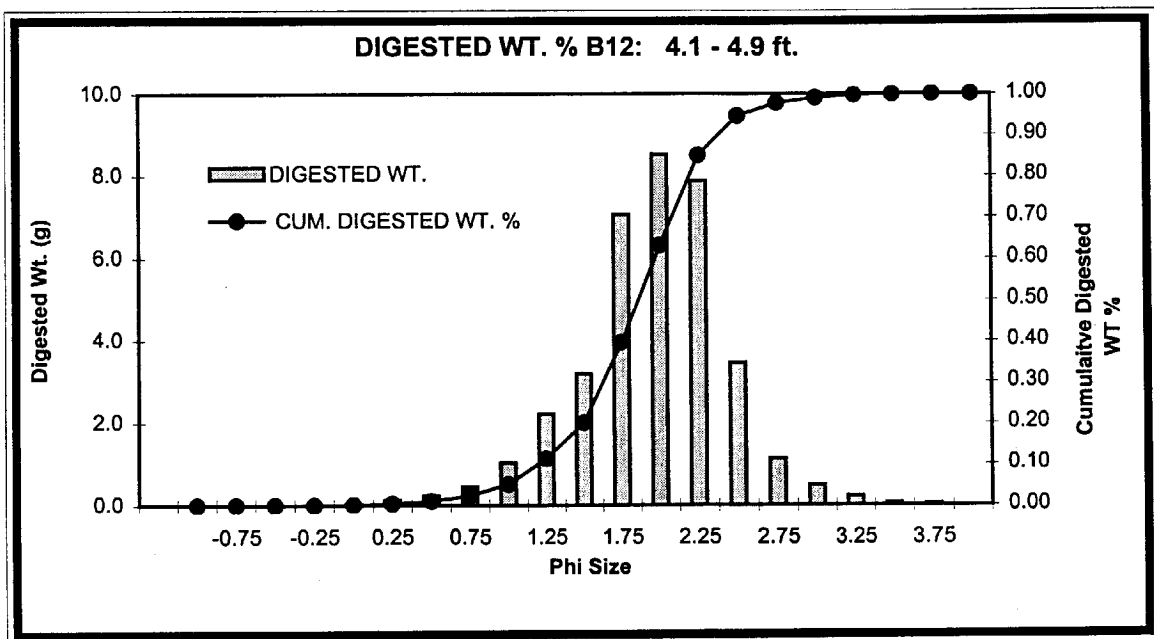


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B12: 4.1 - 4.9 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.3075	0	0.3075	0	0	0
-0.75	0.0464	0	0.0464	0	0	0
-0.50	0.1724	0	0.1724	0	0	0
-0.25	0.2528	0.0041	0.2487	0.0041	0.000113417	0.000113417
0.00	0.2915	0.0250	0.2665	0.0291	0.000691567	0.000804984
0.25	0.4625	0.1231	0.3394	0.1522	0.003405275	0.004210258
0.50	0.6363	0.2255	0.4108	0.3777	0.006237932	0.010448191
0.75	0.9025	0.4561	0.4464	0.8338	0.012616944	0.023065135
1.00	1.8244	1.0325	0.7919	1.8663	0.028561707	0.051626842
1.25	3.1149	2.2282	0.8867	4.0945	0.061637962	0.113264804
1.50	4.2681	3.1924	1.0757	7.2869	0.088310309	0.201575112
1.75	9.3226	7.0617	2.2609	14.3486	0.195345479	0.396920592
2.00	10.9066	8.5122	2.3944	22.8608	0.235470182	0.632390774
2.25	9.6274	7.8794	1.7480	30.7402	0.217965245	0.850356019
2.50	4.2217	3.4573	0.7644	34.1975	0.095638150	0.945994169
2.75	1.2964	1.1252	0.1712	35.3227	0.031126037	0.977120205
3.00	0.5214	0.4960	0.0254	35.8187	0.013720684	0.990840890
3.25	0.2453	0.2250	0.0203	36.0437	0.006224101	0.997064991
3.50	0.0752	0.0662	0.0090	36.1099	0.001831269	0.998896259
3.75	0.0442	0.0399	0.0043	36.1498	0.001103741	1
4.00	0.0202	0	0.0202	36.1498	0	1

TOTAL WT.	48.5603	grams
DIGESTED WT.	36.1498	grams
% SILICA	74.4431	

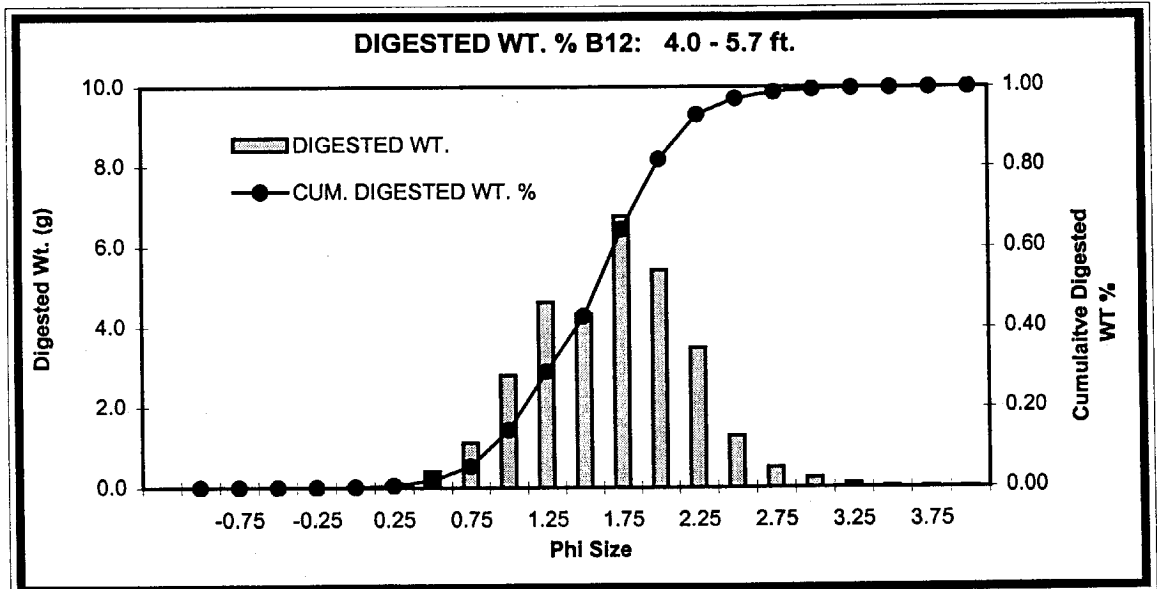


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B12: 4.9 - 5.7 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	7.7120	0	7.7120	0	0	0
-0.75	0.1180	0	0.1180	0	0	0
-0.50	0.1302	0	0.1302	0	0	0
-0.25	0.1825	0	0.1825	0	0	0
0.00	0.2742	0.0318	0.2424	0.0318	0.001014649	0.001014649
0.25	0.5312	0.1080	0.4232	0.1398	0.003445976	0.004460625
0.50	0.9788	0.4045	0.5743	0.5443	0.012906458	0.017367083
0.75	1.7641	1.1081	0.6560	1.6524	0.035356355	0.052723438
1.00	3.2911	2.8127	0.4784	4.4651	0.089745349	0.142468787
1.25	5.6678	4.6424	1.0254	9.1075	0.148125931	0.290594718
1.50	4.9454	4.3427	0.6027	13.4502	0.138563347	0.429158065
1.75	7.5004	6.7758	0.7246	20.2260	0.216196727	0.645354792
2.00	5.8435	5.4409	0.4026	25.6669	0.173603821	0.818958613
2.25	3.7544	3.4894	0.2650	29.1563	0.111336943	0.930295556
2.50	1.4513	1.2869	0.1644	30.4432	0.041061361	0.971356917
2.75	0.5316	0.4856	0.0460	30.9288	0.015494131	0.986851048
3.00	0.2643	0.2400	0.0243	31.1688	0.007657725	0.994508773
3.25	0.1327	0.0980	0.0347	31.2668	0.003126904	0.997635677
3.50	0.0518	0.0322	0.0196	31.2990	0.001027411	0.998663089
3.75	0.0516	0.0249	0.0267	31.3239	0.000794489	0.999457578
4.00	0.0372	0.0170	0.0202	31.3409	0.000542422	1

TOTAL WT. 45.2141 grams
DIGESTED WT. 31.3409 grams
% SILICA 69.3167

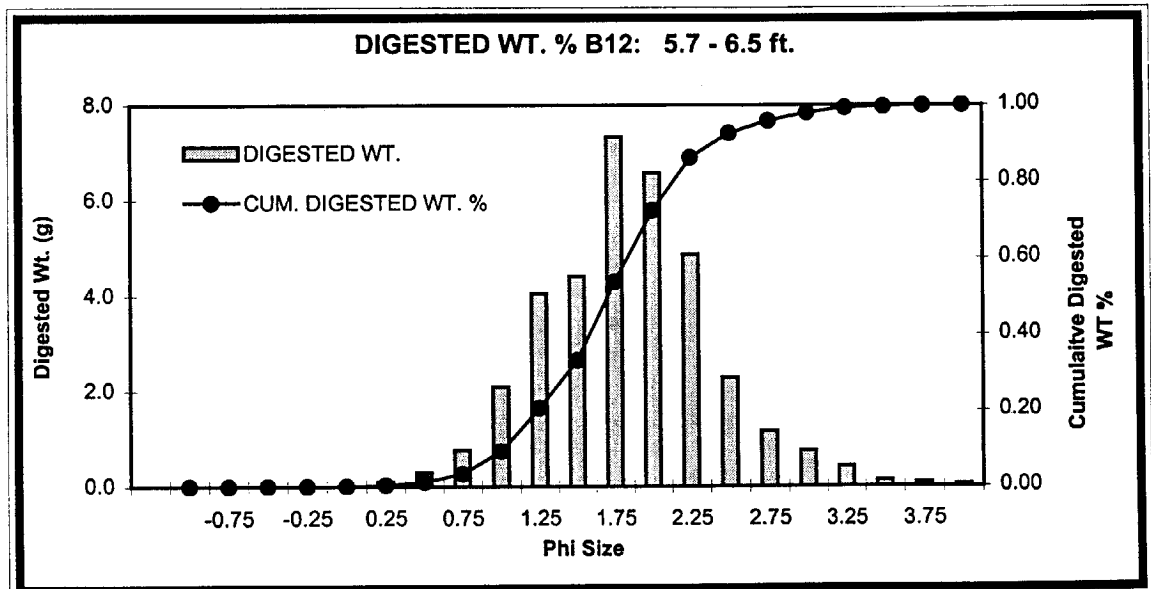


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B12: 5.7 - 6.5 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	16.4927	0	16.4927	0	0	0
-0.75	0.0579	0	0.0579	0	0	0
-0.50	0.0705	0	0.0705	0	0	0
-0.25	0.1218	0	0.1218	0	0	0
0.00	0.1660	0.0138	0.1522	0.0138	0.000389763	0.000389763
0.25	0.3300	0.0940	0.2360	0.1078	0.002654910	0.003044673
0.50	0.6374	0.2905	0.3469	0.3983	0.008204801	0.011249474
0.75	1.2995	0.7591	0.5404	1.1574	0.021439808	0.032689282
1.00	2.7193	2.0967	0.6226	3.2541	0.059218609	0.091907892
1.25	4.9878	4.0576	0.9302	7.3117	0.114601721	0.206509613
1.50	5.1276	4.4177	0.7099	11.7294	0.124772285	0.331281898
1.75	8.3562	7.3408	1.0154	19.0702	0.207331505	0.538613403
2.00	7.1391	6.5789	0.5602	25.6491	0.185812614	0.724426017
2.25	5.2631	4.8764	0.3867	30.5255	0.137727680	0.862153697
2.50	2.5242	2.2889	0.2353	32.8144	0.064647052	0.926800749
2.75	1.2601	1.1676	0.0925	33.9820	0.032977368	0.959778117
3.00	0.7921	0.7470	0.0451	34.7290	0.021098059	0.980876177
3.25	0.5016	0.4250	0.0766	35.1540	0.012003581	0.992879758
3.50	0.1802	0.1312	0.0490	35.2852	0.003705576	0.996585334
3.75	0.1470	0.0809	0.0661	35.3661	0.002284917	0.998870251
4.00	0.0931	0.0400	0.0531	35.4061	0.001129749	1

TOTAL WT. 58.2672 grams
DIGESTED WT. 35.4061 grams
% SILICA 60.7651

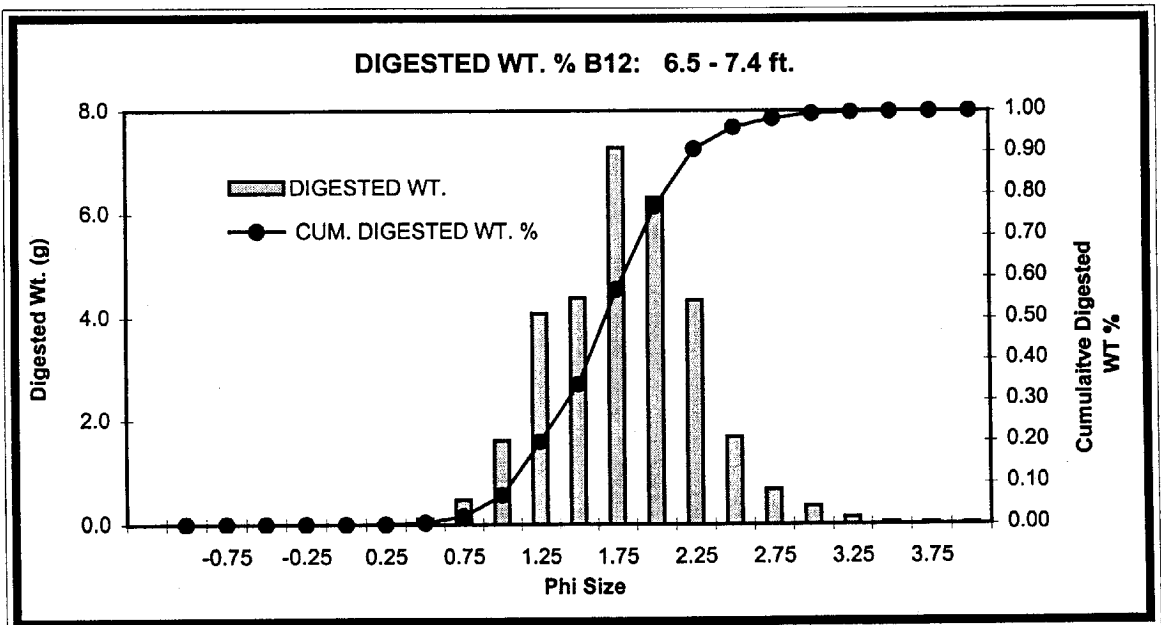


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B12: 6.5 - 7.4 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	6.5756	0	6.5756	0	0	0
-0.75	0	0	0	0	0	0
-0.50	0.0062	0	0.0062	0	0	0
-0.25	0.0137	0	0.0137	0	0	0
0.00	0.0317	0.0018	0.0299	0.0018	0.000056978	0.000056978
0.25	0.0649	0.0230	0.0419	0.0248	0.000728058	0.000785036
0.50	0.2005	0.1215	0.0790	0.1463	0.003846044	0.004631080
0.75	0.6411	0.4831	0.1580	0.6294	0.015292379	0.019923459
1.00	1.9508	1.6207	0.3301	2.2501	0.051302749	0.071226208
1.25	4.5471	4.0884	0.4587	6.3385	0.129417016	0.200643223
1.50	5.0632	4.3887	0.6745	10.7272	0.138922918	0.339566141
1.75	8.4701	7.2768	1.1933	18.0040	0.230344814	0.569910955
2.00	7.2051	6.3149	0.8902	24.3189	0.199896173	0.769807128
2.25	4.9657	4.3444	0.6213	28.6633	0.137520615	0.907327743
2.50	2.0746	1.6809	0.3937	30.3442	0.053208361	0.960536104
2.75	0.8658	0.6706	0.1952	31.0148	0.021227632	0.981763736
3.00	0.4647	0.3490	0.1157	31.3638	0.011047485	0.992811221
3.25	0.2545	0.1400	0.1145	31.5038	0.004431656	0.997242877
3.50	0.0916	0.0412	0.0504	31.5450	0.001304173	0.998547050
3.75	0.0939	0.0299	0.0640	31.5749	0.000946475	0.999493525
4.00	0.0642	0.0160	0.0482	31.5909	0.000506475	1

TOTAL WT. 43.6450 grams
DIGESTED WT. 31.5909 grams
% SILICA 72.3815

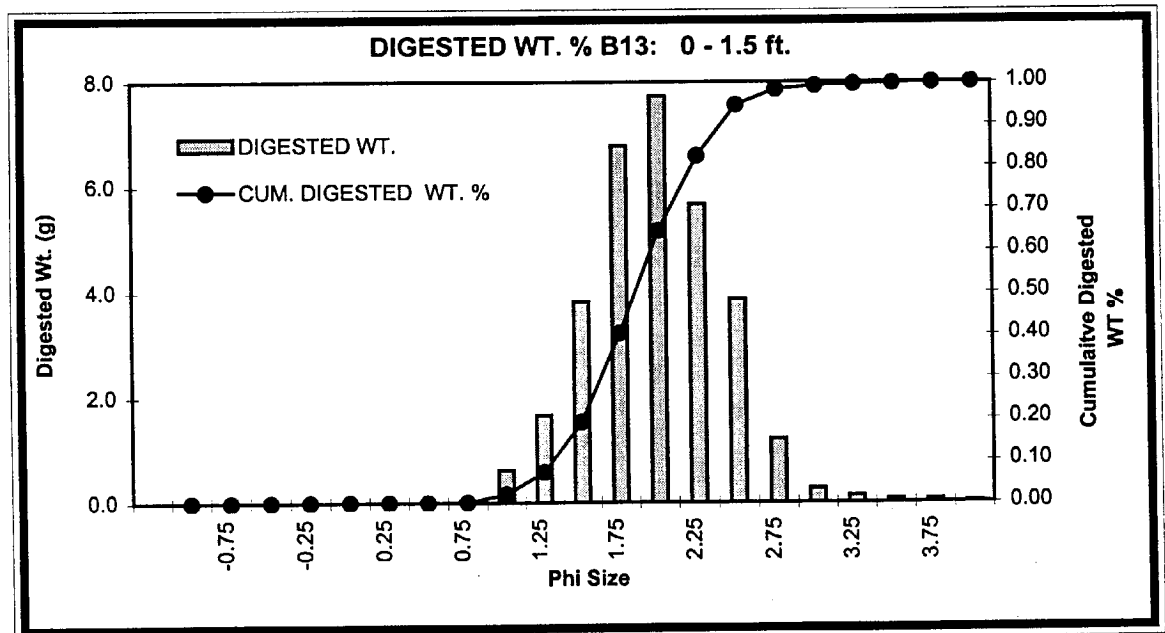


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B13: 0 - 1.5 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0	0	0	0	0	0
-0.75	0	0	0	0	0	0
-0.50	0.0288	0	0.0288	0	0	0
-0.25	0	0	0	0	0	0
0.00	0.0409	0	0.0409	0	0	0
0.25	0.0736	0.0017	0.0719	0.0017	0.000053160	0.000053160
0.50	0.0906	0.0057	0.0849	0.0074	0.000178241	0.000231400
0.75	0.2542	0.0364	0.2178	0.0438	0.001138240	0.001369640
1.00	0.6108	0.6108	0	0.6546	0.019099915	0.020469555
1.25	1.6658	1.6658	0	2.3204	0.052090109	0.072559664
1.50	3.8271	3.8271	0	6.1475	0.119674664	0.192234327
1.75	6.8325	6.7837	0.0488	12.9312	0.212128509	0.404362836
2.00	8.2851	7.7335	0.5516	20.6647	0.241829064	0.646191900
2.25	9.0890	5.6706	3.4184	26.3353	0.177321509	0.823513409
2.50	6.6703	3.8742	2.7961	30.2095	0.121147496	0.944660905
2.75	4.6288	1.2119	3.4169	31.4214	0.037896508	0.982557412
3.00	1.3211	0.2655	1.0556	31.6869	0.008302271	0.990859684
3.25	0.3501	0.1316	0.2185	31.8185	0.004115175	0.994974859
3.50	0.0702	0.0694	0.0008	31.8879	0.002170161	0.997145019
3.75	0.0701	0.0616	0.0085	31.9495	0.001926252	0.999071271
4.00	0.0482	0.0297	0.0185	31.9792	0.000928729	1

TOTAL WT. 43.9572 grams
DIGESTED WT. 31.9792 grams
% SILICA 72.7508

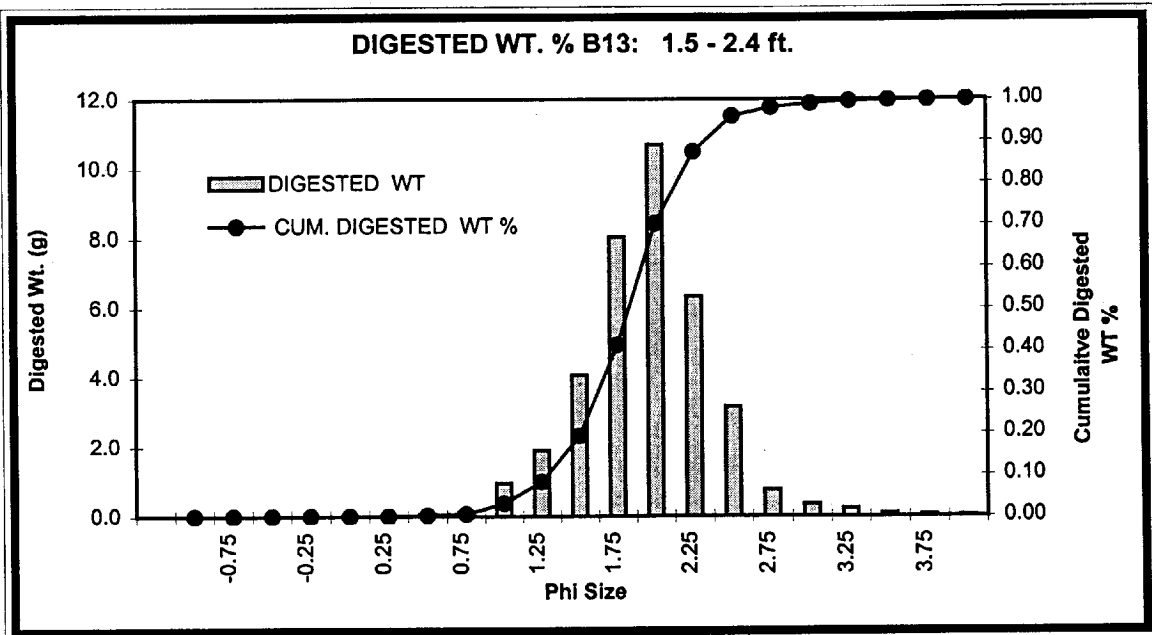


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B13: 1.5 - 2.4 ft

PHI	TOTAL WT	DIGESTED WT	CO3 WT	CUM. WT	DIGESTED WT %	CUM. DIGESTED WT %
-1.00	0.0506	0	0.0506	0	0	0
-0.75	0.1002	0	0.1002	0	0	0
-0.50	0.1988	0	0.1988	0	0	0
-0.25	0.1989	0	0.1989	0	0	0
0.00	0.3496	0	0.3496	0	0	0
0.25	0.3492	0	0.3492	0	0	0
0.50	0.5893	0.0728	0.5165	0.0728	0.001976397	0.001976397
0.75	1.0746	0.1249	0.9497	0.1977	0.003390824	0.005367222
1.00	1.5096	0.9585	0.5511	1.1562	0.026021659	0.031388881
1.25	2.7777	1.8930	0.8847	3.0492	0.051391758	0.082780639
1.50	5.0875	4.0751	1.0124	7.1243	0.110632094	0.193412733
1.75	8.4858	8.0371	0.4487	15.1614	0.218193714	0.411606447
2.00	11.8359	10.6863	1.1496	25.8477	0.290115027	0.701721475
2.25	8.3421	6.3272	2.0149	32.1749	0.171772812	0.873494287
2.50	4.9215	3.1622	1.7593	35.3371	0.085848398	0.959342685
2.75	1.3290	0.7511	0.5779	36.0882	0.020391099	0.979733784
3.00	0.3862	0.3574	0.0288	36.4456	0.009702807	0.989436591
3.25	0.2469	0.2320	0.0149	36.6776	0.006298409	0.995735000
3.50	0.1012	0.0859	0.0153	36.7635	0.002332040	0.998067040
3.75	0.0508	0.0481	0.0027	36.8116	0.001305834	0.999372874
4.00	0.0356	0.0231	0.0125	36.8347	0.000627126	1

TOTAL WT. 48.0210 grams
DIGESTED WT. 36.8347 grams
% SILICA 76.7054

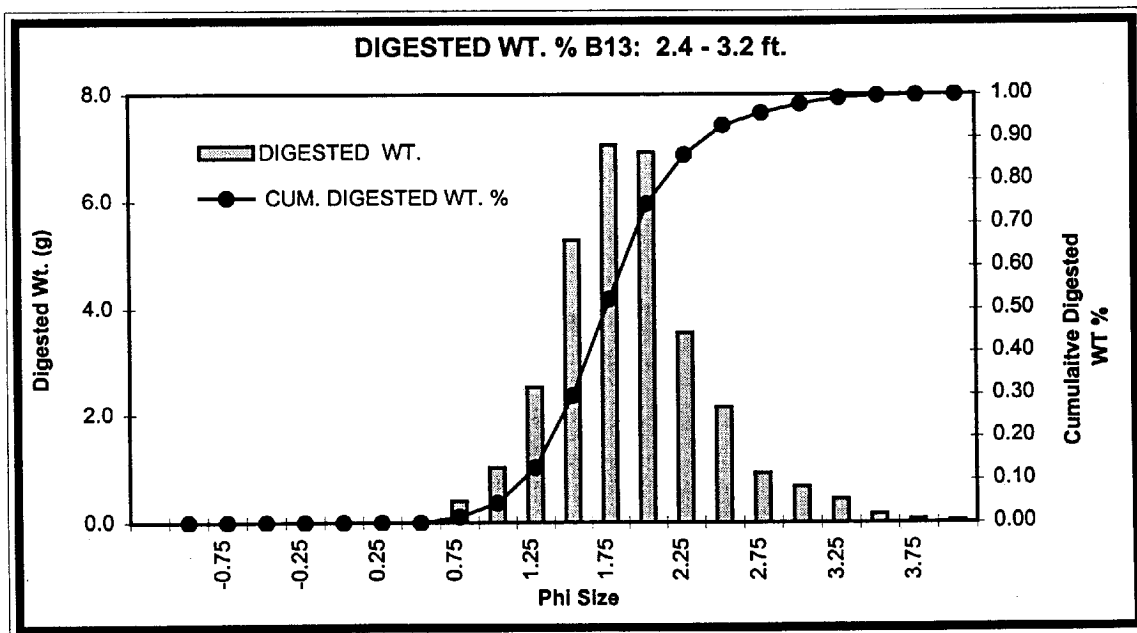


GRAIN SIZE DISTRIBUTION CHART

B13: 2.4 - 3.2 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.4014	0	0.4014	0	0	0
-0.75	0.2501	0	0.2501	0	0	0
-0.50	0.1399	0	0.1399	0	0	0
-0.25	0.2465	0	0.2465	0	0	0
0.00	0.1129	0	0.1129	0	0	0
0.25	0.4267	0	0.4267	0	0	0
0.50	0.6583	0.0092	0.6491	0.0092	0.000295032	0.000295032
0.75	1.2439	0.4011	0.8428	0.4103	0.012862737	0.013157768
1.00	1.7423	1.0255	0.7168	1.4358	0.032886403	0.046044171
1.25	3.7263	2.5265	1.1998	3.9623	0.081021451	0.127065622
1.50	6.2874	5.2850	1.0024	9.2473	0.169482829	0.296548451
1.75	8.5988	7.0515	1.5473	16.2988	0.226132104	0.522680555
2.00	8.5104	6.9170	1.5934	23.2158	0.221818870	0.744499424
2.25	4.7133	3.5472	1.1661	26.7630	0.113753924	0.858253349
2.50	2.6671	2.1487	0.5184	28.9117	0.068905914	0.927159263
2.75	1.1596	0.9117	0.2479	29.8234	0.029236991	0.956396253
3.00	0.6994	0.6681	0.0313	30.4915	0.021425067	0.977821320
3.25	0.4544	0.4326	0.0218	30.9241	0.013872899	0.991694219
3.50	0.1666	0.1548	0.0118	31.0789	0.004964227	0.996658446
3.75	0.0707	0.0632	0.0075	31.1421	0.002026739	0.998685185
4.00	0.0566	0.0410	0.0156	31.1831	0.001314815	1

TOTAL WT. **42.3326** **grams**
DIGESTED WT. **31.1831** **grams**
% SILICA **73.6621**

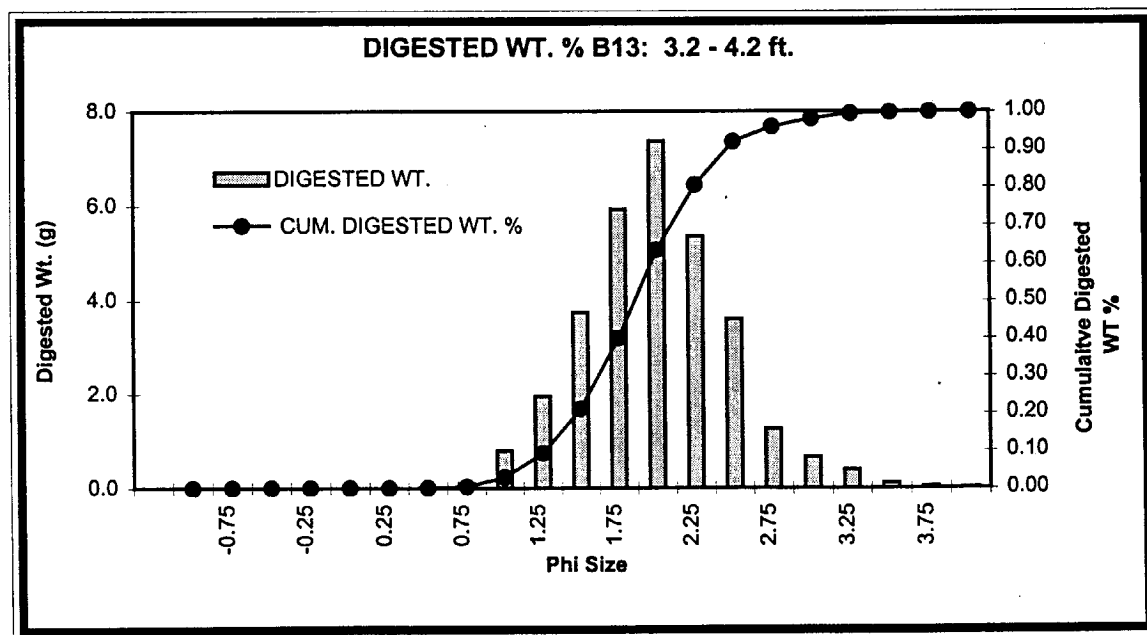


POST DIGESTION GRAIN SIZE DISTRIBUTION

CORE B13: 3.2 - 4.2 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.0242	0	0.0242	0	0	0
-0.75	0.0710	0	0.0710	0	0	0
-0.50	0.0453	0	0.0453	0	0	0
-0.25	0.1086	0	0.1086	0	0	0
0.00	0.2509	0	0.2509	0	0	0
0.25	0.2508	0	0.2508	0	0	0
0.50	0.4864	0.0209	0.4655	0.0209	0.000666225	0.000666225
0.75	1.0079	0.1049	0.9030	0.1258	0.003343874	0.004010099
1.00	1.1209	0.7897	0.3312	0.9155	0.025173091	0.029183189
1.25	2.7559	1.9633	0.7926	2.8788	0.062583677	0.091766866
1.50	4.8596	3.7375	1.1221	6.6163	0.119139455	0.210906321
1.75	7.1472	5.9189	1.2283	12.5352	0.188675456	0.399581777
2.00	8.6917	7.3643	1.3274	19.8995	0.234750150	0.634331927
2.25	6.1293	5.3553	0.7740	25.2548	0.170709705	0.805041631
2.50	4.4710	3.6087	0.8623	28.8635	0.115033726	0.920075357
2.75	1.6737	1.2596	0.4141	30.1231	0.040151988	0.960227345
3.00	0.7764	0.6608	0.1156	30.7839	0.021064174	0.981291520
3.25	0.4468	0.3956	0.0512	31.1795	0.012610453	0.993901973
3.50	0.1408	0.1189	0.0219	31.2984	0.003790149	0.997692121
3.75	0.0623	0.0456	0.0167	31.3440	0.001453581	0.999145702
4.00	0.0356	0.0268	0.0088	31.3708	0.000854298	1

TOTAL WT. 40.5563 grams
DIGESTED WT. 31.3708 grams
% SILICA 77.3512

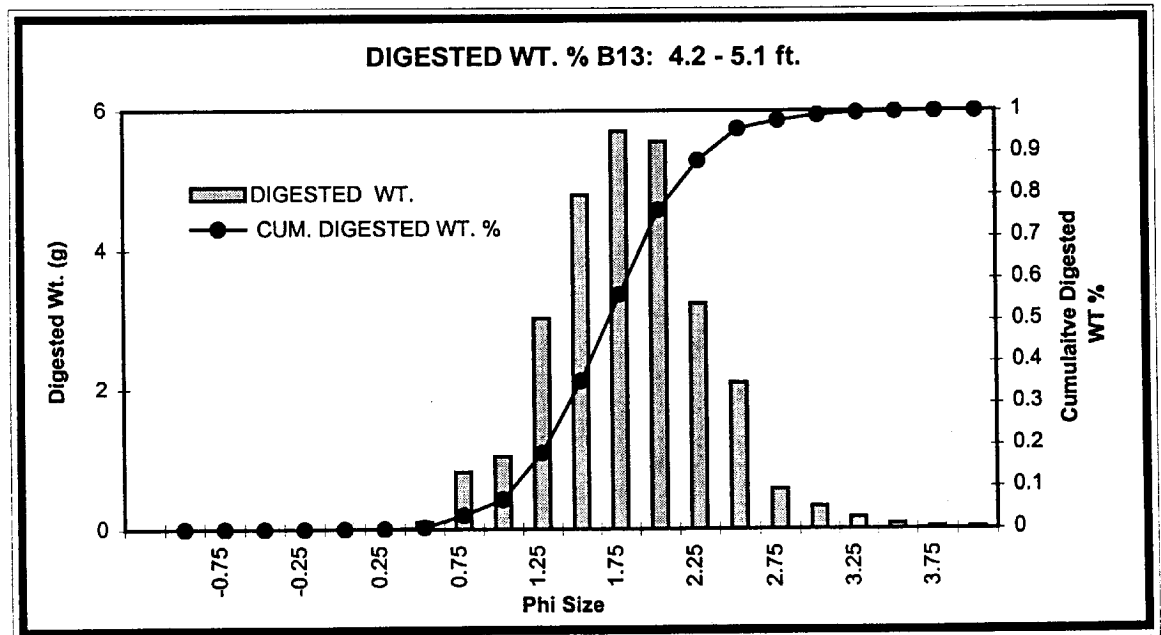


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B13: 4.2 - 5.1 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0	0	0	0	0	0
-0.75	0.0161	0	0.0161	0	0	0
-0.50	0.0812	0	0.0812	0	0	0
-0.25	0.0673	0	0.0673	0	0	0
0.00	0.1164	0	0.1164	0	0	0
0.25	0.3607	0	0.3607	0	0	0
0.50	1.7973	0.0964	1.7009	0.0964	0.003500554	0.003500554
0.75	0.8431	0.8024	0.0407	0.8988	0.029137389	0.032637943
1.00	2.3817	1.0311	1.3506	1.9299	0.037442126	0.070080070
1.25	4.6032	3.0301	1.5731	4.9600	0.110031411	0.180111480
1.50	6.4667	4.7936	1.6731	9.7536	0.174069031	0.354180511
1.75	6.3639	5.6991	0.6648	15.4527	0.206950270	0.561130781
2.00	6.5948	5.5513	1.0435	21.0040	0.201583238	0.762714019
2.25	3.7294	3.2436	0.4858	24.2476	0.117784193	0.880498212
2.50	2.2801	2.0968	0.1833	26.3444	0.076140676	0.956638887
2.75	0.7362	0.5658	0.1704	26.9102	0.020545781	0.977184669
3.00	0.3813	0.3240	0.0573	27.2342	0.011765347	0.988950015
3.25	0.1963	0.1679	0.0284	27.4021	0.006096919	0.995046934
3.50	0.0784	0.0784	0.0000	27.4805	0.002846923	0.997893858
3.75	0.0432	0.0337	0.0095	27.5142	0.001223741	0.999117599
4.00	0.0357	0.0243	0.0114	27.5385	0.000882401	1

TOTAL WT. 37.1730 grams
DIGESTED WT. 27.5385 grams
SAMPLE % SILICA 74.0820

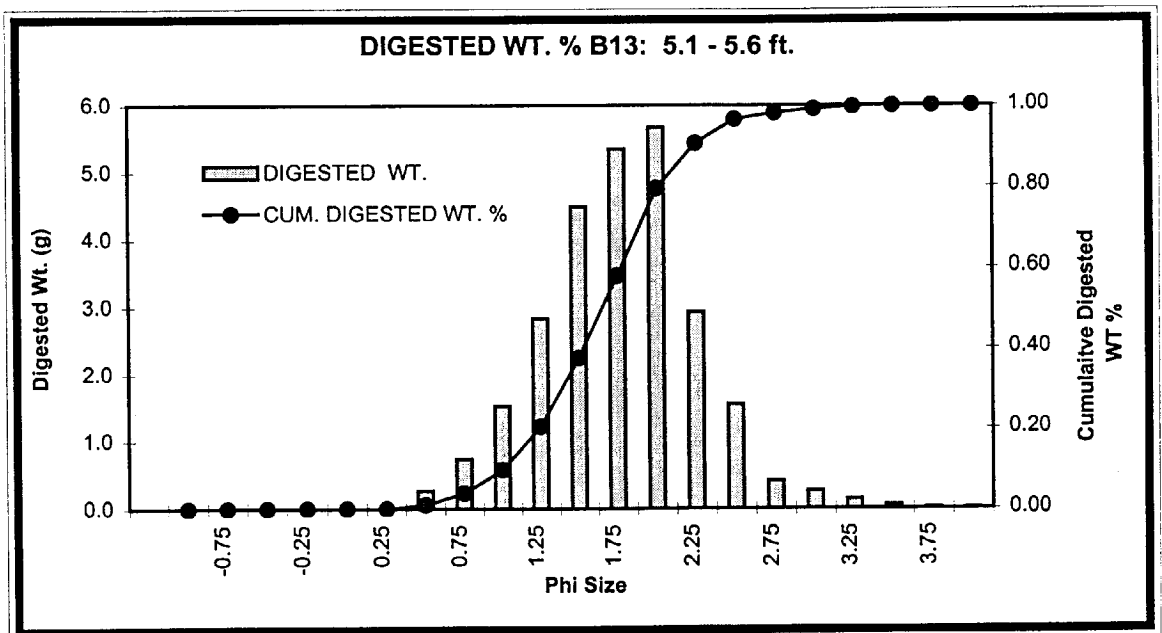


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B13: 5.1 - 5.6 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.9969	0	0.9969	0	0	0
-0.75	0.4910	0	0.4910	0	0	0
-0.50	0.3868	0	0.3868	0	0	0
-0.25	0.6574	0	0.6574	0	0	0
0.00	0.6408	0	0.6408	0	0	0
0.25	0.9565	0	0.9565	0	0	0
0.50	1.2654	0.2609	1.0045	0.2609	0.009930838	0.009930838
0.75	2.0548	0.7412	1.3136	1.0021	0.028212868	0.038143706
1.00	2.1972	1.5288	0.6684	2.5309	0.058191895	0.096335601
1.25	4.0030	2.8318	1.1712	5.3627	0.107788990	0.204124590
1.50	5.8158	4.4962	1.3196	9.8589	0.171142332	0.375266922
1.75	6.4571	5.3531	1.1040	15.2120	0.203759178	0.579026100
2.00	6.6374	5.6724	0.9650	20.8844	0.215912941	0.794939041
2.25	3.6682	2.9332	0.7350	23.8176	0.111648656	0.906587697
2.50	2.0561	1.5568	0.4993	25.3744	0.059257680	0.965845377
2.75	0.6911	0.4104	0.2807	25.7848	0.015621372	0.981466749
3.00	0.3786	0.2674	0.1112	26.0522	0.010178253	0.991645002
3.25	0.2391	0.1428	0.0963	26.1950	0.005435507	0.997080509
3.50	0.0983	0.0522	0.0461	26.2472	0.001986929	0.999067438
3.75	0.0563	0.0158	0.0405	26.2630	0.000601408	0.999668845
4.00	0.0491	0.0087	0.0404	26.2717	0.000331155	1

TOTAL WT. 39.7969 grams
DIGESTED WT. 26.2717 grams
% SILICA 66.0144

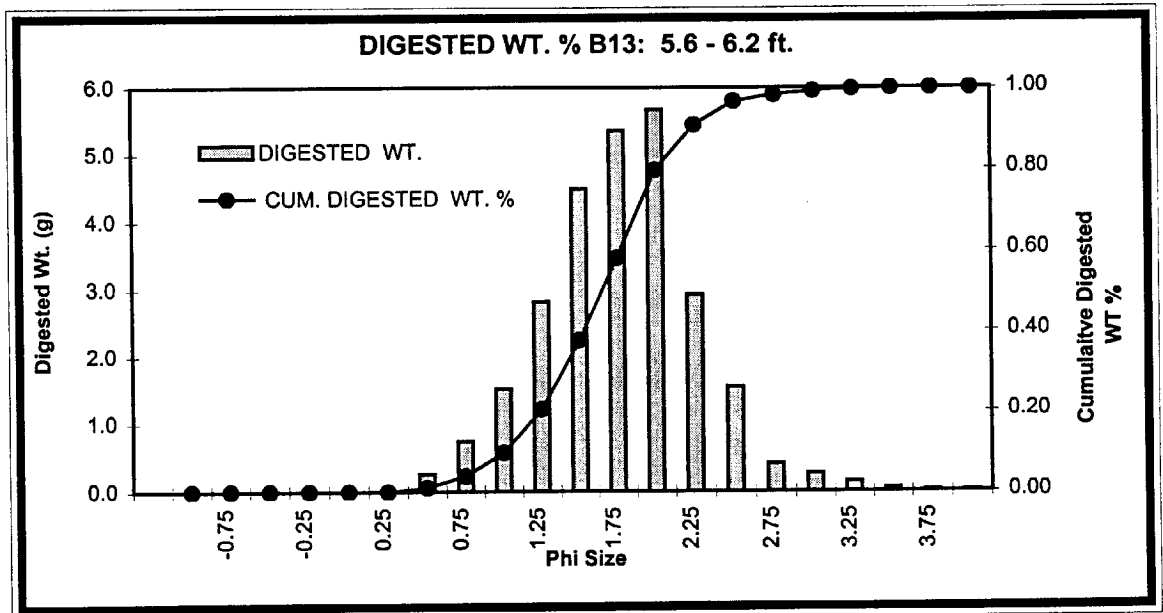


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B13: 5.6 - 6.2 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.9969	0	0.9969	0	0	0
-0.75	0.4910	0	0.4910	0	0	0
-0.50	0.3868	0	0.3868	0	0	0
-0.25	0.6574	0	0.6574	0	0	0
0.00	0.6408	0	0.6408	0	0	0
0.25	0.9565	0	0.9565	0	0	0
0.50	1.2654	0.2609	1.0045	0.2609	0.009930838	0.009930838
0.75	2.0548	0.7412	1.3136	1.0021	0.028212868	0.038143706
1.00	2.1972	1.5288	0.6684	2.5309	0.058191895	0.096335601
1.25	4.0030	2.8318	1.1712	5.3627	0.107788990	0.204124590
1.50	5.8158	4.4962	1.3196	9.8589	0.171142332	0.375266922
1.75	6.4571	5.3531	1.1040	15.2120	0.203759178	0.579026100
2.00	6.6374	5.6724	0.9650	20.8844	0.215912941	0.794939041
2.25	3.6682	2.9332	0.7350	23.8176	0.111648656	0.906587697
2.50	2.0561	1.5568	0.4993	25.3744	0.059257680	0.965845377
2.75	0.6911	0.4104	0.2807	25.7848	0.015621372	0.981466749
3.00	0.3786	0.2674	0.1112	26.0522	0.010178253	0.991645002
3.25	0.2391	0.1428	0.0963	26.1950	0.005435507	0.997080509
3.50	0.0983	0.0522	0.0461	26.2472	0.001986929	0.999067438
3.75	0.0563	0.0158	0.0405	26.2630	0.000601408	0.999668845
4.00	0.0491	0.0087	0.0404	26.2717	0.000331155	1

TOTAL WT. 39.7969 grams
DIGESTED WT. 26.2717 grams
% SILICA 66.014438

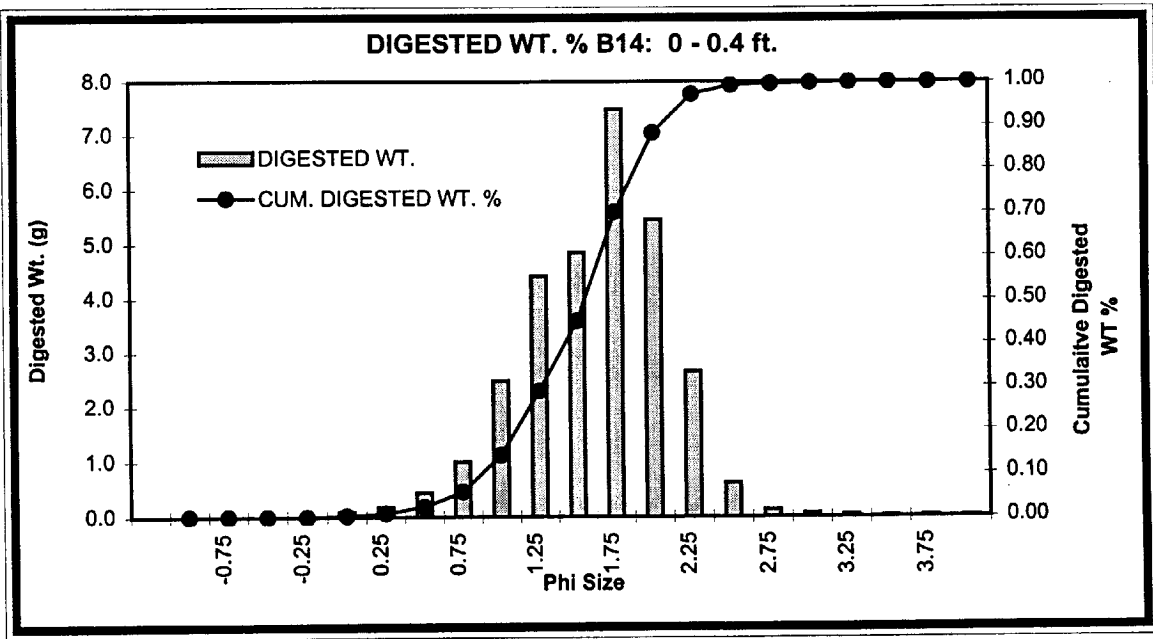


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B14: 0 - 0.4 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.8970	0	0.8970	0	0	0
-0.75	0.2000	0	0.2000	0	0	0
-0.50	0.3780	0	0.3780	0	0	0
-0.25	0.5650	0	0.5650	0	0	0
0.00	0.6900	0.0940	0.5960	0.0940	0.003134274	0.003134274
0.25	0.9610	0.1820	0.7790	0.2760	0.006068487	0.009202761
0.50	1.3850	0.4410	0.9440	0.7170	0.014704411	0.023907172
0.75	2.0120	1.0100	1.0020	1.7270	0.033676770	0.057583942
1.00	3.8650	2.4950	1.3700	4.2220	0.083191624	0.140775566
1.25	6.1530	4.4230	1.7300	8.6450	0.147477577	0.288253143
1.50	5.9210	4.8560	1.0650	13.5010	0.161915241	0.450168384
1.75	9.2470	7.4830	1.7640	20.9840	0.249508186	0.699676570
2.00	6.6930	5.4530	1.2400	26.4370	0.181821213	0.881497783
2.25	3.3910	2.6640	0.7270	29.1010	0.088826648	0.970324431
2.50	0.7820	0.6150	0.1670	29.7160	0.020506152	0.990830583
2.75	0.1430	0.1280	0.0150	29.8440	0.004267947	0.995098530
3.00	0.0630	0.0630	0	29.9070	0.002100630	0.997199160
3.25	0.0330	0.0330	0	29.9400	0.001100330	0.998299490
3.50	0.0230	0.0190	0.0040	29.9590	0.000633523	0.998933013
3.75	0.0190	0.0190	0	29.9780	0.000633523	0.999566537
4.00	0.0130	0.0130	0	29.9910	0.000433463	1

TOTAL WT. 43.4340 grams
DIGESTED WT. 29.9910 grams
% SILICA 69.0496

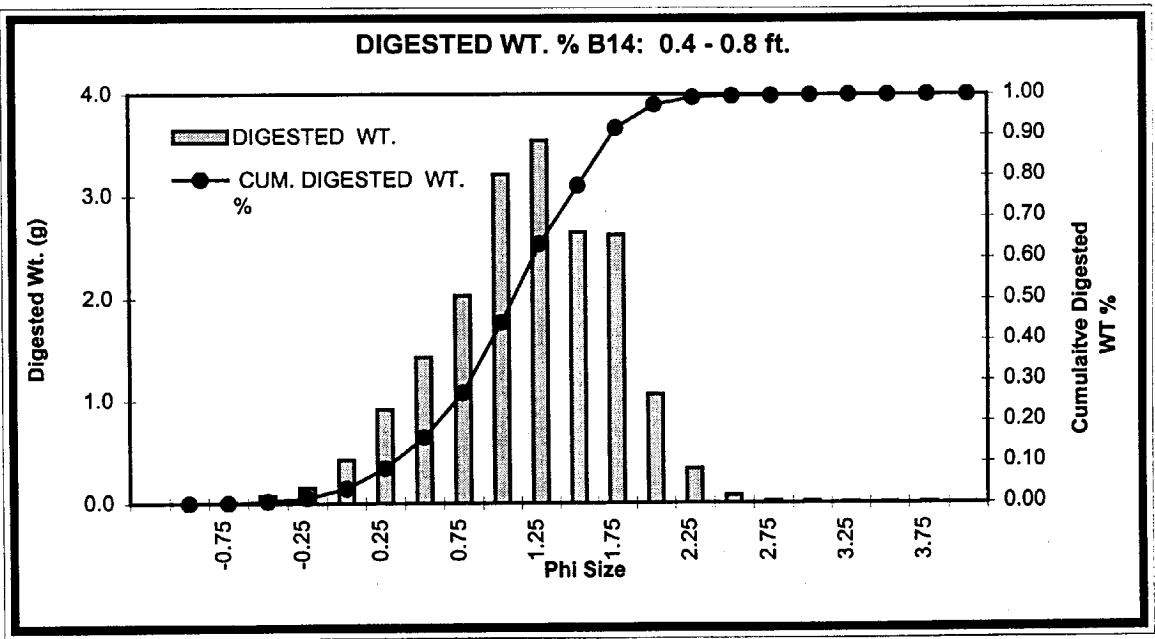


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B14: 0.4 - 0.8 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	2.8410	0	2.8410	0	0	0
-0.75	1.3880	0.0140	1.3740	0.0140	0.000751839	0.000751839
-0.50	2.2050	0.0750	2.1300	0.0890	0.004027711	0.004779550
-0.25	2.5640	0.1500	2.4140	0.2390	0.008055421	0.012834971
0.00	2.7250	0.4220	2.3030	0.6610	0.022662585	0.035497557
0.25	3.4990	0.9180	2.5810	1.5790	0.049299178	0.084796735
0.50	3.4120	1.4260	1.9860	3.0050	0.076580205	0.161376940
0.75	3.7750	2.0330	1.7420	5.0380	0.109177810	0.270554750
1.00	4.6990	3.2160	1.4830	8.2540	0.172708233	0.443262983
1.25	5.1610	3.5450	1.6160	11.7990	0.190376457	0.633639439
1.50	3.2980	2.6500	0.6480	14.4490	0.142312443	0.775951882
1.75	3.1640	2.6250	0.5390	17.0740	0.140969873	0.916921755
2.00	1.2030	1.0630	0.1400	18.1370	0.057086086	0.974007841
2.25	0.3520	0.3350	0.0170	18.4720	0.017990441	0.991998282
2.50	0.0740	0.0740	0	18.5460	0.003974008	0.995972289
2.75	0.0230	0.0230	0	18.5690	0.001235165	0.997207454
3.00	0.0200	0.0200	0	18.5890	0.001074056	0.998281510
3.25	0.0120	0.0120	0	18.6010	0.000644434	0.998925944
3.50	0.0100	0.0100	0	18.6110	0.000537028	0.999462972
3.75	0.0100	0.0100	0	18.6210	0.000537028	1
4.00	0	0	0	18.6210	0	1

TOTAL WT.	40.4350	grams
DIGESTED WT.	18.6210	grams
% SILICA	46.0517	

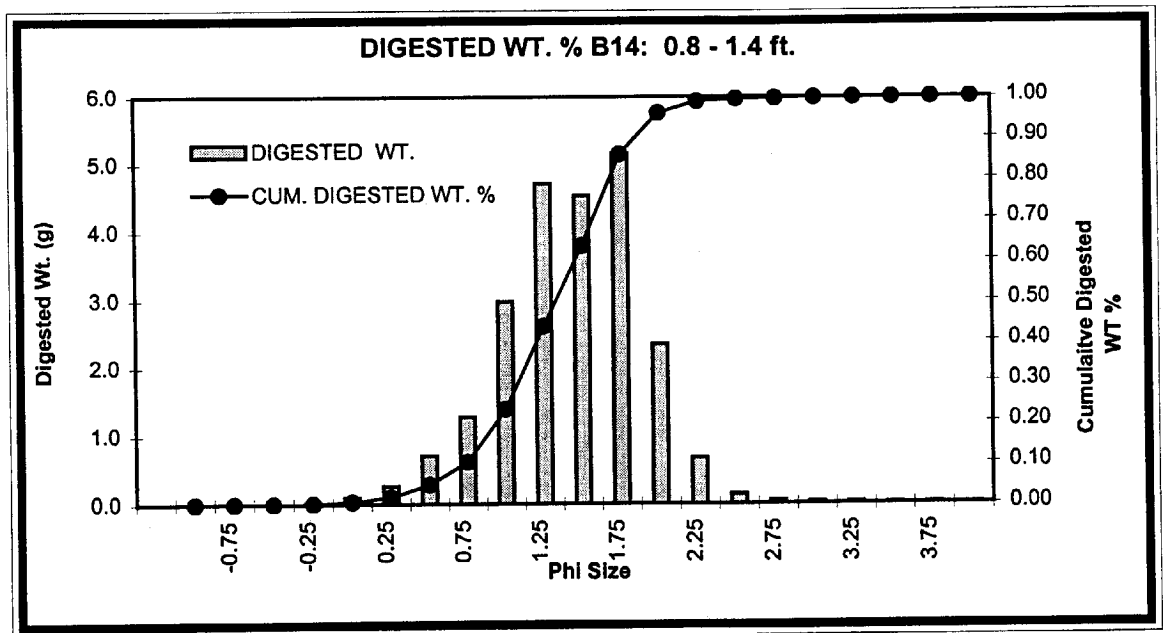


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B14: 0.8 - 1.4 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.1340	0	0.1340	0	0	0
-0.75	0.1850	0	0.1850	0	0	0
-0.50	0.3440	0.0020	0.3420	0.0020	0.000086802	0.000086802
-0.25	0.4270	0.0180	0.4090	0.0200	0.000781216	0.000868018
0.00	0.7640	0.0990	0.6650	0.1190	0.004296689	0.005164706
0.25	1.1630	0.2640	0.8990	0.3830	0.011457836	0.016622542
0.50	1.9390	0.7060	1.2330	1.0890	0.030641031	0.047263574
0.75	2.6290	1.2830	1.3460	2.3720	0.055683347	0.102946921
1.00	4.4680	2.9900	1.4780	5.3620	0.129768673	0.232715594
1.25	6.6110	4.7140	1.8970	10.0760	0.204591815	0.437307409
1.50	5.5260	4.5380	0.9880	14.6140	0.196953257	0.634260666
1.75	6.4210	5.1660	1.2550	19.7800	0.224209019	0.858469684
2.00	2.8700	2.3510	0.5190	22.1310	0.102035502	0.960505186
2.25	0.8280	0.6630	0.1650	22.7940	0.028774793	0.989279979
2.50	0.1740	0.1360	0.0380	22.9300	0.005902522	0.995182501
2.75	0.0440	0.0420	0.0020	22.9720	0.001822838	0.997005338
3.00	0.0260	0.0260	0	22.9980	0.001128423	0.998133762
3.25	0.0180	0.0180	0	23.0160	0.000781216	0.998914978
3.50	0.0110	0.0100	0.0010	23.0260	0.000434009	0.999348987
3.75	0.0110	0.0100	0.0010	23.0360	0.000434009	0.999782996
4.00	0.0050	0.0050	0	23.0410	0.000217004	1

TOTAL WT. 34.5980 grams
DIGESTED WT. 23.0410 grams
% SILICA 66.5963

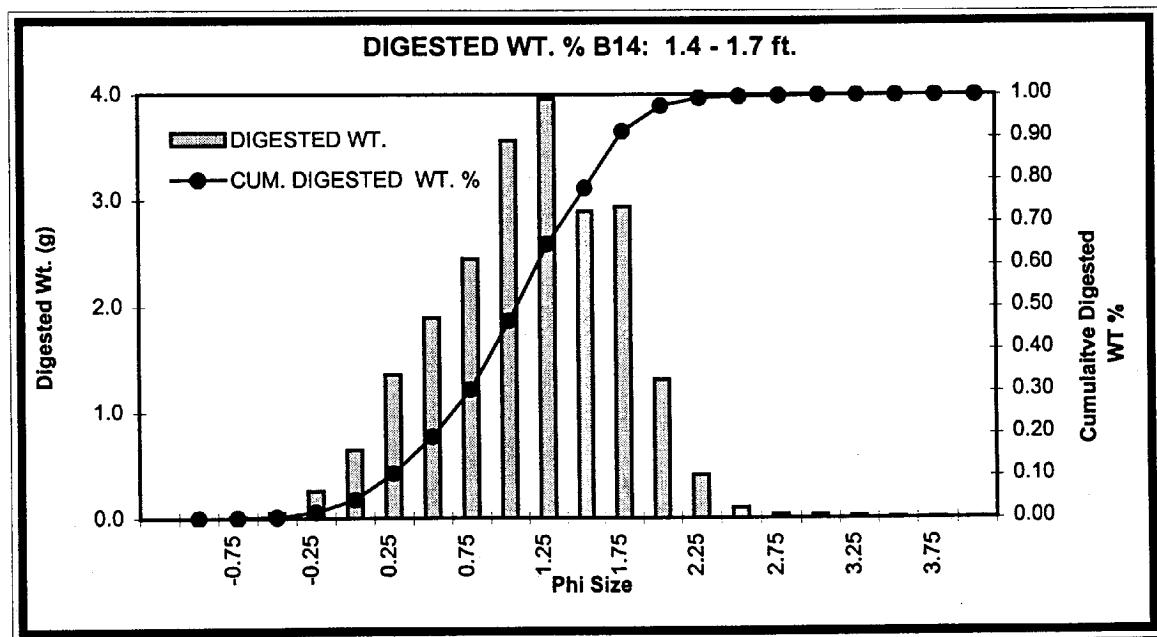


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B14: 1.4 - 1.7 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	1.0030	0	1.0030	0	0	0
-0.75	1.3130	0.0130	1.3000	0.0130	0.000592255	0.000592255
-0.50	2.2640	0.0510	2.2130	0.0640	0.002323462	0.002915718
-0.25	3.0220	0.2580	2.7640	0.3220	0.011753986	0.014669704
0.00	3.6380	0.6470	2.9910	0.9690	0.029476082	0.044145786
0.25	4.3700	1.3630	3.0070	2.3320	0.062095672	0.106241458
0.50	4.2420	1.8950	2.3470	4.2270	0.086332574	0.192574032
0.75	4.4970	2.4520	2.0450	6.6790	0.111708428	0.304282460
1.00	5.4030	3.5650	1.8380	10.2440	0.162414579	0.466697039
1.25	5.5090	3.9620	1.5470	14.2060	0.180501139	0.647198178
1.50	3.5660	2.8940	0.6720	17.1000	0.131845103	0.779043280
1.75	3.5300	2.9360	0.5940	20.0360	0.133758542	0.912801822
2.00	1.5340	1.3120	0.2220	21.3480	0.059772210	0.972574032
2.25	0.5120	0.4070	0.1050	21.7550	0.018542141	0.991116173
2.50	0.1160	0.0950	0.0210	21.8500	0.004328018	0.995444191
2.75	0.0320	0.0320	0	21.8820	0.001457859	0.996902050
3.00	0.0300	0.0290	0.0010	21.9110	0.001321185	0.998223235
3.25	0.0220	0.0210	0.0010	21.9320	0.000956720	0.999179954
3.50	0.0080	0.0080	0	21.9400	0.000364465	0.999544419
3.75	0.0060	0.0060	0	21.9460	0.000273349	0.999817768
4.00	0.0040	0.0040	0	21.9500	0.000182232	1

TOTAL WT. 44.6210 grams
DIGESTED WT. 21.9500 grams
% SILICA 49.1921

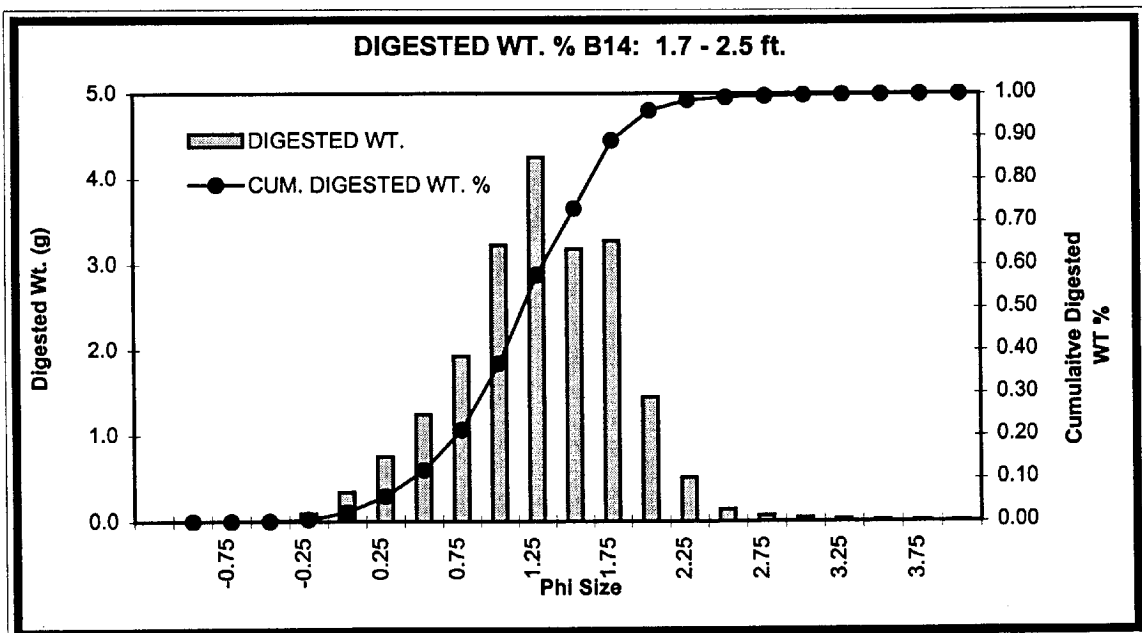


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B14: 1.7 - 2.5 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	1.2160	0	1.2160	0	0	0
-0.75	1.0000	0	1.0000	0	0	0
-0.50	1.4260	0.0170	1.4090	0.0170	0.000826406	0.000826406
-0.25	1.9330	0.0890	1.8440	0.1060	0.004326479	0.005152885
0.00	2.1880	0.3400	1.8480	0.4460	0.016528122	0.021681007
0.25	2.7270	0.7530	1.9740	1.1990	0.036604929	0.058285937
0.50	3.0360	1.2440	1.7920	2.4430	0.060473482	0.118759419
0.75	3.4890	1.9290	1.5600	4.3720	0.093772787	0.212532206
1.00	4.9350	3.2220	1.7130	7.5940	0.156628263	0.369160469
1.25	5.4050	4.2480	1.1570	11.8420	0.206504302	0.575664771
1.50	3.9700	3.1770	0.7930	15.0190	0.154440718	0.730105488
1.75	4.1070	3.2760	0.8310	18.2950	0.159253318	0.889358806
2.00	1.7720	1.4500	0.3220	19.7450	0.070487580	0.959846386
2.25	0.6530	0.5070	0.1460	20.2520	0.024646347	0.984492732
2.50	0.1790	0.1400	0.0390	20.3920	0.006805697	0.991298430
2.75	0.0640	0.0620	0.0020	20.4540	0.003013952	0.994312382
3.00	0.0420	0.0420	0	20.4960	0.002041709	0.996354091
3.25	0.0290	0.0290	0	20.5250	0.001409752	0.997763842
3.50	0.0200	0.0160	0.0040	20.5410	0.000777794	0.998541636
3.75	0.0220	0.0170	0.0050	20.5580	0.000826406	0.999368042
4.00	0.0140	0.0130	0.0010	20.5710	0.000631958	1

TOTAL WT. **38.2270** **grams**
DIGESTED WT. **20.5710** **grams**
% SILICA **53.8128**

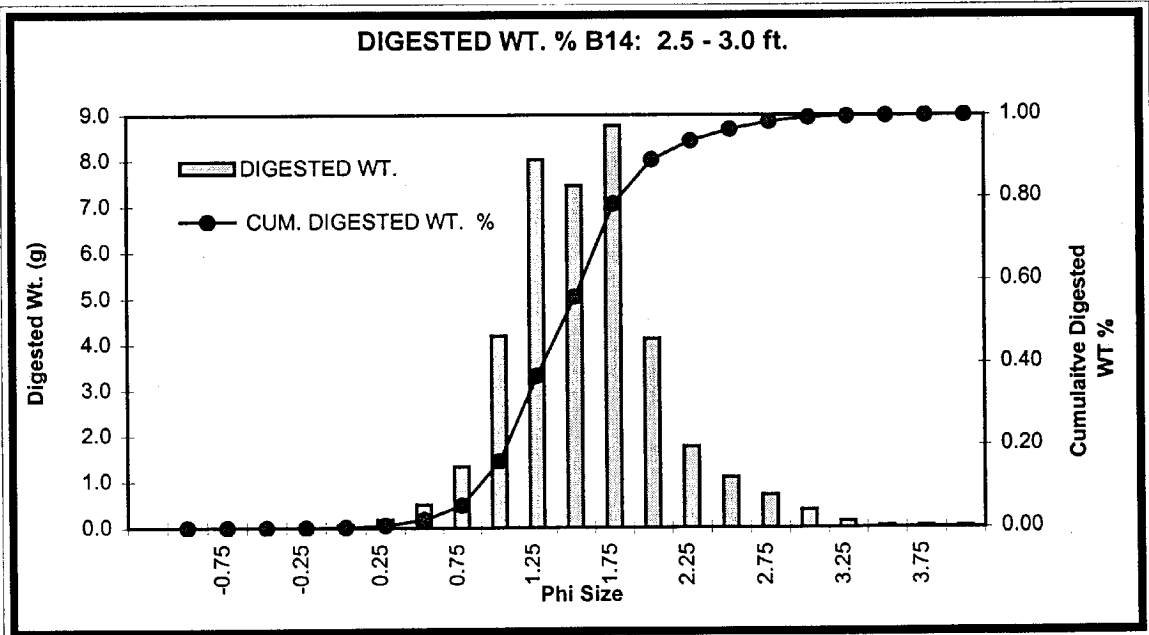


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B14: 2.5 - 3.0 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.2060	0	0.2060	0	0	0
-0.75	0.1500	0	0.1500	0	0	0
-0.50	0.2690	0	0.2690	0	0	0
-0.25	0.4110	0.0080	0.4030	0.0080	0.000205629	0.000205629
0.00	0.6200	0.0600	0.5600	0.0680	0.001542218	0.001747847
0.25	1.1780	0.1850	0.9930	0.2530	0.004755173	0.006503020
0.50	1.8150	0.5110	1.3040	0.7640	0.013134559	0.019637579
0.75	3.2320	1.3460	1.8860	2.1100	0.034597095	0.054234674
1.00	6.7040	4.1910	2.5130	6.3010	0.107723943	0.161958617
1.25	11.5300	8.0280	3.5020	14.3290	0.206348798	0.368307415
1.50	9.8170	7.4500	2.3670	21.7790	0.191492096	0.559799512
1.75	11.6820	8.7610	2.9210	30.5400	0.225189564	0.784989076
2.00	5.3760	4.1320	1.2440	34.6720	0.106207428	0.891196504
2.25	2.2610	1.7720	0.4890	36.4440	0.045546845	0.936743349
2.50	1.2030	1.1000	0.1030	37.5440	0.028274001	0.965017350
2.75	0.7610	0.7200	0.0410	38.2640	0.018506619	0.983523969
3.00	0.3910	0.3910	0	38.6550	0.010050122	0.993574091
3.25	0.1420	0.1420	0	38.7970	0.003649916	0.997224007
3.50	0.0420	0.0420	0	38.8390	0.001079553	0.998303560
3.75	0.0440	0.0380	0.0060	38.8770	0.000976738	0.999280298
4.00	0.0320	0.0280	0.0040	38.9050	0.000719702	1

TOTAL WT. 57.8660 grams
DIGESTED WT. 38.9050 grams
% SILICA 67.2329

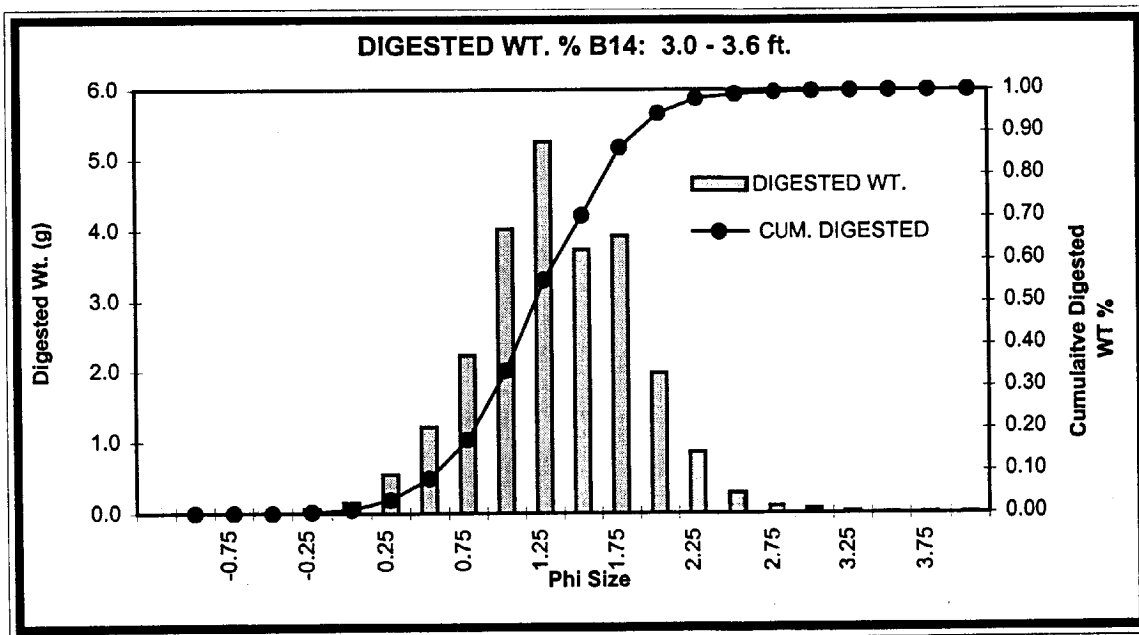


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE 14: 3.0 - 3.6 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED
-1.00	0.2440	0	0.2440	0	0	0
-0.75	0.2840	0	0.2840	0	0	0
-0.50	0.5130	0.0040	0.5090	0.0040	0.000162946	0.000162946
-0.25	1.0760	0.0690	1.0070	0.0730	0.002810820	0.002973766
0.00	1.5470	0.1520	1.3950	0.2250	0.006191950	0.009165716
0.25	2.4930	0.5510	1.9420	0.7760	0.022445820	0.031611537
0.50	3.2560	1.2200	2.0360	1.9960	0.049698550	0.081310086
0.75	4.1420	2.2390	1.9030	4.2350	0.091209060	0.172519146
1.00	6.0510	4.0270	2.0240	8.2620	0.164045951	0.336565097
1.25	7.0190	5.2640	1.7550	13.5260	0.214437021	0.551002118
1.50	4.9620	3.7280	1.2340	17.2540	0.151865732	0.702867851
1.75	5.0340	3.9250	1.1090	21.1790	0.159890826	0.862758677
2.00	2.4790	1.9860	0.4930	23.1650	0.080902721	0.943661398
2.25	1.0390	0.8650	0.1740	24.0300	0.035237087	0.978898485
2.50	0.3470	0.2850	0.0620	24.3150	0.011609907	0.990508392
2.75	0.1120	0.1020	0.0100	24.4170	0.004155125	0.994663516
3.00	0.0630	0.0630	0.0000	24.4800	0.002566401	0.997229917
3.25	0.0370	0.0330	0.0040	24.5130	0.001344305	0.998574222
3.50	0.0170	0.0150	0.0020	24.5280	0.000611048	0.999185270
3.75	0.0180	0.0130	0.0050	24.5410	0.000529575	0.999714844
4.00	0.0080	0.0070	0.0010	24.5480	0.000285156	1

TOTAL WT. 40.7410 grams
DIGESTED WT. 24.5480 grams
% SILICA 60.2538

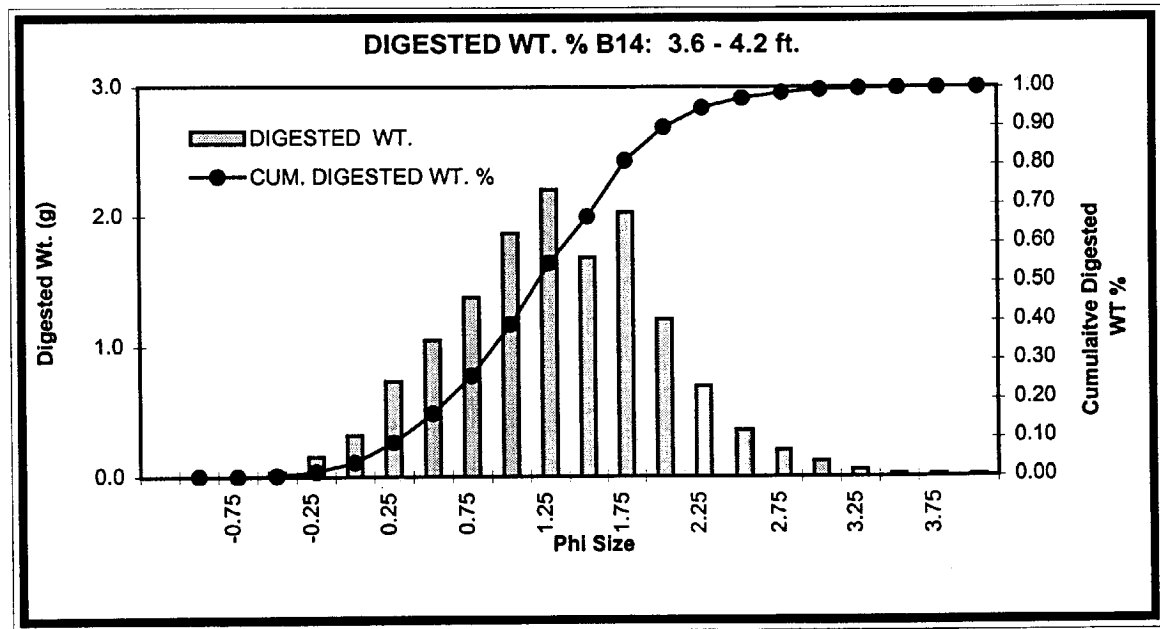


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B14: 3.6 - 4.2 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	10.2880	0	10.2880	0	0	0
-0.75	2.2190	0	2.2190	0	0	0
-0.50	2.2390	0.0350	2.2040	0.0350	0.002470705	0.002470705
-0.25	2.4040	0.1530	2.2510	0.1880	0.010800508	0.013271213
0.00	2.3850	0.3220	2.0630	0.5100	0.022730481	0.036001694
0.25	2.6300	0.7380	1.8920	1.2480	0.052096569	0.088098263
0.50	2.6550	1.0540	1.6010	2.3020	0.074403501	0.162501765
0.75	2.5650	1.3830	1.1820	3.6850	0.097628124	0.260129888
1.00	2.9740	1.8710	1.1030	5.5560	0.132076804	0.392206692
1.25	3.2140	2.2070	1.0070	7.7630	0.155795567	0.548002259
1.50	2.2940	1.6860	0.6080	9.4490	0.119017366	0.667019624
1.75	2.6620	2.0310	0.6310	11.4800	0.143371453	0.810391077
2.00	1.4820	1.2120	0.2700	12.6920	0.085556967	0.895948045
2.25	0.7860	0.6990	0.0870	13.3910	0.049343499	0.945291543
2.50	0.3790	0.3620	0.0170	13.7530	0.025554144	0.970845687
2.75	0.2010	0.2010	0	13.9540	0.014188903	0.985034590
3.00	0.1180	0.1180	0	14.0720	0.008329804	0.993364394
3.25	0.0500	0.0500	0	14.1220	0.003529578	0.996893971
3.50	0.0180	0.0180	0	14.1400	0.001270648	0.998164620
3.75	0.0760	0.0140	0.0620	14.1540	0.000988282	0.999152901
4.00	0.0140	0.0120	0.0020	14.1660	0.000847099	1

TOTAL WT.	41.653	grams
DIGESTED WT.	14.166	grams
% SILICA	34.009555	

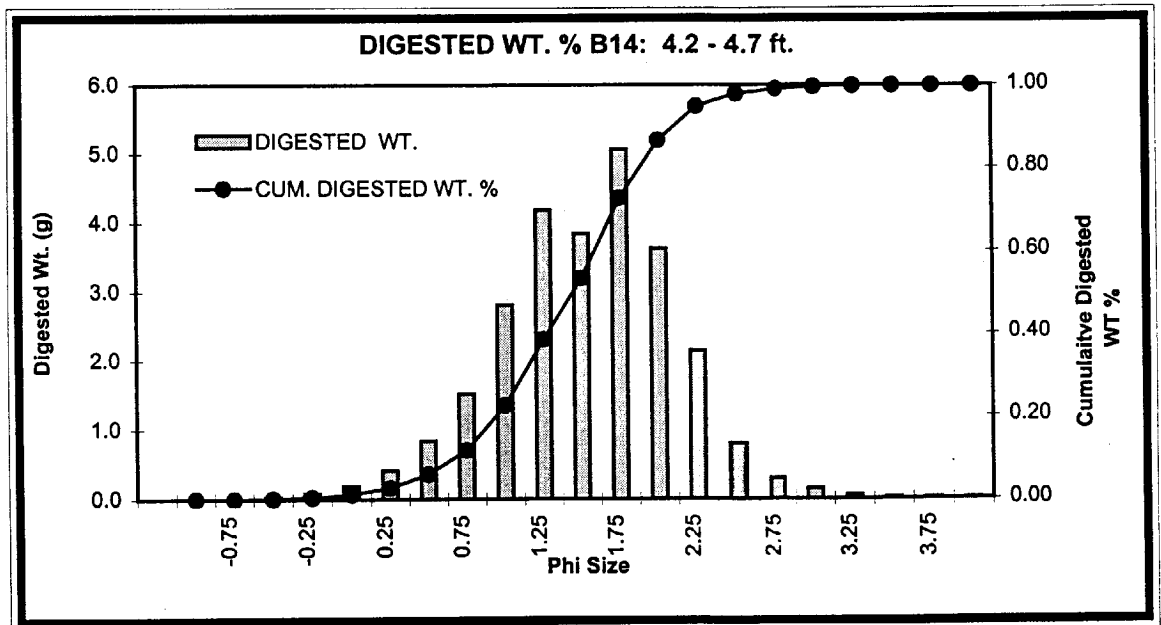


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B14: 4.2 - 4.7 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	21.1040	0	21.1040	0	0	0
-0.75	2.3500	0	2.3500	0	0	0
-0.50	1.8780	0.0310	1.8470	0.0310	0.001185332	0.001185332
-0.25	1.9130	0.0880	1.8250	0.1190	0.003364815	0.004550147
0.00	1.7740	0.1970	1.5770	0.3160	0.007532597	0.012082744
0.25	2.0200	0.4210	1.5990	0.7370	0.016097580	0.028180323
0.50	2.2450	0.8380	1.4070	1.5750	0.032042213	0.060222537
0.75	2.8640	1.5230	1.3410	3.0980	0.058234237	0.118456774
1.00	4.4120	2.8170	1.5950	5.9150	0.107712308	0.226169082
1.25	5.9090	4.1890	1.7200	10.1040	0.160172829	0.386341911
1.50	4.9210	3.8510	1.0700	13.9550	0.147248882	0.533590793
1.75	6.5560	5.0670	1.4890	19.0220	0.193744503	0.727335296
2.00	4.4410	3.6370	0.8040	22.6590	0.139066264	0.866401560
2.25	2.5890	2.1480	0.4410	24.8070	0.082132069	0.948533629
2.50	1.0160	0.8040	0.2120	25.6110	0.030742171	0.979275800
2.75	0.3530	0.2980	0.0550	25.9090	0.011394486	0.990670286
3.00	0.1570	0.1430	0.0140	26.0520	0.005467824	0.996138110
3.25	0.0640	0.0550	0.0090	26.1070	0.002103009	0.998241120
3.50	0.0280	0.0190	0.0090	26.1260	0.000726494	0.998967614
3.75	0.0260	0.0160	0.0100	26.1420	0.000611784	0.999579398
4.00	0.0180	0.0110	0.0070	26.1530	0.000420602	1

TOTAL WT. 66.6380 grams
DIGESTED WT. 26.1530 grams
% SILICA 39.2464

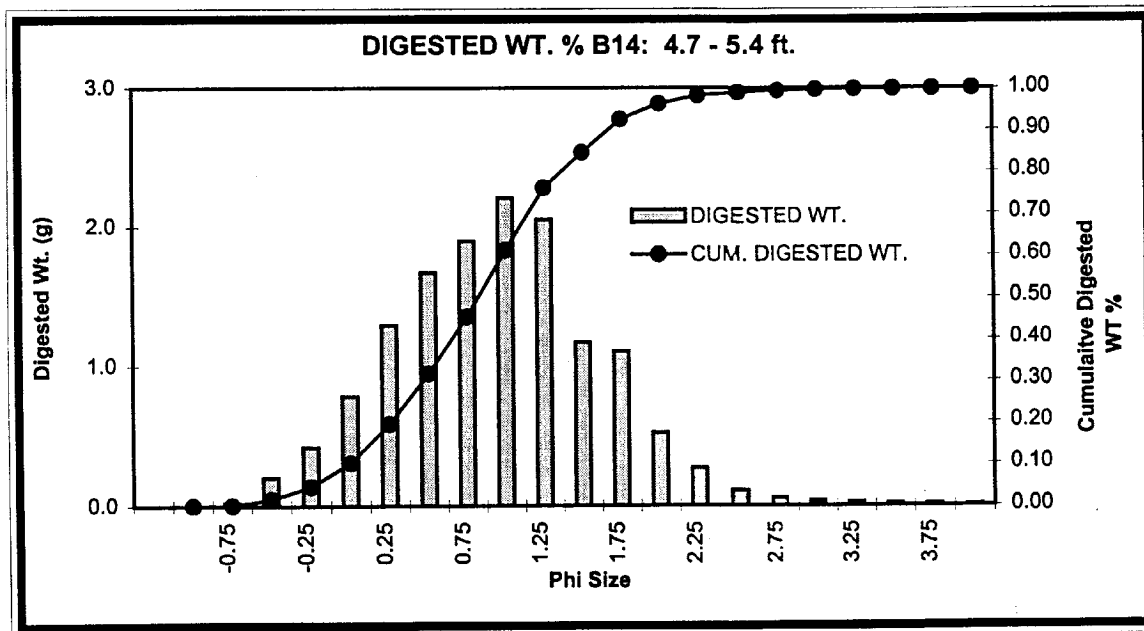


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B14: 4.7 - 5.4 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT.
-1.00	7.5280	0	7.5280	0	0	0
-0.75	3.9140	0.0200	3.8940	0.0200	0.001439781	0.001439781
-0.50	4.7950	0.2020	4.5930	0.2220	0.014541790	0.015981571
-0.25	4.7600	0.4170	4.3430	0.6390	0.030019437	0.046001008
0.00	4.2720	0.7820	3.4900	1.4210	0.056295443	0.102296451
0.25	4.4060	1.2980	3.1080	2.7190	0.093441797	0.195738248
0.50	3.8750	1.6770	2.1980	4.3960	0.120725650	0.316463897
0.75	3.5290	1.9010	1.6280	6.2970	0.136851199	0.453315096
1.00	3.5450	2.2090	1.3360	8.5060	0.159023828	0.612338924
1.25	2.9430	2.0550	0.8880	10.5610	0.147937513	0.760276438
1.50	1.5600	1.1760	0.3840	11.7370	0.084659132	0.844935570
1.75	1.3760	1.1110	0.2650	12.8480	0.079979843	0.924915413
2.00	0.6210	0.5220	0.0990	13.3700	0.037578288	0.962493701
2.25	0.2980	0.2680	0.0300	13.6380	0.019293067	0.981786768
2.50	0.1190	0.1080	0.0110	13.7460	0.007774818	0.989561587
2.75	0.0530	0.0530	0	13.7990	0.003815420	0.993377007
3.00	0.0340	0.0340	0	13.8330	0.002447628	0.995824635
3.25	0.0250	0.0250	0	13.8580	0.001799726	0.997624361
3.50	0.0130	0.0130	0	13.8710	0.000935858	0.998560219
3.75	0.0160	0.0120	0.0040	13.8830	0.000863869	0.999424088
4.00	0.0120	0.0080	0.0040	13.8910	0.000575912	1

TOTAL WT. 47.6940 grams
 DIGESTED WT. 13.8910 grams
 % SILICA 29.1253

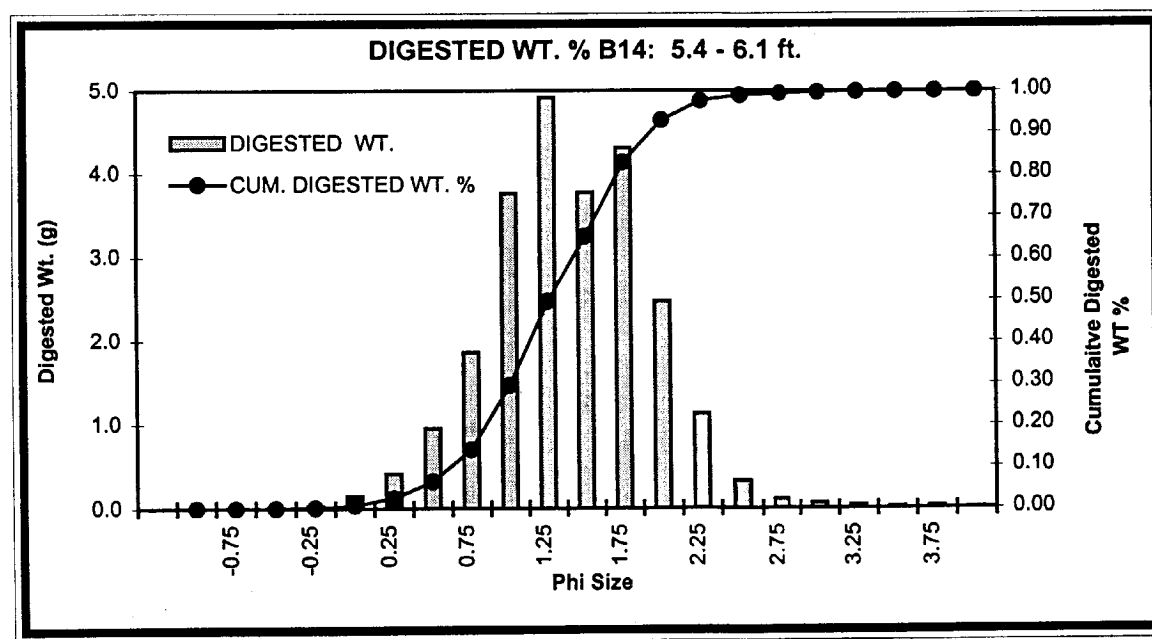


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B14: 5.4 - 6.1 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.3980	0	0.3980	0	0	0
-0.75	0.3930	0.0030	0.3900	0.0030	0.000122815	0.000122815
-0.50	0.6510	0.0090	0.6420	0.0120	0.000368445	0.000491260
-0.25	1.0690	0.0360	1.0330	0.0480	0.001473779	0.001965039
0.00	1.4950	0.1550	1.3400	0.2030	0.006345437	0.008310476
0.25	2.0940	0.4120	1.6820	0.6150	0.016866582	0.025177058
0.50	2.5890	0.9590	1.6300	1.5740	0.039259835	0.064436894
0.75	3.6530	1.8680	1.7850	3.4420	0.076472756	0.140909649
1.00	5.6960	3.7670	1.9290	7.2090	0.154214599	0.295124248
1.25	6.8210	4.9140	1.9070	12.1230	0.201170836	0.496295083
1.50	4.9520	3.7800	1.1720	15.9030	0.154746797	0.651041880
1.75	5.4950	4.3140	1.1810	20.2170	0.176607852	0.827649732
2.00	3.0500	2.4840	0.5660	22.7010	0.101690752	0.929340484
2.25	1.4710	1.1310	0.3400	23.8320	0.046301224	0.975641708
2.50	0.5090	0.3260	0.1830	24.1580	0.013345888	0.988987596
2.75	0.1620	0.1070	0.0550	24.2650	0.004380399	0.993367994
3.00	0.0960	0.0610	0.0350	24.3260	0.002497237	0.995865231
3.25	0.0630	0.0400	0.0230	24.3660	0.001637532	0.997502763
3.50	0.0390	0.0220	0.0170	24.3880	0.000900643	0.998403406
3.75	0.0410	0.0260	0.0150	24.4140	0.001064396	0.999467802
4.00	0.0320	0.0130	0.0190	24.4270	0.000532198	1

TOTAL WT. 40.7690 grams
DIGESTED WT. 24.4270 grams
% SILICA 59.9156

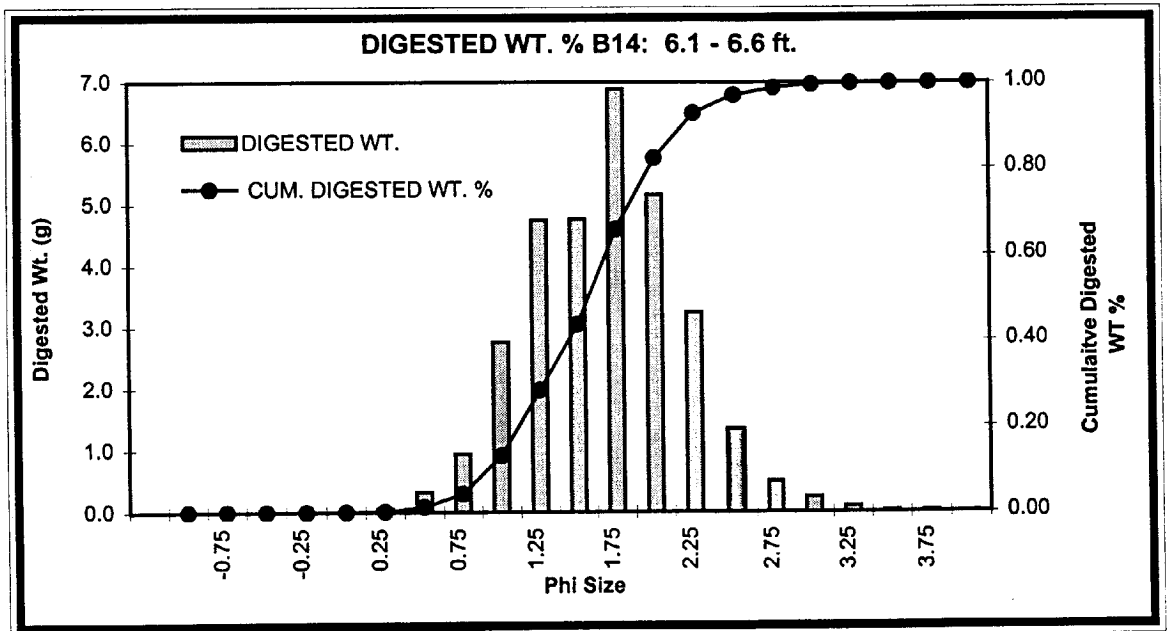


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B14: 6.1 - 6.6 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.2390	0	0.2390	0	0	0
-0.75	0.0230	0	0.0230	0	0	0
-0.50	0.0980	0	0.0980	0	0	0
-0.25	0.1920	0	0.1920	0	0	0
0.00	0.3540	0.0130	0.3410	0.0130	0.000416453	0.000416453
0.25	0.5890	0.0610	0.5280	0.0740	0.001954126	0.002370579
0.50	1.1530	0.3280	0.8250	0.4020	0.010507432	0.012878011
0.75	2.0120	0.9460	1.0660	1.3480	0.030304972	0.043182983
1.00	4.0870	2.7720	1.3150	4.1200	0.088800615	0.131983598
1.25	7.2160	4.7480	2.4680	8.8680	0.152101486	0.284085085
1.50	6.4330	4.7680	1.6650	13.6360	0.152742183	0.436827268
1.75	9.0030	6.8920	2.1110	20.5280	0.220784213	0.657611481
2.00	6.2710	5.1600	1.1110	25.6880	0.165299846	0.822911328
2.25	3.8840	3.2550	0.6290	28.9430	0.104273450	0.927184777
2.50	1.5820	1.3500	0.2320	30.2930	0.043247053	0.970431830
2.75	0.5630	0.5020	0.0610	30.7950	0.016081497	0.986513326
3.00	0.2730	0.2480	0.0250	31.0430	0.007944644	0.994457970
3.25	0.1140	0.0990	0.0150	31.1420	0.003171451	0.997629421
3.50	0.0390	0.0320	0.0070	31.1740	0.001025115	0.998654536
3.75	0.0340	0.0280	0.0060	31.2020	0.000896976	0.999551512
4.00	0.0220	0.0140	0.0080	31.2160	0.000448488	1

TOTAL WT. 44.1810 grams
 DIGESTED WT. 31.2160 grams
 % SILICA 70.6548

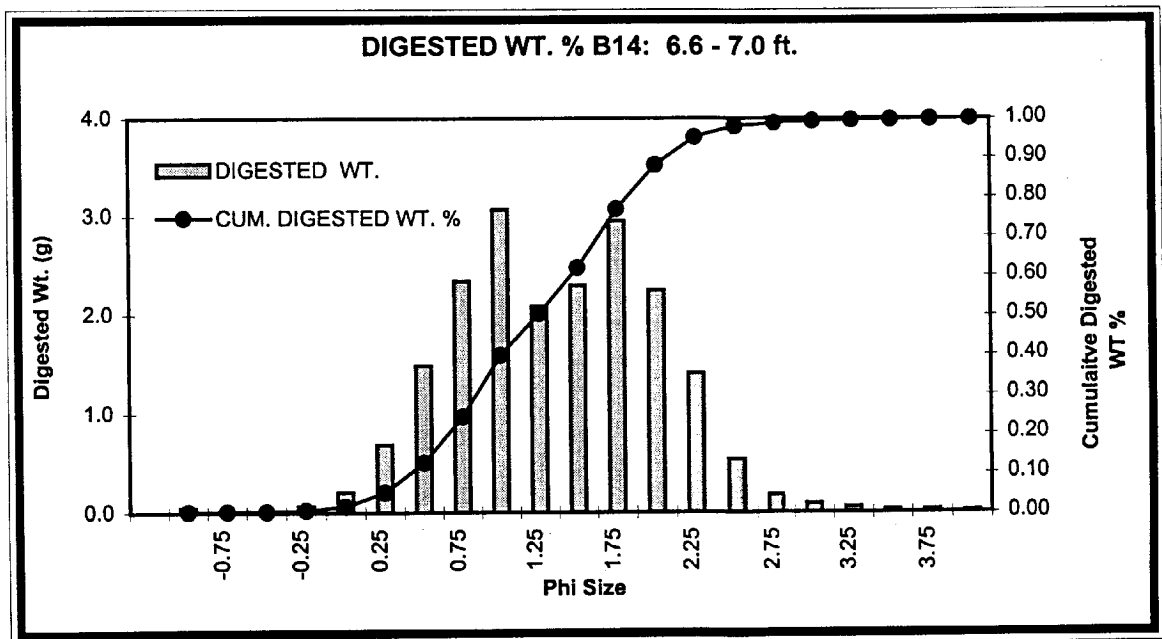


GRAIN SIZE DISTRIBUTION CHART

CORE B14: 6.6 - 7.0 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.2050	0.0500	0.1550	0.0500	0.002517623	0.002517623
-0.75	0.3100	0.0090	0.3010	0.0590	0.000453172	0.002970796
-0.50	0.9310	0	0.9310	0.0590	0	0.002970796
-0.25	1.5800	0.0670	1.5130	0.1260	0.003373615	0.006344411
0.00	2.1550	0.2050	1.9500	0.3310	0.010322256	0.016666667
0.25	3.3850	0.6890	2.6960	1.0200	0.034692850	0.051359517
0.50	4.0250	1.4910	2.5340	2.5110	0.075075529	0.126435045
0.75	4.7780	2.3480	2.4300	4.8590	0.118227593	0.244662638
1.00	5.4250	3.0690	2.3560	7.9280	0.154531722	0.399194361
1.25	2.0870	2.0870	0.0000	10.0150	0.105085599	0.504279960
1.50	5.3370	2.3020	3.0350	12.3170	0.115911380	0.620191339
1.75	3.3240	2.9500	0.3740	15.2670	0.148539778	0.768731118
2.00	4.0730	2.2480	1.8250	17.5150	0.113192346	0.881923464
2.25	2.8910	1.4110	1.4800	18.9260	0.071047331	0.952970796
2.50	1.8820	0.5370	1.3450	19.4630	0.027039275	0.980010070
2.75	0.7090	0.1770	0.5320	19.6400	0.008912387	0.988922457
3.00	0.3280	0.0880	0.2400	19.7280	0.004431017	0.993353474
3.25	0.0920	0.0530	0.0390	19.7810	0.002668681	0.996022155
3.50	0.0440	0.0290	0.0150	19.8100	0.001460222	0.997482377
3.75	0.0620	0.0300	0.0320	19.8400	0.001510574	0.998992951
4.00	0.0390	0.0200	0.0190	19.8600	0.001007049	1

TOTAL WT. 43.6620 grams
DIGESTED WT. 19.8600 grams
% SILICA 45.4858



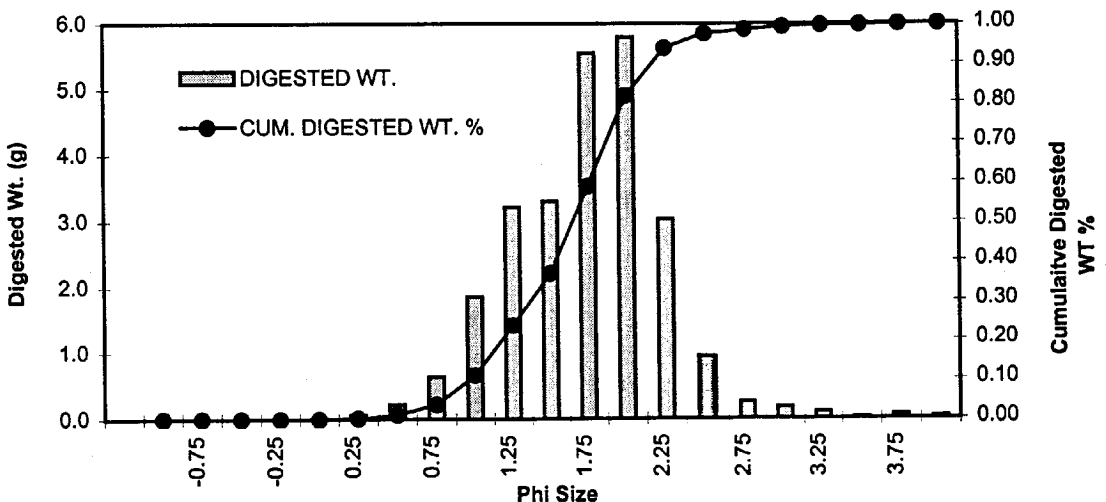
POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B14: 7.0 - 8.1 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0	0	0	0	0	0
-0.75	0.0190	0	0.0190	0	0	0
-0.50	0.0950	0	0.0950	0	0	0
-0.25	0.2260	0.0020	0.2240	0.0020	0.000079064	0.000079064
0.00	0.4940	0.0080	0.4860	0.0100	0.000316256	0.000395319
0.25	0.9440	0.0620	0.8820	0.0720	0.002450980	0.002846300
0.50	1.4660	0.2240	1.2420	0.2960	0.008855155	0.011701455
0.75	2.9950	0.6420	2.3530	0.9380	0.025379507	0.037080961
1.00	4.8950	1.8640	3.0310	2.8020	0.073687540	0.110768501
1.25	4.4270	3.2210	1.2060	6.0230	0.127332385	0.238100886
1.50	7.2230	3.3030	3.9200	9.3260	0.130574004	0.368674889
1.75	7.0820	5.5510	1.5310	14.8770	0.219441809	0.588116698
2.00	6.2560	5.7900	0.4660	20.6670	0.228889943	0.817006641
2.25	3.0350	3.0350	0	23.7020	0.119979443	0.936986085
2.50	0.9500	0.9500	0	24.6520	0.037555345	0.974541429
2.75	0.2560	0.2560	0	24.9080	0.010120177	0.984661607
3.00	0.1750	0.1750	0	25.0830	0.006918090	0.991579696
3.25	0.1050	0.1050	0	25.1880	0.004150854	0.995730550
3.50	0.0230	0.0230	0	25.2110	0.000909235	0.996639785
3.75	0.1060	0.0580	0.0480	25.2690	0.002292853	0.998932638
4.00	0.0390	0.0270	0.0120	25.2960	0.001067362	1

TOTAL WT. 40.8110 grams
 DIGESTED WT. 25.2960 grams
 % SILICA 61.9833

DIGESTED WT. % B14: 7.0 - 8.1 ft

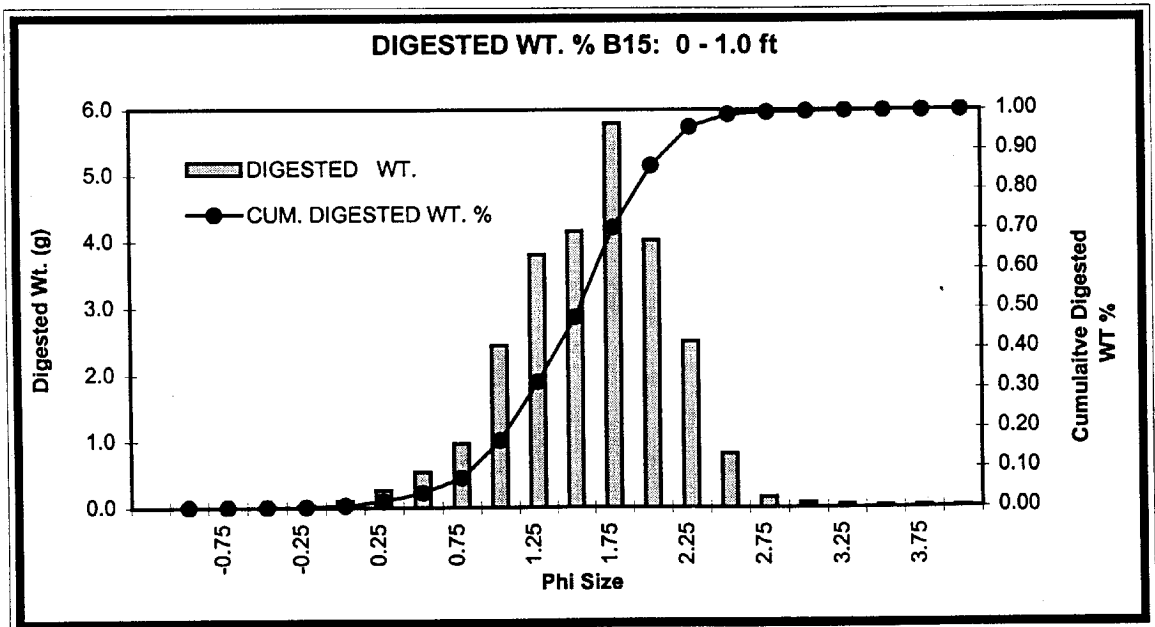


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B15: 0 - 1.0 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.1240	0	0.1240	0	0	0
-0.75	0.2710	0	0.2710	0.0000	0	0
-0.50	0.4900	0.0130	0.4770	0.0130	0.000504091	0.000504091
-0.25	0.8070	0.0360	0.7710	0.0490	0.001395944	0.001900035
0.00	1.0870	0.1050	0.9820	0.1540	0.004071503	0.005971538
0.25	1.4520	0.2670	1.1850	0.4210	0.010353251	0.016324790
0.50	1.6440	0.5320	1.1120	0.9530	0.020628950	0.036953740
0.75	2.2610	0.9680	1.2930	1.9210	0.037535383	0.074489123
1.00	3.8840	2.4430	1.4410	4.3640	0.094730311	0.169219435
1.25	5.8260	3.8090	2.0170	8.1730	0.147698631	0.316918066
1.50	5.2600	4.1620	1.0980	12.3350	0.161386638	0.478304704
1.75	7.2500	5.7930	1.4570	18.1280	0.224630656	0.702935360
2.00	4.9530	4.0280	0.9250	22.1560	0.156190624	0.859125984
2.25	2.9770	2.5070	0.4700	24.6630	0.097211990	0.956337974
2.50	1.0440	0.8060	0.2380	25.4690	0.031253635	0.987591609
2.75	0.2180	0.1500	0.0680	25.6190	0.005816433	0.993408042
3.00	0.0750	0.0660	0.0090	25.6850	0.002559231	0.995967273
3.25	0.0370	0.0370	0.0000	25.7220	0.001434720	0.997401993
3.50	0.0270	0.0240	0.0030	25.7460	0.000930629	0.998332622
3.75	0.0310	0.0260	0.0050	25.7720	0.001008182	0.999340804
4.00	0.0200	0.0170	0.0030	25.7890	0.000659196	1

TOTAL WT. 39.7380 grams
DIGESTED WT. 25.7890 grams
% SILICA 64.8976

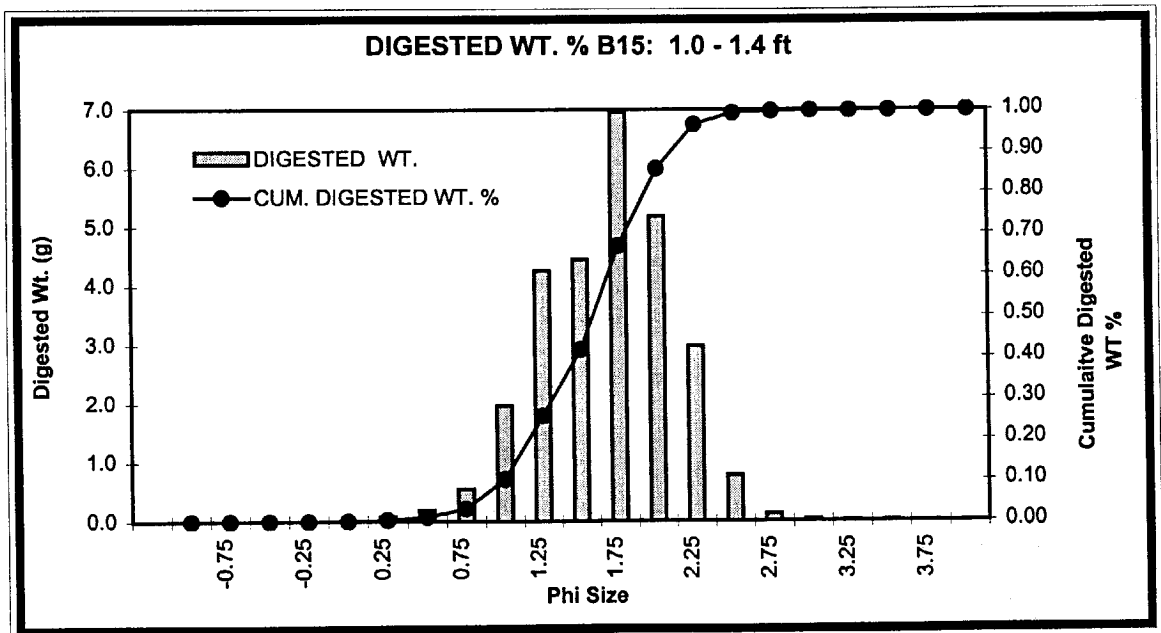


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B15: 1.0 - 1.4 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0	0	0	0	0	0
-0.75	0.0380	0	0.0380	0	0	0
-0.50	0.0960	0	0.0960	0	0	0
-0.25	0.1830	0	0.1830	0	0	0
0.00	0.3060	0.0240	0.2820	0.0240	0.000867930	0.000867930
0.25	0.5150	0.0860	0.4290	0.1100	0.003110082	0.003978012
0.50	0.8130	0.1910	0.6220	0.3010	0.006907276	0.010885289
0.75	1.5540	0.5540	1.0000	0.8550	0.020034717	0.030920006
1.00	3.3680	1.9740	1.3940	2.8290	0.071387241	0.102307247
1.25	6.2200	4.2640	1.9560	7.0930	0.154202228	0.256509475
1.50	5.8280	4.4510	1.3770	11.5440	0.160964849	0.417474324
1.75	8.4460	6.9500	1.4960	18.4940	0.251338059	0.668812382
2.00	6.1130	5.1830	0.9300	23.6770	0.187436713	0.856249096
2.25	3.4790	2.9770	0.5020	26.6540	0.107659482	0.963908578
2.50	0.9460	0.7810	0.1650	27.4350	0.028243888	0.992152466
2.75	0.1360	0.1260	0.0100	27.5610	0.004556632	0.996709099
3.00	0.0380	0.0380	0	27.5990	0.001374222	0.998083321
3.25	0.0160	0.0160	0	27.6150	0.000578620	0.998661941
3.50	0.0210	0.0210	0	27.6360	0.000759439	0.999421380
3.75	0.0100	0.0100	0	27.6460	0.000361637	0.999783018
4.00	0.0060	0.0060	0	27.6520	0.000216982	1

TOTAL WT. 38.1320 grams
DIGESTED WT. 27.6520 grams
% SILICA 72.5165

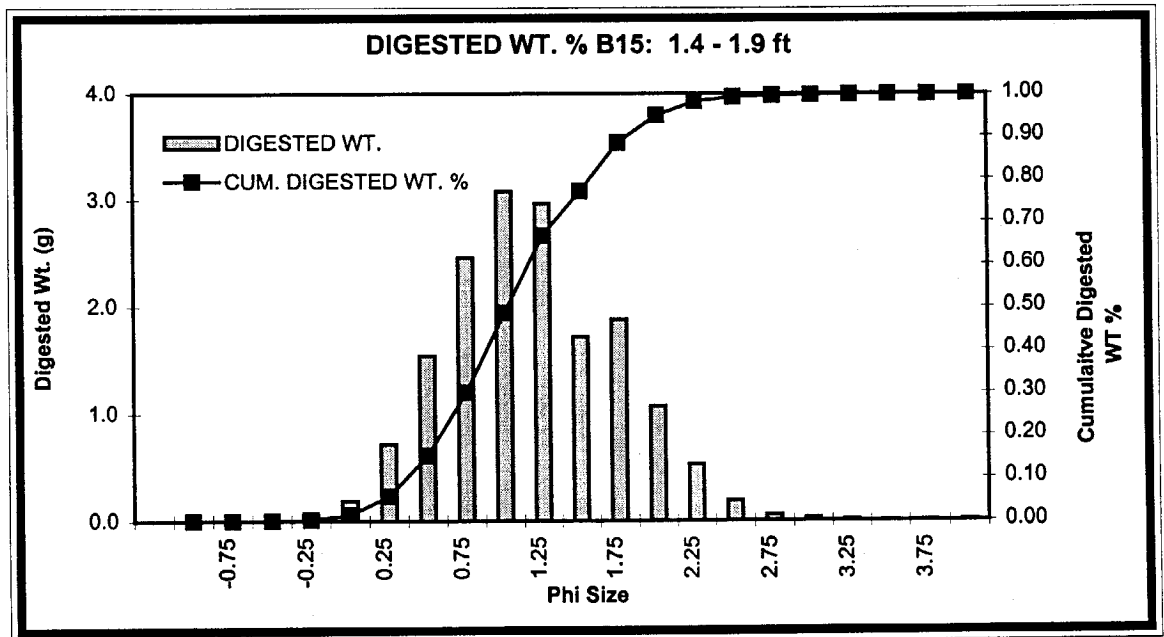


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B15: 1.4 - 1.9 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.1940	0	0.1940	0	0	0
-0.75	0.2650	0	0.2650	0	0	0
-0.50	0.7970	0	0.7970	0	0	0
-0.25	1.5190	0.0600	1.4590	0.0600	0.003630862	0.003630862
0.00	2.3630	0.1880	2.1750	0.2480	0.011376702	0.015007564
0.25	3.9480	0.7130	3.2350	0.9610	0.043146747	0.058154312
0.50	4.8920	1.5440	3.3480	2.5050	0.093434191	0.151588502
0.75	5.2280	2.4570	2.7710	4.9620	0.148683812	0.300272315
1.00	5.4740	3.0780	2.3960	8.0400	0.186263238	0.486535552
1.25	4.4620	2.9630	1.4990	11.0030	0.179304085	0.665839637
1.50	2.3690	1.7240	0.6450	12.7270	0.104326778	0.770166415
1.75	2.2920	1.8840	0.4080	14.6110	0.114009077	0.884175492
2.00	1.2930	1.0730	0.2200	15.6840	0.064931921	0.949107413
2.25	0.6350	0.5270	0.1080	16.2110	0.031891074	0.980998487
2.50	0.2240	0.1850	0.0390	16.3960	0.011195159	0.992193646
2.75	0.0630	0.0560	0.0070	16.4520	0.003388805	0.995582451
3.00	0.0340	0.0290	0.0050	16.4810	0.001754917	0.997337368
3.25	0.0170	0.0170	0	16.4980	0.001028744	0.998366112
3.50	0.0090	0.0090	0	16.5070	0.000544629	0.998910741
3.75	0.0100	0.0100	0	16.5170	0.000605144	0.999515885
4.00	0.0080	0.0080	0	16.5250	0.000484115	1

TOTAL WT. 36.0960 grams
DIGESTED WT. 16.5250 grams
SAMPLE % SILICA 45.7807

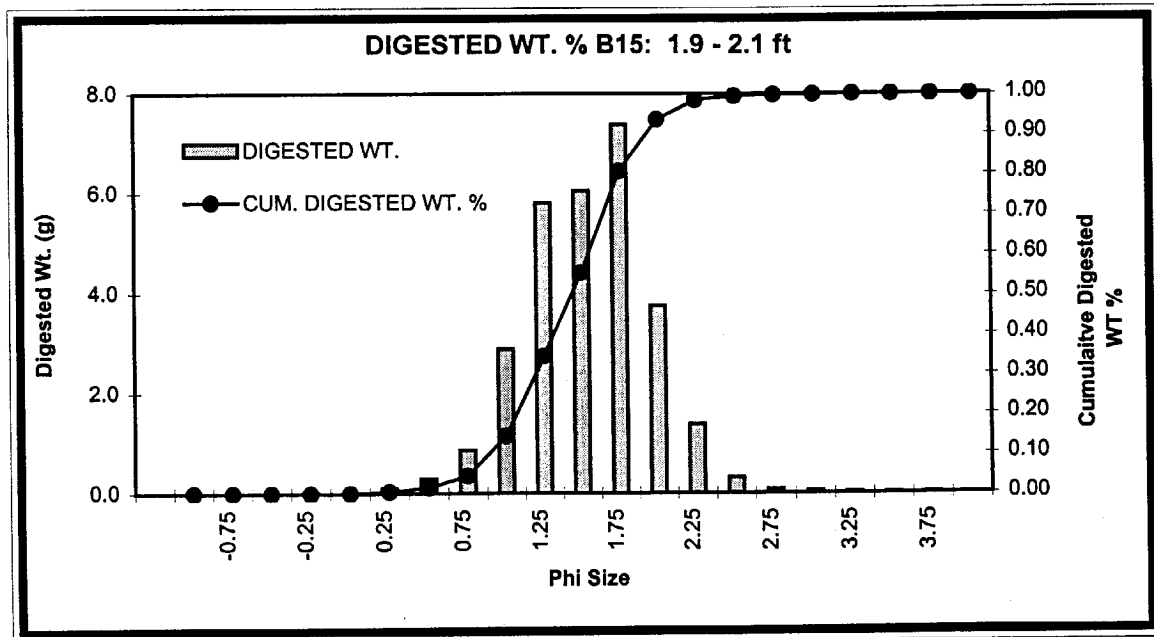


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B15: 1.9 - 2.1 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.0280	0	0.0280	0	0	0
-0.75	0.0460	0	0.0460	0	0	0
-0.50	0.2170	0	0.2170	0	0	0
-0.25	0.2350	0.0110	0.2240	0.0110	0.000378605	0.000378605
0.00	0.3820	0.0130	0.3690	0.0240	0.000447443	0.000826048
0.25	0.7200	0.1050	0.6150	0.1290	0.003613960	0.004440008
0.50	1.2100	0.2960	0.9140	0.4250	0.010187926	0.014627934
0.75	2.1050	0.8680	1.2370	1.2930	0.029875404	0.044503339
1.00	4.7390	2.8940	1.8450	4.1870	0.099607627	0.144110966
1.25	8.1730	5.8100	2.3630	9.9970	0.199972465	0.344083431
1.50	6.6900	6.0500	0.6400	16.0470	0.208232946	0.552316376
1.75	7.4790	7.3740	0.1050	23.4210	0.253803263	0.806119639
2.00	4.7060	3.7510	0.9550	27.1720	0.129104426	0.935224066
2.25	1.7090	1.3860	0.3230	28.5580	0.047704275	0.982928340
2.50	0.4190	0.3180	0.1010	28.8760	0.010945137	0.993873477
2.75	0.0950	0.0760	0.0190	28.9520	0.002615819	0.996489296
3.00	0.0460	0.0430	0.0030	28.9950	0.001480003	0.997969299
3.25	0.0270	0.0250	0.0020	29.0200	0.000860467	0.998829765
3.50	0.0140	0.0120	0.0020	29.0320	0.000413024	0.999242789
3.75	0.0150	0.0140	0.0010	29.0460	0.000481861	0.999724651
4.00	0.0120	0.0080	0.0040	29.0540	0.000275349	1

TOTAL WT. 39.0670 grams
 DIGESTED WT. 29.0540 grams
 % SILICA 74.3697

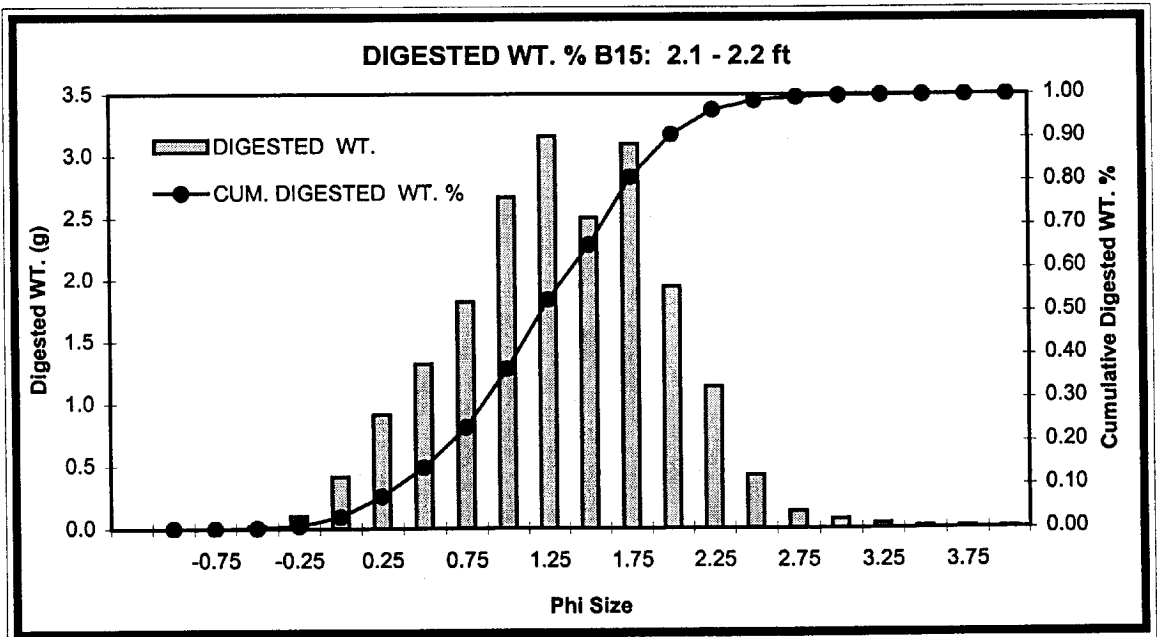


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B15: 2.1 - 2.2 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.5030	0	0.5030	0	0	0
-0.75	0.9370	0	0.9370	0	0	0
-0.50	1.7700	0.0240	1.7460	0.0240	0.001210043	0.001210043
-0.25	3.0650	0.1020	2.9630	0.1260	0.005142684	0.006352728
0.00	3.7560	0.4190	3.3370	0.5450	0.021125340	0.027478068
0.25	4.1030	0.9190	3.1840	1.4640	0.046334577	0.073812645
0.50	4.0430	1.3230	2.7200	2.7870	0.066703640	0.140516285
0.75	4.0350	1.8250	2.2100	4.6120	0.092013714	0.232529999
1.00	4.6010	2.6720	1.9290	7.2840	0.134718161	0.367248160
1.25	4.9010	3.1580	1.7430	10.4420	0.159221539	0.526469698
1.50	3.4200	2.5000	0.9200	12.9420	0.126046183	0.652515882
1.75	3.9080	3.0960	0.8120	16.0380	0.156095593	0.808611475
2.00	2.4000	1.9450	0.4550	17.9830	0.098063931	0.906675406
2.25	1.3240	1.1370	0.1870	19.1200	0.057325804	0.964001210
2.50	0.5050	0.4260	0.0790	19.5460	0.021478270	0.985479480
2.75	0.1580	0.1360	0.0220	19.6820	0.006856912	0.992336392
3.00	0.0760	0.0720	0.0040	19.7540	0.003630130	0.995966522
3.25	0.0400	0.0380	0.0020	19.7920	0.001915902	0.997882424
3.50	0.0180	0.0170	0.0010	19.8090	0.000857114	0.998739538
3.75	0.0180	0.0150	0.0030	19.8240	0.000756277	0.999495815
4.00	0.0100	0.0100	0	19.8340	0.000504185	1

TOTAL WT. 43.5910 grams
DIGESTED WT. 19.8340 grams
% SILICA 45.5002

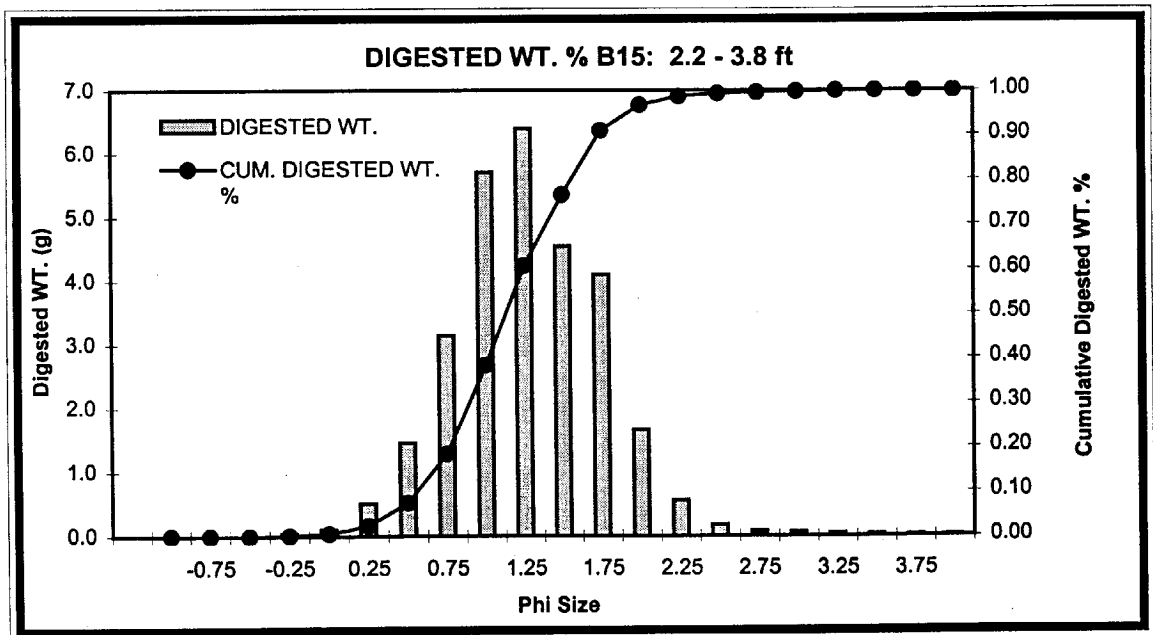


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B15: 2.2 - 3.8 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.3060	0	0.3060	0	0	0
-0.75	0.3500	0	0.3500	0	0	0
-0.50	0.7790	0	0.7790	0	0	0
-0.25	1.2940	0.0460	1.2480	0.0460	0.001605080	0.001605080
0.00	1.9620	0.1110	1.8510	0.1570	0.003873129	0.005478209
0.25	3.1040	0.5210	2.5830	0.6780	0.018179281	0.023657490
0.50	4.4390	1.4640	2.9750	2.1420	0.051083429	0.074740919
0.75	5.7270	3.1480	2.5790	5.2900	0.109843330	0.184584249
1.00	8.1800	5.7090	2.4710	10.9990	0.199204438	0.383788688
1.25	9.2450	6.3880	2.8570	17.3870	0.222896821	0.606685509
1.50	5.9030	4.5490	1.3540	21.9360	0.158728497	0.765414006
1.75	5.3700	4.1020	1.2680	26.0380	0.143131303	0.908545309
2.00	2.1160	1.6560	0.4600	27.6940	0.057782895	0.966328204
2.25	0.6730	0.5590	0.1140	28.2530	0.019505217	0.985833421
2.50	0.2190	0.1780	0.0410	28.4310	0.006210963	0.992044384
2.75	0.0950	0.0760	0.0190	28.5070	0.002651872	0.994696256
3.00	0.0720	0.0600	0.0120	28.5670	0.002093583	0.996789839
3.25	0.0600	0.0430	0.0170	28.6100	0.001500401	0.998290240
3.50	0.0360	0.0230	0.0130	28.6330	0.000802540	0.999092781
3.75	0.0330	0.0170	0.0160	28.6500	0.000593182	0.999685963
4.00	0.0230	0.0090	0.0140	28.6590	0.000314037	1

TOTAL WT. 49.9860 grams
DIGESTED WT. 28.6590 grams
% SILICA 57.3341

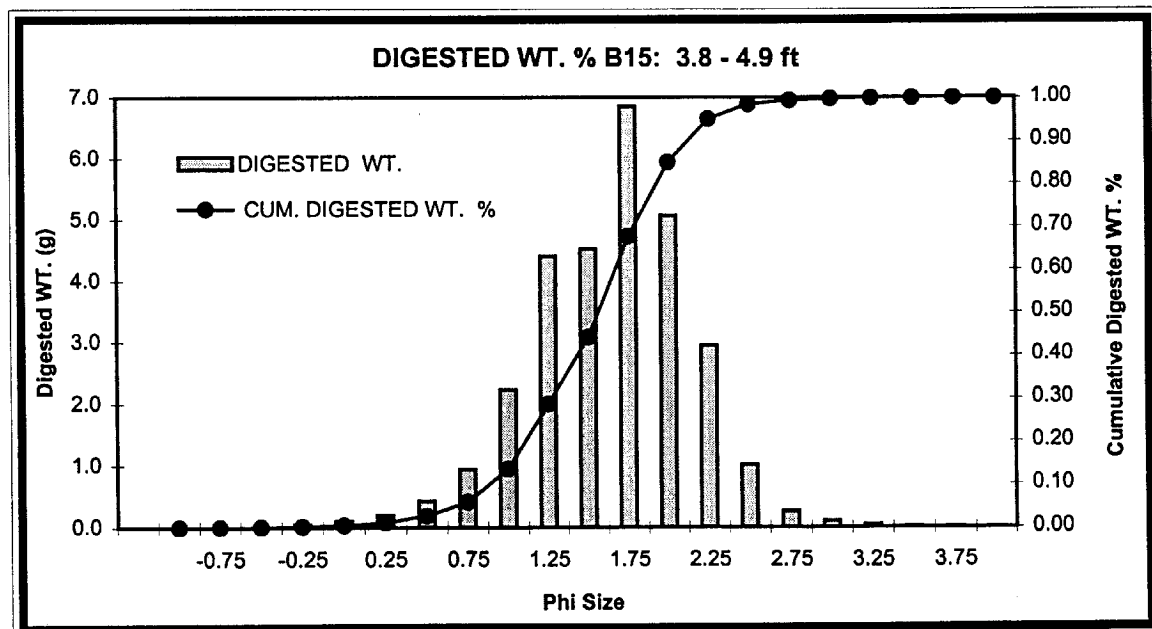


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B15: 3.8 - 4.9 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT.	CUM. DIGESTED WT. %
-1.00	1.2420	0	1.2420	0	0	0
-0.75	0.4870	0	0.4870	0	0	0
-0.50	0.6250	0.0120	0.6130	0.0120	0.000410565	0.000410565
-0.25	0.7920	0.0480	0.7440	0.0600	0.001642261	0.002052826
0.00	0.8930	0.0970	0.7960	0.1570	0.003318735	0.005371562
0.25	1.1810	0.2010	0.9800	0.3580	0.006876967	0.012248529
0.50	1.5580	0.4270	1.1310	0.7850	0.014609279	0.026857808
0.75	2.2590	0.9380	1.3210	1.7230	0.032092514	0.058950322
1.00	3.9840	2.2350	1.7490	3.9580	0.076467771	0.135418092
1.25	6.0670	4.4130	1.6540	8.3710	0.150985357	0.286403449
1.50	5.7990	4.5250	1.2740	12.8960	0.154817298	0.441220747
1.75	8.1940	6.8560	1.3380	19.7520	0.234569591	0.675790338
2.00	5.9800	5.0700	0.9100	24.8220	0.173463802	0.849254140
2.25	3.4010	2.9480	0.4530	27.7700	0.100862187	0.950116327
2.50	1.0910	1.0080	0.0830	28.7780	0.034487478	0.984603805
2.75	0.2600	0.2600	0	29.0380	0.008895580	0.993499384
3.00	0.1070	0.1070	0	29.1450	0.003660873	0.997160257
3.25	0.0460	0.0460	0	29.1910	0.001573833	0.998734091
3.50	0.0190	0.0190	0	29.2100	0.000650062	0.999384152
3.75	0.0180	0.0120	0.0060	29.2220	0.000410565	0.999794717
4.00	0.0100	0.0060	0.0040	29.2280	0.000205283	1

TOTAL WT. 44.0130 grams
DIGESTED WT. 29.2280 grams
% SILICA 66.4077

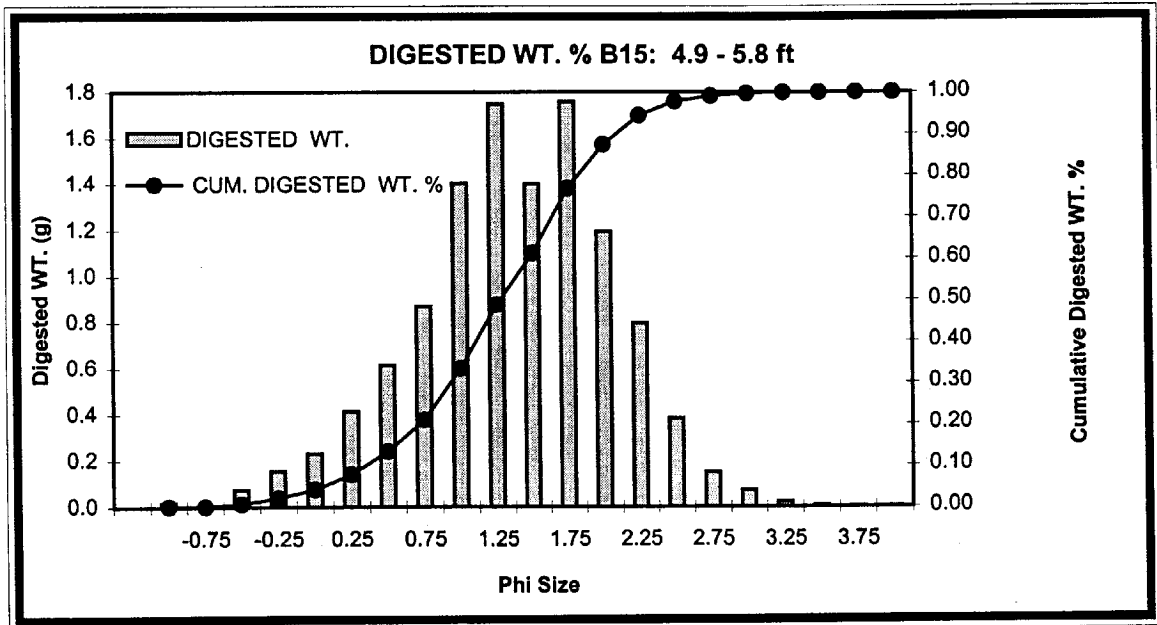


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B15: 4.9 - 5.8 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT.	CUM. DIGESTED WT. %
-1.00	15.7760	0.0180	15.7580	0.018	0.001589966	0.001589966
-0.75	3.7740	0	3.7740	0.018	0	0.001589966
-0.50	3.9040	0.0740	3.8300	0.0920	0.006536525	0.008126491
-0.25	3.4500	0.1540	3.2960	0.2460	0.013603039	0.021729529
0.00	2.7740	0.2300	2.5440	0.4760	0.020316226	0.042045756
0.25	2.5430	0.4150	2.1280	0.8910	0.036657539	0.078703295
0.50	2.2380	0.6160	1.6220	1.5070	0.054412154	0.133115449
0.75	2.1690	0.8730	1.2960	2.3800	0.077113329	0.210228778
1.00	2.5350	1.4050	1.1300	3.7850	0.124105644	0.334334423
1.25	2.7410	1.7480	0.9930	5.5330	0.154403321	0.488737744
1.50	1.9080	1.4010	0.5070	6.9340	0.123752319	0.612490063
1.75	2.2050	1.7600	0.4450	8.6940	0.155463298	0.767953361
2.00	1.4540	1.1940	0.2600	9.8880	0.105467715	0.873421076
2.25	0.9420	0.7970	0.1450	10.6850	0.070400141	0.943821217
2.50	0.4980	0.3840	0.1140	11.0690	0.033919265	0.977740482
2.75	0.2400	0.1500	0.0900	11.2190	0.013249713	0.990990195
3.00	0.1350	0.0710	0.0640	11.2900	0.006271531	0.997261726
3.25	0.0720	0.0210	0.0510	11.3110	0.001854960	0.999116686
3.50	0.0340	0.0050	0.0290	11.3160	0.000441657	0.999558343
3.75	0.0290	0.0030	0.0260	11.3190	0.000264994	0.999823337
4.00	0.0220	0.0020	0.0200	11.3210	0.000176663	1

TOTAL WT. 49.4430 grams
DIGESTED WT. 11.3210 grams
% SILICA 22.8971

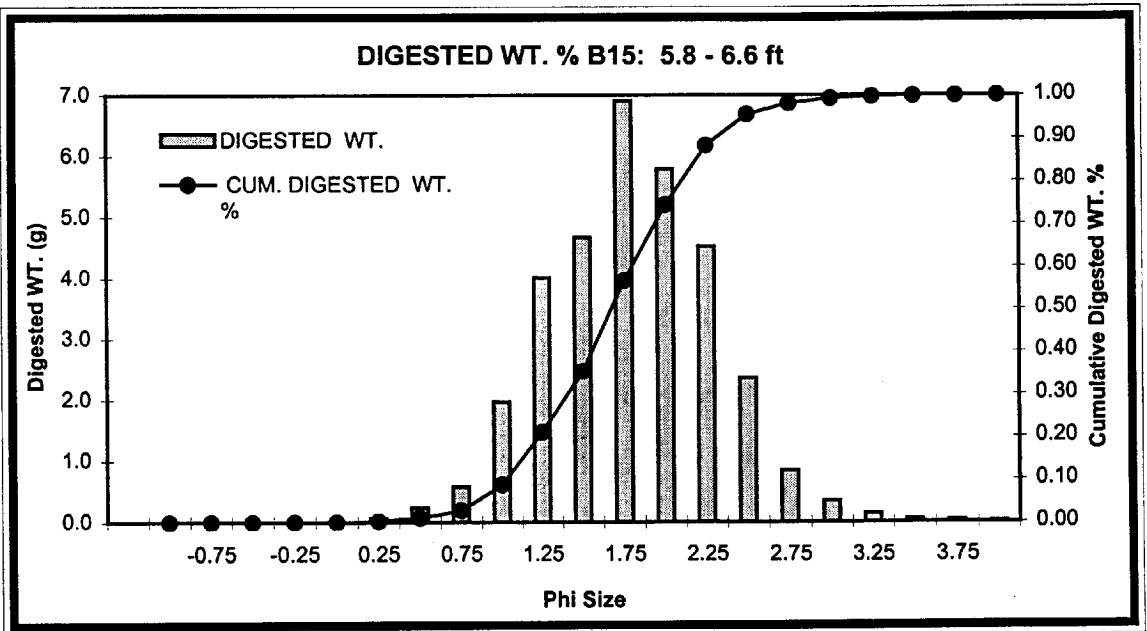


POST DIGESTION GRAIN SIZE DISTRIBUTION

CORE B15: 5.8 - 6.6 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	1.9320	0	1.9320	0	0	0
-0.75	1.7640	0	1.7640	0	0	0
-0.50	1.8370	0	1.8370	0	0	0
-0.25	1.9260	0	1.9260	0	0	0
0.00	2.0530	0.0060	2.0470	0.0060	0.000184162	0.000184162
0.25	2.2830	0.0690	2.2140	0.0750	0.002117864	0.002302026
0.50	2.5910	0.2320	2.3590	0.3070	0.007120933	0.009422959
0.75	3.1080	0.5780	2.5300	0.8850	0.017740945	0.027163904
1.00	4.8580	1.9680	2.8900	2.8530	0.060405157	0.087569061
1.25	7.3070	4.0060	3.3010	6.8590	0.122958870	0.210527931
1.50	7.2820	4.6730	2.6090	11.5320	0.143431553	0.353959484
1.75	9.8340	6.9100	2.9240	18.4420	0.212093309	0.566052793
2.00	8.2950	5.7860	2.5090	24.2280	0.177593616	0.743646409
2.25	6.7450	4.5310	2.2140	28.7590	0.139073051	0.882719460
2.50	4.2260	2.3700	1.8560	31.1290	0.072744015	0.955463475
2.75	2.5430	0.8490	1.6940	31.9780	0.026058932	0.981522406
3.00	1.9620	0.3530	1.6090	32.3310	0.010834868	0.992357274
3.25	1.8070	0.1440	1.6630	32.4750	0.004419890	0.996777164
3.50	1.7500	0.0510	1.6990	32.5260	0.001565378	0.998342541
3.75	1.7000	0.0360	1.6640	32.5620	0.001104972	0.999447514
4.00	1.7420	0.0180	1.7240	32.5800	0.000552486	1

TOTAL WT. 77.5450 grams
DIGESTED WT. 32.5800 grams
% SILICA 42.0143

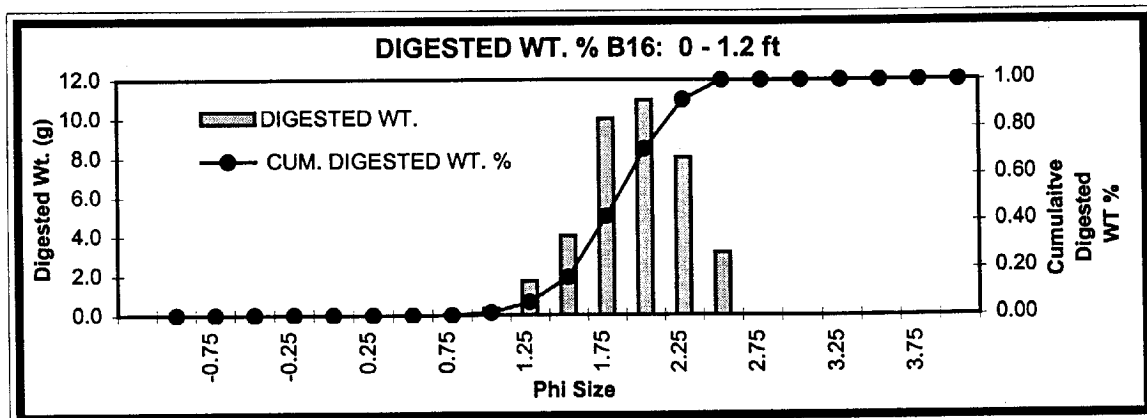


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B16: 0 - 1.2 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0	0	0	0	0	0
-0.75	0	0	0	0	0	0
-0.50	0	0	0	0	0	0
-0.25	0	0	0	0	0	0
0.00	0.0230	0	0.023	0	0	0
0.25	0.0320	0.0050	0.0270	0.0050	0.000130141	0.000130141
0.50	0.0690	0.0130	0.0560	0.0180	0.000338365	0.000468506
0.75	0.1760	0.0570	0.1190	0.0750	0.001483602	0.001952108
1.00	0.7310	0.3360	0.3950	0.4110	0.008745445	0.010697553
1.25	2.7020	1.7250	0.9770	2.1360	0.04489849	0.055596044
1.50	5.1080	4.0330	1.0750	6.1690	0.104971369	0.160567413
1.75	12.3230	10.0220	2.3010	16.1910	0.260853722	0.421421135
2.00	12.9940	10.9500	2.0440	27.1410	0.285007808	0.706428943
2.25	9.4940	8.0260	1.4680	35.1670	0.208901614	0.915330557
2.50	3.7200	3.1820	0.5380	38.3490	0.082821447	0.998152004
2.75	0.8920	0	0.8920	38.3490	0	0.998152004
3.00	0.3330	0	0.3330	38.3490	0	0.998152004
3.25	0.1370	0	0.1370	38.3490	0	0.998152004
3.50	0.0420	0.0400	0.0020	38.3890	0.001041124	0.999193129
3.75	0.0210	0.0200	0.0010	38.4090	0.000520562	0.999713691
4.00	0.0140	0.0110	0.0030	38.4200	0.000286309	1

TOTAL WT. 48.8110
 DIGESTED WT. 38.4200
 % SILICA 78.7118

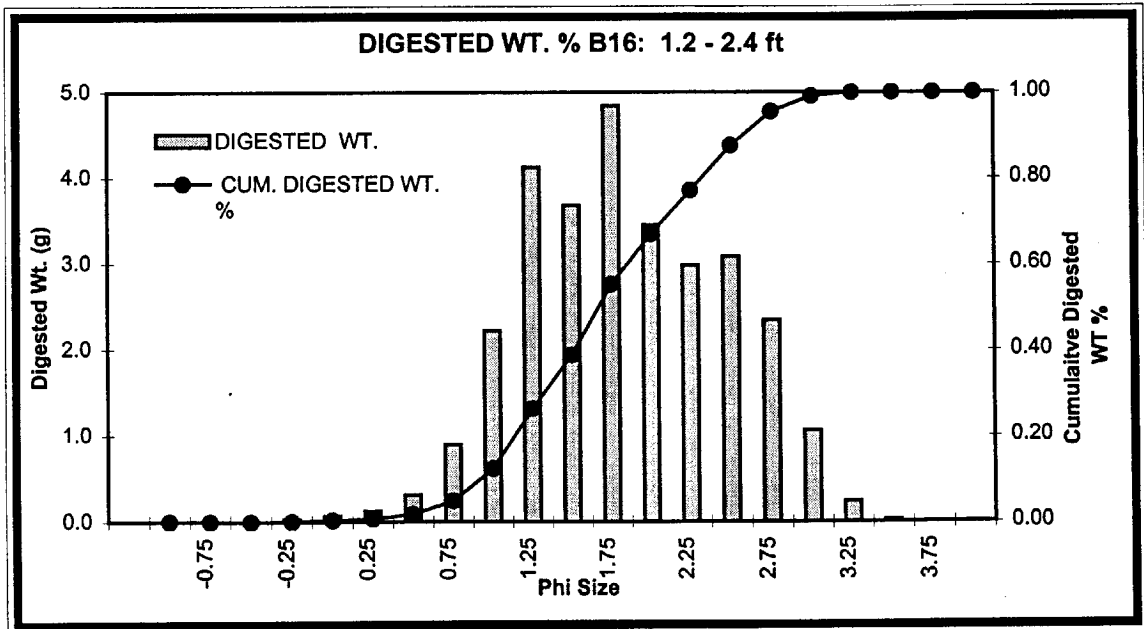


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B16: 1.2 - 2.4 ft (HVY)

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	1.3760	0	1.3760	0	0	0
-0.75	0.5140	0	0.5140	0	0	0
-0.50	0.7110	0	0.7110	0	0	0
-0.25	0.6090	0.0330	0.5760	0.0330	0.001118682	0.001118682
0.00	0.7500	0.0710	0.6790	0.1040	0.002406861	0.003525543
0.25	0.9830	0.1220	0.8610	0.2260	0.004135733	0.007661277
0.50	1.3330	0.3100	1.0230	0.5360	0.010508831	0.018170107
0.75	2.2910	0.8950	1.3960	1.4310	0.030340012	0.048510119
1.00	4.0250	2.2200	1.8050	3.6510	0.075256788	0.123766907
1.25	6.2330	4.1260	2.1070	7.7770	0.139869148	0.263636055
1.50	5.4330	3.6800	1.7530	11.4570	0.124749992	0.388386047
1.75	6.7310	4.8420	1.8890	16.2990	0.164141157	0.552527204
2.00	4.4310	3.4540	0.9770	19.7530	0.117088715	0.669615919
2.25	3.4590	2.9820	0.4770	22.7350	0.101088172	0.770704092
2.50	3.3710	3.0900	0.2810	25.8250	0.104749314	0.875453405
2.75	2.4700	2.3500	0.1200	28.1750	0.079663717	0.955117123
3.00	1.1330	1.0620	0.0710	29.2370	0.036001220	0.991118343
3.25	0.2790	0.2360	0.0430	29.4730	0.008000271	0.999118614
3.50	0.0330	0.0220	0.0110	29.4950	0.000745788	0.999864402
3.75	0.0130	0.0020	0.0110	29.4970	0.000067799	0.999932201
4.00	0.0110	0.0020	0.0090	29.4990	0.000067799	1

TOTAL WT. 46.1890 grams
DIGESTED WT. 29.4990 grams
% SILICA 63.8659

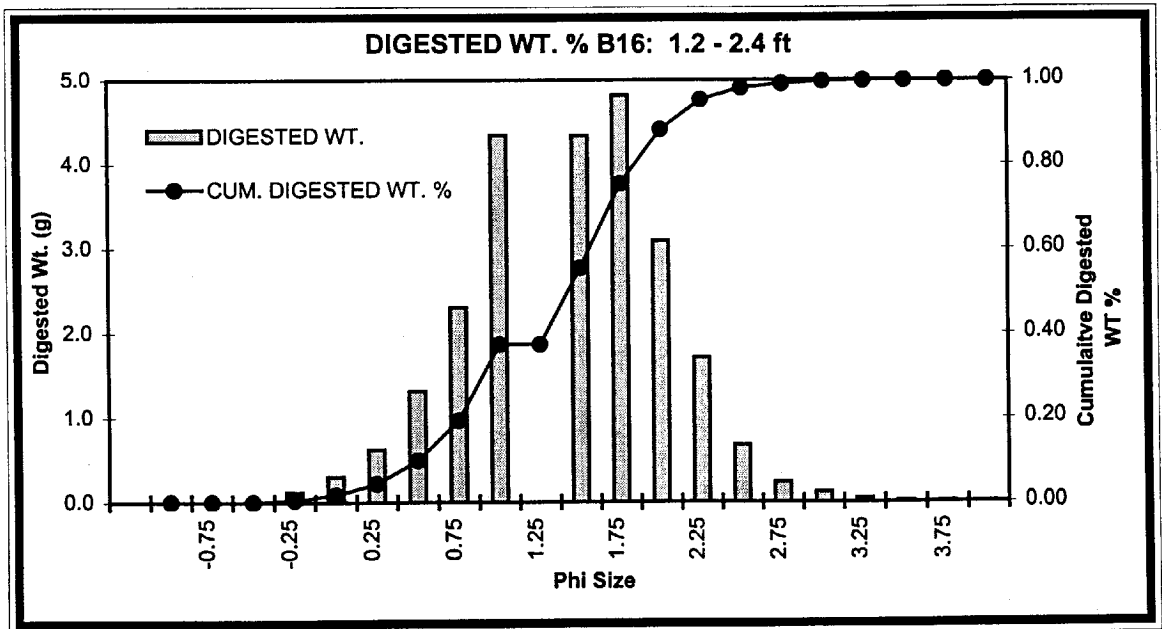


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B16: 1.2 - 2.4 ft (LHT)

PHI	TOTAL WT.	DIGESTE WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.7090	0	0.7090	0	0	0
-0.75	0.7000	0	0.7000	0	0	0
-0.50	1.1890	0.0090	1.1800	0.0090	0.000373459	0.000373459
-0.25	1.9340	0.1190	1.8150	0.1280	0.004937964	0.005311424
0.00	2.2750	0.3020	1.9730	0.4300	0.012531640	0.017843064
0.25	4.2930	0.6260	3.6670	1.0560	0.025976182	0.043819246
0.50	6.1970	1.3180	4.8790	2.3740	0.054691066	0.098510312
0.75	4.0330	2.3080	1.7250	4.6820	0.095771609	0.194281920
1.00	10.3520	4.3410	6.0110	9.0230	0.180131956	0.374413876
1.25	5.0700	0	5.0700	9.0230	0	0.374413876
1.50	4.5440	4.3410	0.2030	13.3640	0.180131956	0.554545832
1.75	5.4020	4.8200	0.5820	18.1840	0.200008299	0.754554131
2.00	3.4920	3.0900	0.4020	21.2740	0.128221088	0.882775219
2.25	2.0080	1.7160	0.2920	22.9900	0.071206274	0.953981493
2.50	0.7980	0.6760	0.1220	23.6660	0.028050956	0.982032449
2.75	0.2950	0.2380	0.0570	23.9040	0.009875928	0.991908378
3.00	0.1440	0.1190	0.0250	24.0230	0.004937964	0.996846342
3.25	0.0580	0.0460	0.0120	24.0690	0.001908793	0.998755135
3.50	0.0260	0.0160	0.0100	24.0850	0.000663928	0.999419063
3.75	0.0210	0.0090	0.0120	24.0940	0.000373459	0.999792523
4.00	0.0160	0.0050	0.0110	24.0990	0.000207477	1

TOTAL WT. 53.5560 grams
DIGESTED WT. 24.0990 grams
SAMPLE % SILICA 44.9978

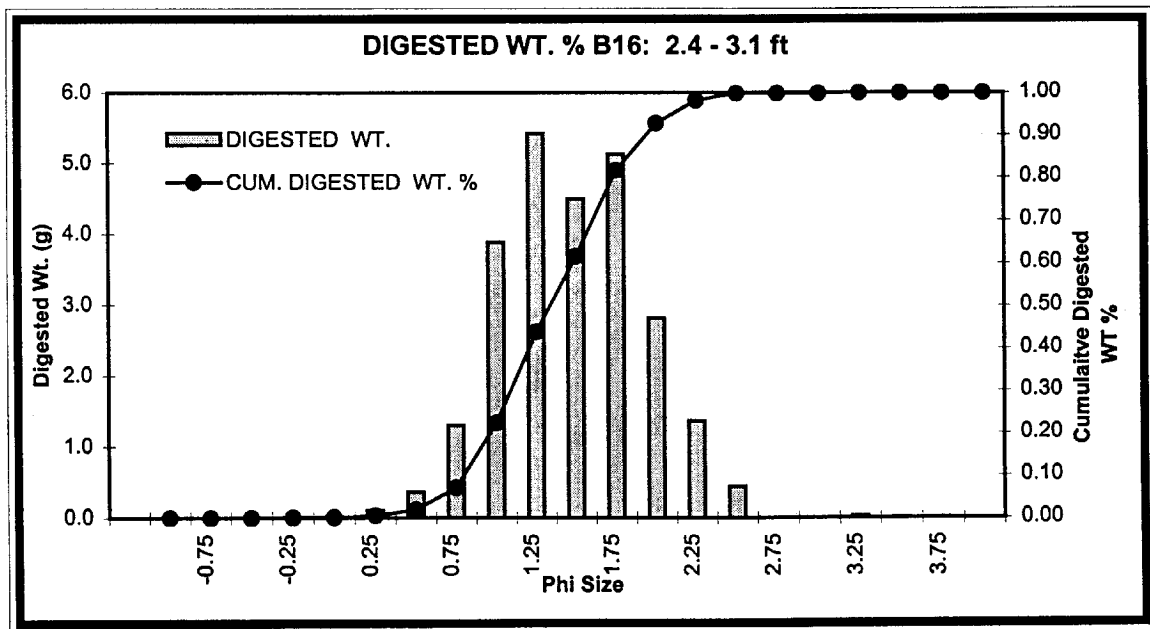


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B16: 2.4 - 3.1 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.0750	0	0.0750	0	0	0
-0.75	0.0890	0	0.0890	0	0	0
-0.50	0.1650	0.0050	0.1600	0.0050	0.000196866	0.000196866
-0.25	0.2380	0.0120	0.2260	0.0170	0.000472478	0.000669344
0.00	0.4210	0.0230	0.3980	0.0400	0.000905583	0.001574927
0.25	0.9550	0.1060	0.8490	0.1460	0.004173557	0.005748484
0.50	1.9140	0.3630	1.5510	0.5090	0.014292464	0.020040948
0.75	3.2790	1.3010	1.9780	1.8100	0.051224506	0.071265454
1.00	6.4260	3.8850	2.5410	5.6950	0.152964800	0.224230254
1.25	7.6030	5.4220	2.1810	11.1170	0.213481376	0.437711631
1.50	6.2000	4.4940	1.7060	15.6110	0.176943066	0.614654697
1.75	6.7900	5.1290	1.6610	20.7400	0.201945035	0.816599732
2.00	3.6940	2.8240	0.8700	23.5640	0.111189857	0.927789590
2.25	1.7370	1.3640	0.3730	24.9280	0.053705016	0.981494606
2.50	0.5190	0.4400	0.0790	25.3680	0.017324199	0.998818805
2.75	0.1440	0	0.1440	25.3680	0	0.998818805
3.00	0.0640	0	0.0640	25.3680	0	0.998818805
3.25	0.0320	0.0220	0.0100	25.3900	0.000866210	0.999685015
3.50	0.0140	0.0050	0.0090	25.3950	0.000196866	0.999881880
3.75	0.0150	0.0030	0.0120	25.3980	0.000118120	1
4.00	0.0120	0	0.0120	25.3980	0	1

TOTAL WT. 40.3860 grams
DIGESTED WT. 25.3980 grams
% SILICA 62.8881

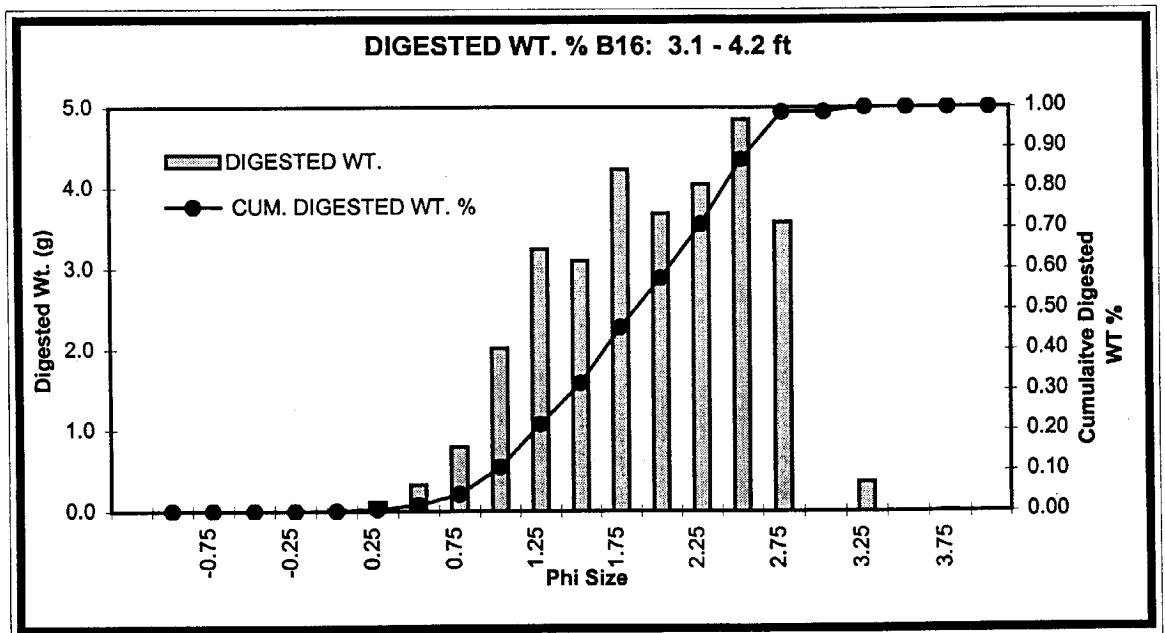


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B16: 3.1 - 4.2 (HVY)

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.1740	0	0.1740	0	0	0
-0.75	0.1480	0	0.1480	0	0	0
-0.50	0.1990	0	0.1990	0	0	0
-0.25	0.3720	0.0090	0.3630	0.0090	0.000296033	0.000296033
0.00	0.5630	0.0290	0.5340	0.0380	0.000953885	0.001249918
0.25	0.9250	0.1210	0.8040	0.1590	0.003980001	0.005229919
0.50	1.4090	0.3310	1.0780	0.4900	0.010887442	0.016117361
0.75	1.9210	0.7980	1.1230	1.2880	0.026248273	0.042365634
1.00	3.5710	2.0260	1.5450	3.3140	0.066640353	0.109005986
1.25	4.5890	3.2450	1.3440	6.5590	0.106736399	0.215742385
1.50	4.2670	3.1030	1.1640	9.6620	0.102065654	0.317808039
1.75	5.6300	4.2250	1.4050	13.8870	0.138971120	0.456779159
2.00	4.3840	3.6840	0.7000	17.5710	0.121176238	0.577955398
2.25	4.4540	4.0390	0.4150	21.6100	0.132853102	0.710808499
2.50	5.0740	4.8460	0.2280	26.4560	0.159397408	0.870205908
2.75	3.6290	3.5780	0.0510	30.0340	0.117689626	0.987895533
3.00	1.6490	0	1.6490	30.0340	0	0.987895533
3.25	0.3690	0.3580	0.0110	30.3920	0.011775541	0.999671074
3.50	0.0350	0	0.0350	30.3920	0	0.999671074
3.75	0.0160	0.0080	0.0080	30.4000	0.000263141	0.999934215
4.00	0.0070	0.0020	0.0050	30.4020	0.000065785	1

TOTAL WT. 43.3850 grams
 DIGESTED WT. 30.4020 grams
 % SILICA 70.0749

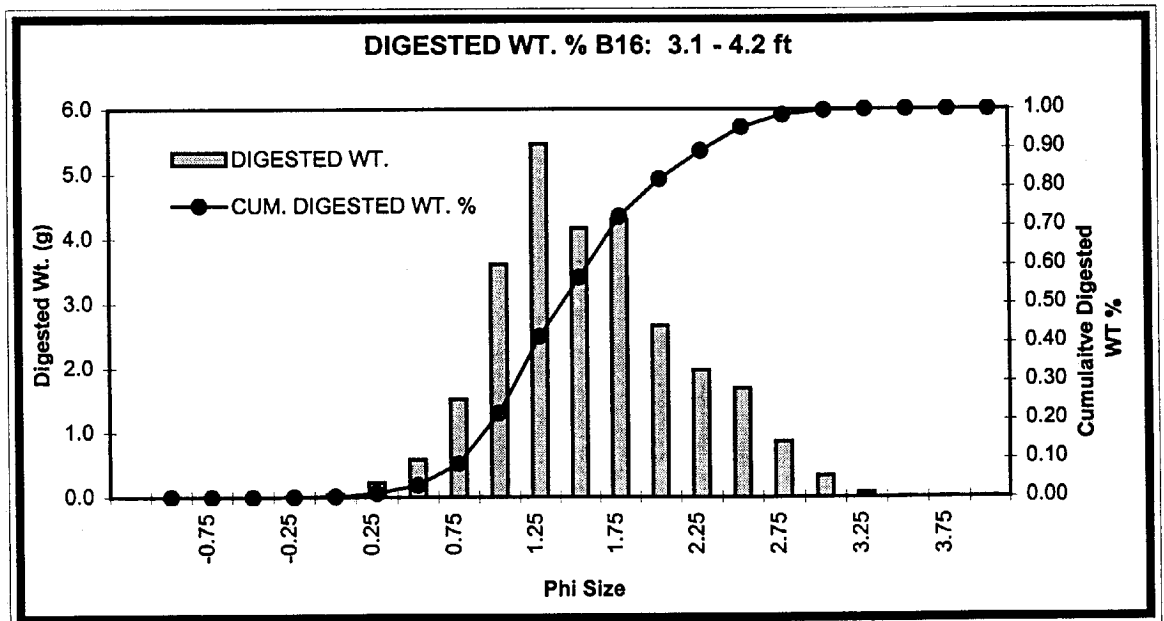


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B16: 3.1 - 4.2 ft (LHT)

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.6810	0	0.6810	0	0	0
-0.75	0.3230	0	0.3230	0	0	0
-0.50	0.4520	0	0.4520	0	0	0
-0.25	0.7150	0.0120	0.7030	0.0120	0.000435888	0.000435888
0.00	1.2530	0.0510	1.2020	0.0630	0.001852525	0.002288413
0.25	1.8330	0.2280	1.6050	0.2910	0.008281874	0.010570287
0.50	2.8520	0.5840	2.2680	0.8750	0.021213222	0.031783509
0.75	4.1490	1.5240	2.6250	2.3990	0.055357792	0.087141300
1.00	7.0620	3.6140	3.4480	6.0130	0.131274973	0.218416273
1.25	7.7140	5.4650	2.2490	11.4780	0.198510716	0.416926989
1.50	6.2440	4.1660	2.0780	15.6440	0.151325826	0.568252815
1.75	6.4190	4.2980	2.1210	19.9420	0.156120596	0.724373411
2.00	3.4170	2.6580	0.7590	22.6000	0.096549219	0.820922630
2.25	2.2640	1.9710	0.2930	24.5710	0.071594624	0.892517254
2.50	1.8140	1.6850	0.1290	26.2560	0.061205957	0.953723211
2.75	0.9090	0.8600	0.0490	27.1160	0.031238649	0.984961860
3.00	0.3500	0.3270	0.0230	27.4430	0.011877951	0.996839811
3.25	0.0800	0.0700	0.0100	27.5130	0.002542681	0.999382492
3.50	0.0110	0.0090	0.0020	27.5220	0.000326916	0.999709408
3.75	0.0140	0.0050	0.0090	27.5270	0.000181620	0.999891028
4.00	0.0060	0.0030	0.0030	27.5300	0.000108972	1

TOTAL WT. **48.5620** **grams**
DIGESTED WT. **27.5300** **grams**
% SILICA **56.6904**

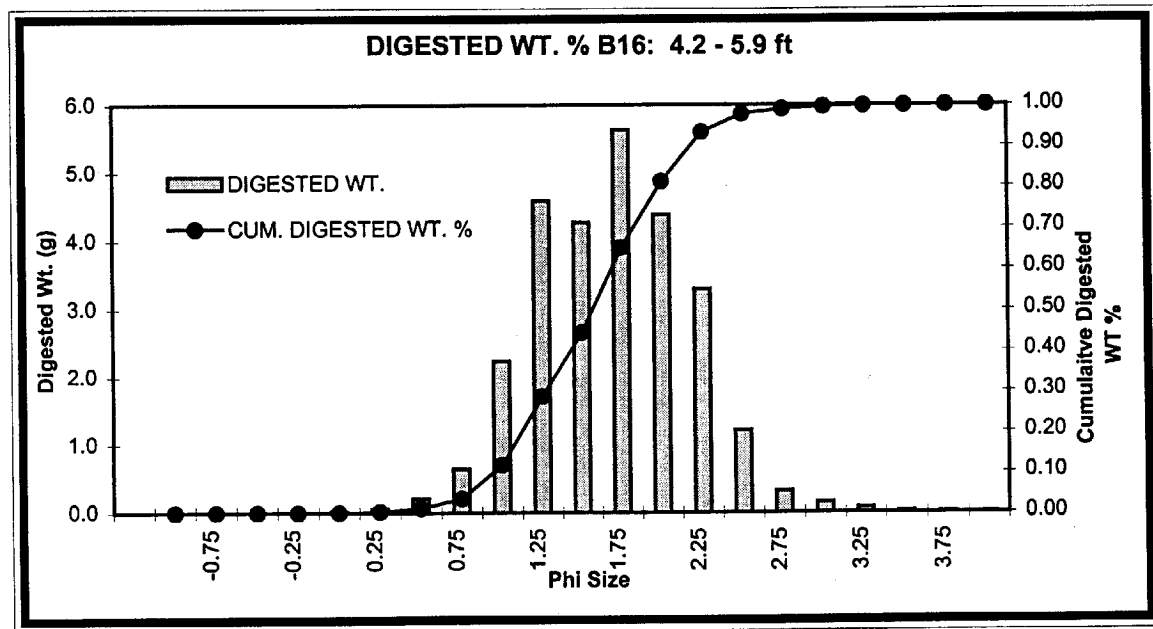


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B16: 4.2 - 5.9 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.1430	0	0.1430	0	0	0
-0.75	0.0400	0	0.0400	0	0	0
-0.50	0.0940	0	0.0940	0	0	0
-0.25	0.2530	0	0.2530	0	0	0
0.00	0.3170	0.0230	0.2940	0.0230	0.000846834	0.000846834
0.25	0.5690	0.0650	0.5040	0.0880	0.002393225	0.003240059
0.50	0.8320	0.2090	0.6230	0.2970	0.007695140	0.010935199
0.75	1.5210	0.6480	0.8730	0.9450	0.023858616	0.034793814
1.00	3.7660	2.2370	1.5290	3.1820	0.082363770	0.117157585
1.25	6.7670	4.5890	2.1780	7.7710	0.168961708	0.286119293
1.50	7.1940	4.2670	2.9270	12.0380	0.157106038	0.443225331
1.75	10.7160	5.6300	5.0860	17.6680	0.207290133	0.650515464
2.00	7.1750	4.3840	2.7910	22.0520	0.161413844	0.811929308
2.25	4.2090	3.2960	0.9130	25.3480	0.121354934	0.933284242
2.50	1.6890	1.2240	0.4650	26.5720	0.045066274	0.978350515
2.75	0.4820	0.3220	0.1600	26.8940	0.011855670	0.990206186
3.00	0.2200	0.1520	0.0680	27.0460	0.005596465	0.995802651
3.25	0.1330	0.0750	0.0580	27.1210	0.002761414	0.998564065
3.50	0.0560	0.0250	0.0310	27.1460	0.000920471	0.999484536
3.75	0.0440	0.0110	0.0330	27.1570	0.000405007	0.999889543
4.00	0.0250	0.0030	0.0220	27.1600	0.000110457	1

TOTAL WT. **46.2450** grams
 DIGESTED WT. **27.1600** grams
 % SILICA **58.7307**

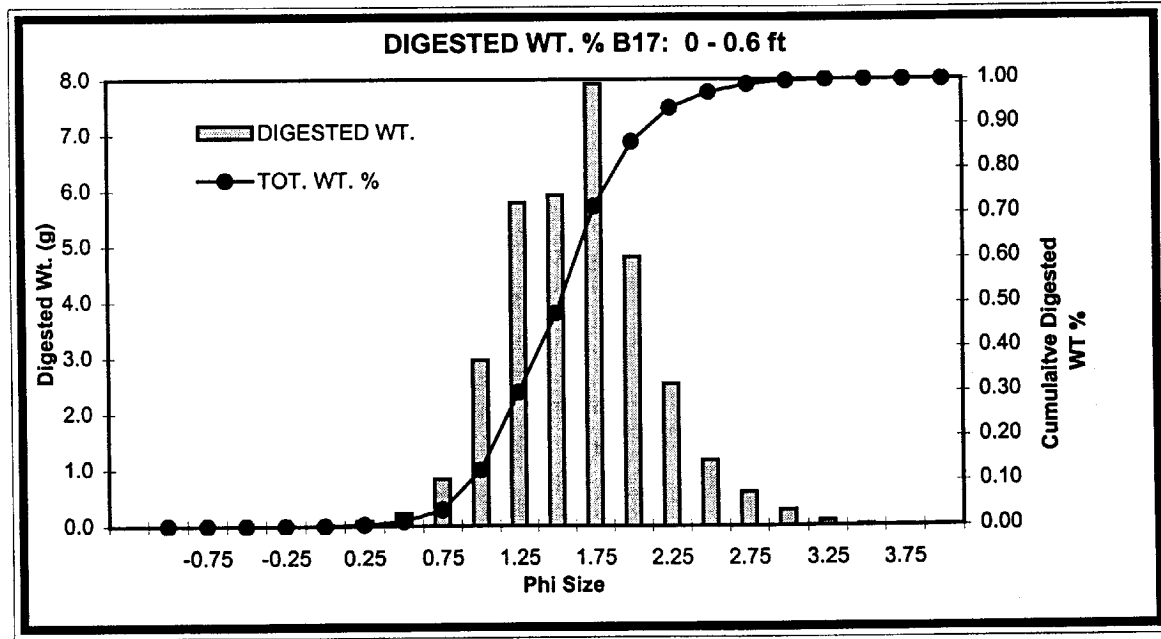


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B17: 0 - 0.6 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	TOT. WT. %
-1.00	0.0260	0	0.0260	0	0	0
-0.75	0.0520	0	0.0520	0	0	0
-0.50	0.0880	0	0.0880	0	0	0
-0.25	0.2250	0.0030	0.2220	0.0030	0.000090136	0.000090136
0.00	0.3610	0.0250	0.3360	0.0280	0.000751134	0.000841270
0.25	0.7620	0.0930	0.6690	0.1210	0.002794219	0.003635490
0.50	1.2900	0.2290	1.0610	0.3500	0.006880389	0.010515879
0.75	2.5230	0.8370	1.6860	1.1870	0.025147973	0.035663852
1.00	5.9230	2.9620	2.9610	4.1490	0.088994382	0.124658234
1.25	8.3130	5.7890	2.5240	9.9380	0.173932638	0.298590872
1.50	8.3120	5.9210	2.3910	15.8590	0.177898627	0.476489499
1.75	10.9200	7.9200	3.0000	23.7790	0.237959319	0.714448818
2.00	6.3900	4.8150	1.5750	28.5940	0.144668449	0.859117267
2.25	3.2850	2.5390	0.7460	31.1330	0.076285191	0.935402458
2.50	1.4130	1.1660	0.2470	32.2990	0.035032900	0.970435357
2.75	0.6770	0.5920	0.0850	32.8910	0.017786858	0.988222216
3.00	0.3070	0.2760	0.0310	33.1670	0.008292522	0.996514737
3.25	0.1020	0.0850	0.0170	33.2520	0.002553856	0.999068594
3.50	0.0320	0.0200	0.0120	33.2720	0.000600907	0.999669501
3.75	0.0260	0.0080	0.0180	33.2800	0.000240363	0.999909864
4.00	0.0170	0.0030	0.0140	33.2830	0.000090136	1

TOTAL WT. 51.0440 grams
DIGESTED WT. 33.2830 grams
% SILICA 65.2045

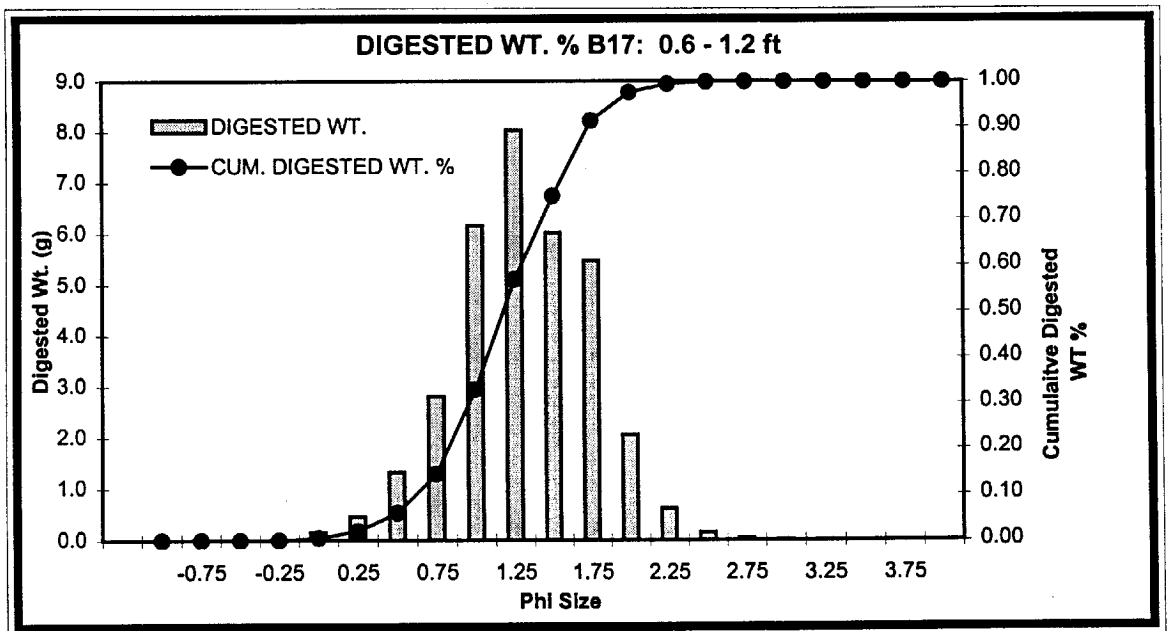


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B17: 0.6 - 1.2 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.5220	0	0.5220	0	0	0
-0.75	0.3090	0	0.3090	0	0	0
-0.50	0.5380	0.0040	0.5340	0.0040	0.000119843	0.000119843
-0.25	1.0520	0.0270	1.0250	0.0310	0.000808940	0.000928783
0.00	1.6930	0.1500	1.5430	0.1810	0.004494113	0.005422896
0.25	3.0310	0.4670	2.5640	0.6480	0.013991671	0.019414567
0.50	4.7660	1.3220	3.4440	1.9700	0.039608113	0.059022680
0.75	6.3630	2.8200	3.5430	4.7900	0.084489319	0.143511999
1.00	10.3680	6.1640	4.2040	10.9540	0.184678072	0.328190071
1.25	11.3180	8.0310	3.2870	18.9850	0.240614795	0.568804866
1.50	7.4260	6.0280	1.3980	25.0130	0.180603410	0.749408275
1.75	8.0770	5.4770	2.6000	30.4900	0.164095036	0.913503311
2.00	2.7290	2.0640	0.6650	32.5540	0.061838991	0.975342302
2.25	0.7750	0.6160	0.1590	33.1700	0.018455823	0.993798124
2.50	0.1970	0.1490	0.0480	33.3190	0.004464152	0.998262276
2.75	0.0650	0.0350	0.0300	33.3540	0.001048626	0.999310903
3.00	0.0380	0.0150	0.0230	33.3690	0.000449411	0.999760314
3.25	0.0290	0.0080	0.0210	33.3770	0.000239686	1
3.50	0.0170	0	0.0170	33.3770	0	1
3.75	0.0190	0	0.0190	33.3770	0	1
4.00	0.0120	0	0.0120	33.3770	0	1

TOTAL WT. 59.3440 grams
DIGESTED WT. 33.3770 grams
% SILICA 56.2433

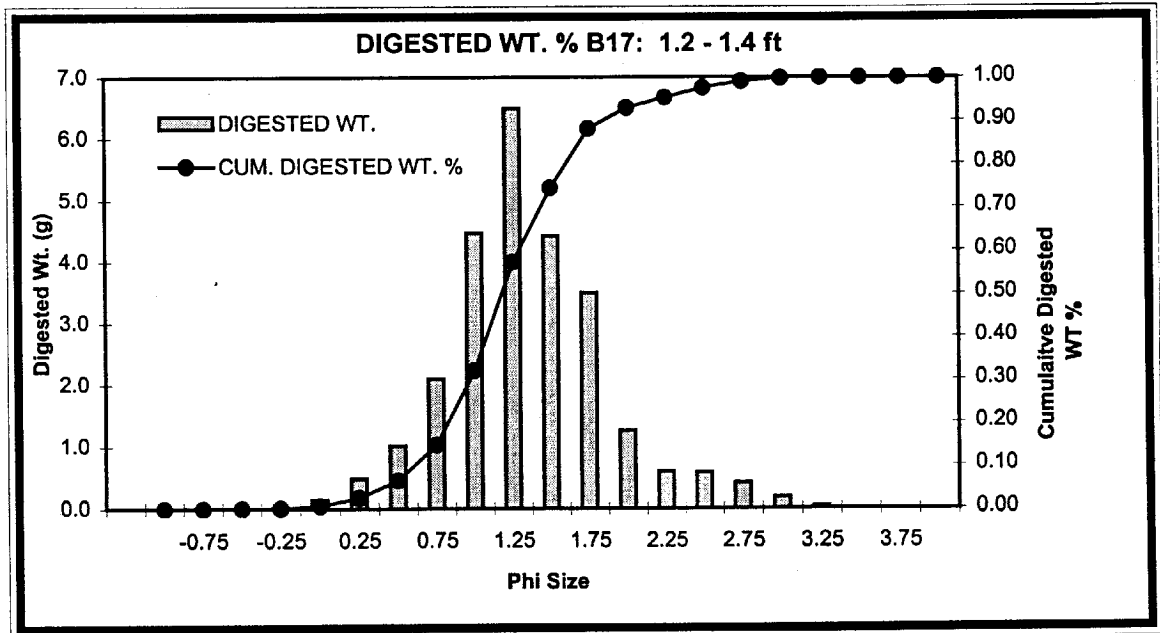


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B17: 1.2 - 1.4 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.6900	0	0.6900	0	0	0
-0.75	0.4400	0.0070	0.4330	0.0070	0.000271676	0.000271676
-0.50	0.8100	0.0070	0.8030	0.0140	0.000271676	0.000543352
-0.25	1.2960	0.0200	1.2760	0.0340	0.000776217	0.001319568
0.00	1.7180	0.1450	1.5730	0.1790	0.005627571	0.006947140
0.25	2.7400	0.4810	2.2590	0.6600	0.018668012	0.025615152
0.50	3.8920	1.0110	2.8810	1.6710	0.039237755	0.064852907
0.75	4.9850	2.1110	2.8740	3.7820	0.081929675	0.146782582
1.00	8.1320	4.4740	3.6580	8.2560	0.173639680	0.320422262
1.25	9.2400	6.4940	2.7460	14.7500	0.252037569	0.572459831
1.50	6.5600	4.4290	2.1310	19.1790	0.171893193	0.744353023
1.75	5.3150	3.5030	1.8120	22.6820	0.135954358	0.880307382
2.00	1.7270	1.2600	0.4670	23.9420	0.048901653	0.929209035
2.25	0.7070	0.6030	0.1040	24.5450	0.023402934	0.952611969
2.50	0.6040	0.5790	0.0250	25.1240	0.022471474	0.975083443
2.75	0.4660	0.4160	0.0500	25.5400	0.016145308	0.991228751
3.00	0.2090	0.1830	0.0260	25.7230	0.007102383	0.998331134
3.25	0.0570	0.0430	0.0140	25.7660	0.001668866	1
3.50	0.0200	0	0.0200	25.7660	0	1
3.75	0.0180	0	0.0180	25.7660	0	1
4.00	0.0120	0	0.0120	25.7660	0	1

TOTAL WT. 49.6380 grams
DIGESTED WT. 25.7660 grams
% SILICA 51.9078

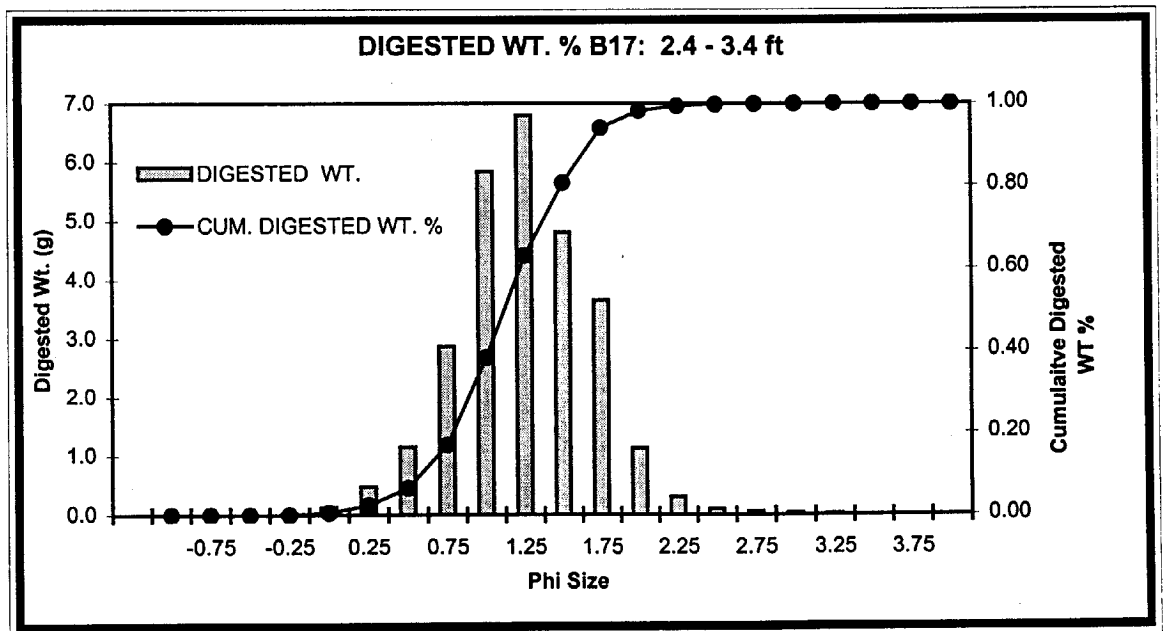


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B17: 2.4 - 3.4 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.2300	0	0.2300	0	0	0
-0.75	0.2390	0	0.2390	0	0	0
-0.50	0.5840	0	0.5840	0	0	0
-0.25	0.8930	0.0210	0.8720	0.0210	0.000766172	0.000766172
0.00	1.6300	0.1320	1.4980	0.1530	0.004815936	0.005582108
0.25	3.1850	0.4790	2.7060	0.6320	0.017476012	0.023058120
0.50	4.8210	1.1620	3.6590	1.7940	0.042394834	0.065452953
0.75	7.2400	2.8740	4.3660	4.6680	0.104856069	0.170309023
1.00	11.0550	5.8460	5.2090	10.5140	0.213287606	0.383596629
1.25	11.1580	6.7980	4.3600	17.3120	0.248020723	0.631617352
1.50	7.5970	4.8120	2.7850	22.1240	0.175562771	0.807180123
1.75	6.2080	3.6580	2.5500	25.7820	0.133459812	0.940639936
2.00	1.8870	1.1360	0.7510	26.9180	0.041446240	0.982086176
2.25	0.4430	0.3020	0.1410	27.2200	0.011018279	0.993104455
2.50	0.1210	0.0950	0.0260	27.3150	0.003466015	0.996570470
2.75	0.0570	0.0510	0.0060	27.3660	0.001860703	0.998431172
3.00	0.0340	0.0290	0.0050	27.3950	0.001058047	0.999489219
3.25	0.0170	0.0140	0.0030	27.4090	0.000510781	1
3.50	0.0090	0	0.0090	27.4090	0	1
3.75	0.0100	0	0.0100	27.4090	0	1
4.00	0.0070	0	0.0070	27.4090	0	1

TOTAL WT.	57.4250	grams
DIGESTED WT.	27.4090	grams
% SILICA	47.7301	

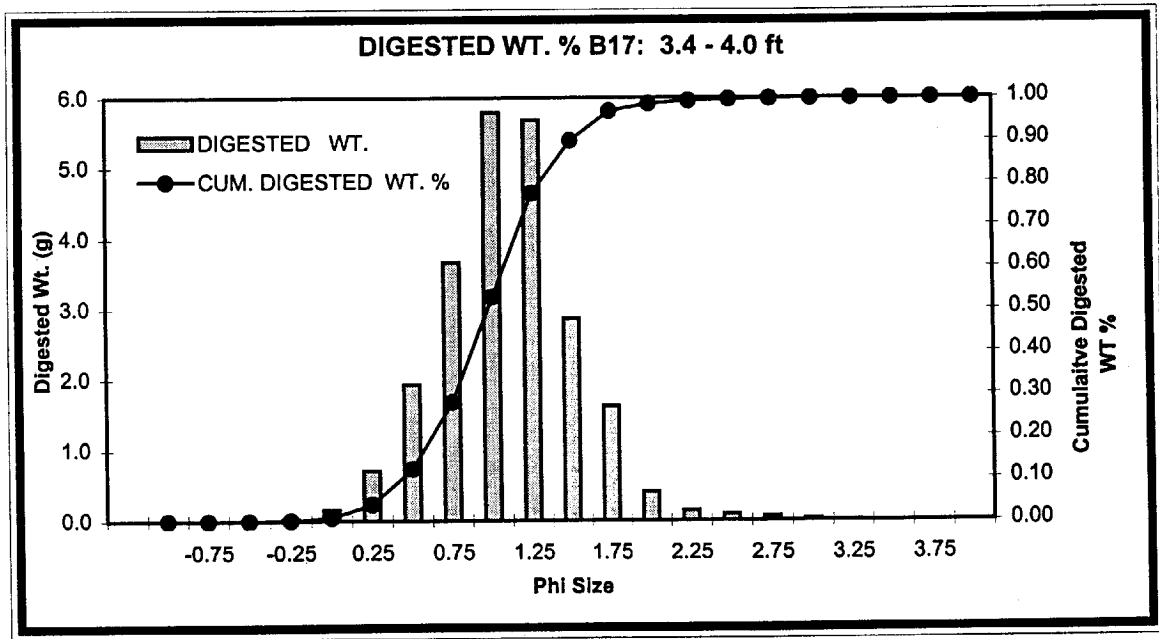


POST DIGESTION GRAIN SIZE DISTRIBUTION

CORE B17: 3.4 - 4.0 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.1870	0	0.1870	0	0	0
-0.75	0.3480	0	0.3480	0	0	0
-0.50	1.1080	0	1.1080	0	0	0
-0.25	1.7580	0.0310	1.7270	0.0310	0.001335228	0.001335228
0.00	2.9520	0.1590	2.7930	0.1900	0.006848430	0.008183659
0.25	5.1280	0.7170	4.4110	0.9070	0.030882543	0.039066201
0.50	6.5510	1.9350	4.6160	2.8420	0.083344101	0.122410303
0.75	8.0630	3.6710	4.3920	6.5130	0.158116897	0.280527200
1.00	9.7760	5.7910	3.9850	12.3040	0.249429297	0.529956497
1.25	8.2970	5.6820	2.6150	17.9860	0.244734462	0.774690959
1.50	4.4360	2.8680	1.5680	20.8540	0.123530172	0.898221131
1.75	2.5570	1.6280	0.9290	22.4820	0.070121032	0.968342163
2.00	0.6180	0.4070	0.2110	22.8890	0.017530258	0.985872421
2.25	0.1810	0.1450	0.0360	23.0340	0.006245424	0.992117845
2.50	0.1020	0.0890	0.0130	23.1230	0.003833398	0.995951243
2.75	0.0620	0.0580	0.0040	23.1810	0.002498169	0.998449412
3.00	0.0320	0.0270	0.0050	23.2080	0.001162941	0.999612353
3.25	0.0190	0.0090	0.0100	23.2170	0.000387647	1
3.50	0.0080	0	0.0080	23.2170	0	1
3.75	0.0090	0	0.0090	23.2170	0	1
4.00	0.0070	0	0.0070	23.2170	0	1

TOTAL WT. **52.1990** **grams**
DIGESTED WT. **23.2170** **grams**
% SILICA **44.4779**

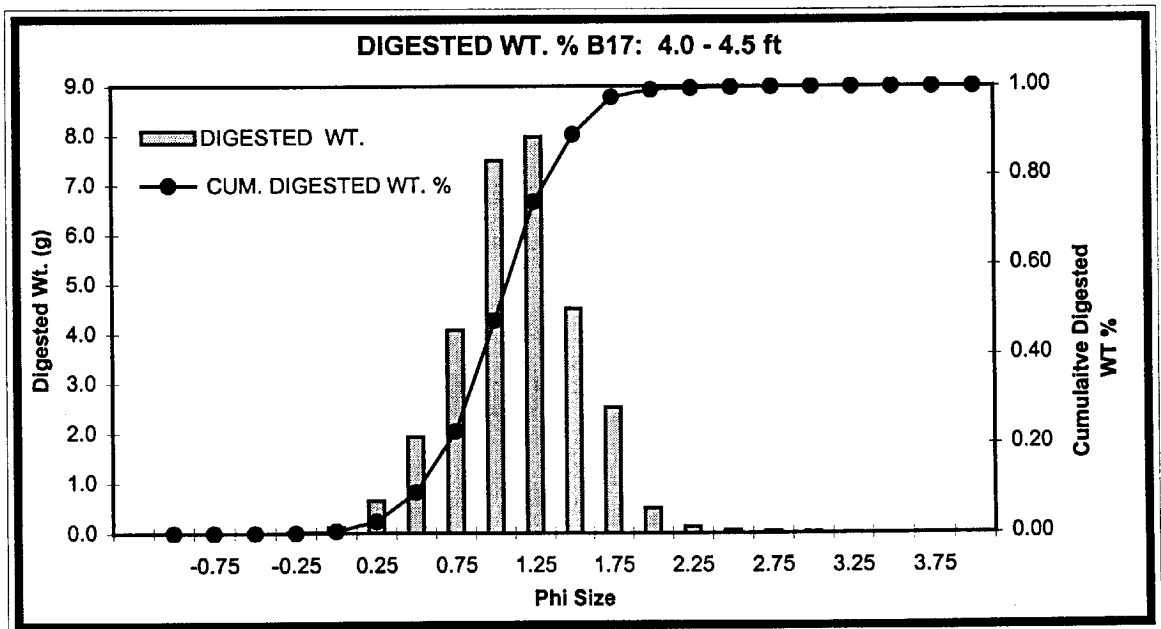


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B17: 4.0 - 4.5 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.3290	0	0.3290	0	0	0
-0.75	0.3340	0	0.3340	0	0	0
-0.50	0.6460	0	0.6460	0	0	0
-0.25	1.3560	0.0250	1.3310	0.0250	0.000831449	0.000831449
0.00	2.4940	0.1250	2.3690	0.1500	0.004157244	0.004988692
0.25	4.9850	0.6520	4.3330	0.8020	0.021684183	0.026672875
0.50	6.9460	1.9400	5.0060	2.7420	0.064520420	0.091193295
0.75	9.4290	4.0810	5.3480	6.8230	0.135725688	0.226918984
1.00	12.6360	7.4840	5.1520	14.3070	0.248902488	0.475821471
1.25	11.7680	7.9800	3.7880	22.2870	0.265398430	0.741219902
1.50	6.6660	4.5210	2.1450	26.8080	0.150359186	0.891579087
1.75	3.9690	2.5220	1.4470	29.3300	0.083876546	0.975455634
2.00	0.7370	0.4960	0.2410	29.8260	0.016495943	0.991951576
2.25	0.1590	0.1220	0.0370	29.9480	0.004057470	0.996009046
2.50	0.0790	0.0600	0.0190	30.0080	0.001995477	0.998004523
2.75	0.0530	0.0340	0.0190	30.0420	0.001130770	0.999135293
3.00	0.0360	0.0170	0.0190	30.0590	0.000565385	0.999700678
3.25	0.0250	0.0090	0.0160	30.0680	0.000299322	1
3.50	0.0200	0	0.0200	30.0680	0	1
3.75	0.0220	0	0.0220	30.0680	0	1
4.00	0.0150	0	0.0150	30.0680	0	1

TOTAL WT. 62.7040 grams
DIGESTED WT. 30.0680 grams
% SILICA 47.9523

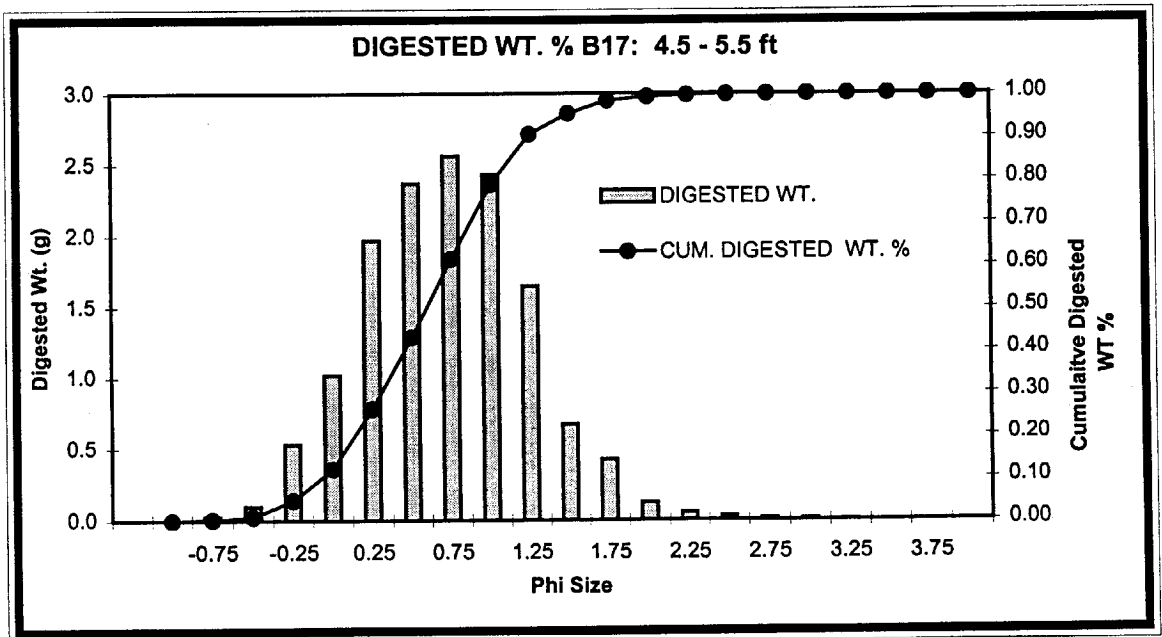


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B17: 4.5 - 5.5 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	14.6390	0	14.6390	0	0	0
-0.75	5.3390	0.0270	5.3120	0.0270	0.001929260	0.001929260
-0.50	6.6860	0.0990	6.5870	0.1260	0.007073955	0.009003215
-0.25	7.4120	0.5330	6.8790	0.6590	0.038085030	0.047088246
0.00	6.7260	1.0200	5.7060	1.6790	0.072883173	0.119971418
0.25	7.4040	1.9670	5.4370	3.6460	0.140550196	0.260521615
0.50	5.9970	2.3690	3.6280	6.0150	0.169274741	0.429796356
0.75	4.9970	2.5630	2.4340	8.5780	0.183136835	0.612933190
1.00	3.9760	2.4350	1.5410	11.0130	0.173990711	0.786923901
1.25	2.3690	1.6500	0.7190	12.6630	0.117899250	0.904823151
1.50	0.9130	0.6750	0.2380	13.3380	0.048231511	0.953054662
1.75	0.5540	0.4250	0.1290	13.7630	0.030367989	0.983422651
2.00	0.1670	0.1250	0.0420	13.8880	0.008931761	0.992354412
2.25	0.0660	0.0530	0.0130	13.9410	0.003787067	0.996141479
2.50	0.0370	0.0280	0.0090	13.9690	0.002000715	0.998142194
2.75	0.0270	0.0130	0.0140	13.9820	0.000928903	0.999071097
3.00	0.0180	0.0080	0.0100	13.9900	0.000571633	0.999642730
3.25	0.0150	0.0050	0.0100	13.9950	0.000357270	1
3.50	0.0100	0	0.0100	13.9950	0	1
3.75	0.0110	0	0.0110	13.9950	0	1
4.00	0.0060	0	0.0060	13.9950	0	1

TOTAL WT. 67.3690 grams
DIGESTED WT. 13.9950 grams
% SILICA 20.7736

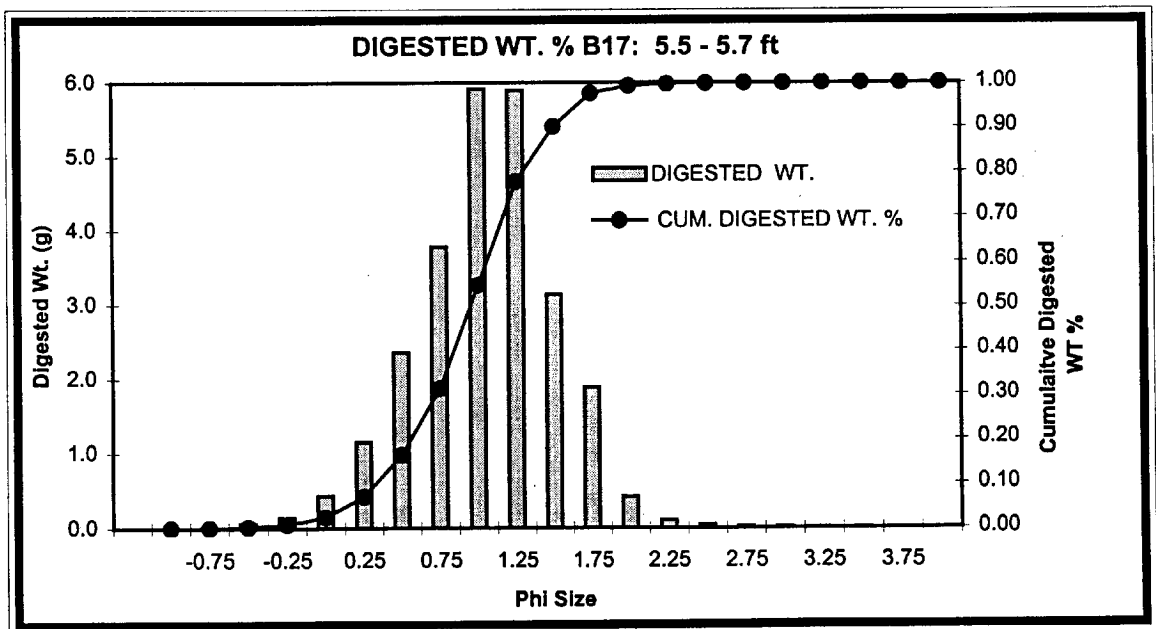


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B17: 5.5 - 5.7 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	3.6200	0	3.6200	0	0	0
-0.75	1.6150	0.0100	1.6050	0.0100	0.000393283	0.000393283
-0.50	2.1410	0.0630	2.0780	0.0730	0.002477681	0.002870964
-0.25	2.9640	0.1470	2.8170	0.2200	0.005781256	0.008652220
0.00	3.8140	0.4320	3.3820	0.6520	0.016989814	0.025642034
0.25	5.5600	1.1520	4.4080	1.8040	0.045306171	0.070948205
0.50	6.7610	2.3630	4.3980	4.1670	0.092932709	0.163880914
0.75	7.8490	3.7910	4.0580	7.9580	0.149093483	0.312974397
1.00	9.6080	5.9190	3.6890	13.8770	0.232784048	0.545758446
1.25	8.6770	5.8940	2.7830	19.7710	0.231800842	0.777559287
1.50	4.5510	3.1480	1.4030	22.9190	0.123805404	0.901364691
1.75	2.7060	1.8950	0.8110	24.8140	0.074527078	0.975891769
2.00	0.6260	0.4230	0.2030	25.2370	0.016635860	0.992527628
2.25	0.1550	0.1090	0.0460	25.3460	0.004286782	0.996814410
2.50	0.0680	0.0410	0.0270	25.3870	0.001612459	0.998426869
2.75	0.0390	0.0190	0.0200	25.4060	0.000747237	0.999174106
3.00	0.0310	0.0110	0.0200	25.4170	0.000432611	0.999606717
3.25	0.0260	0.0060	0.0200	25.4230	0.000235970	0.999842687
3.50	0.0110	0.0040	0.0070	25.4270	0.000157313	1
3.75	0.0160	0	0.0160	25.4270	0	1
4.00	0.0130	0	0.0130	25.4270	0	1

TOTAL WT. 60.8510 grams
DIGESTED WT. 25.4270 grams
% SILICA 41.7857

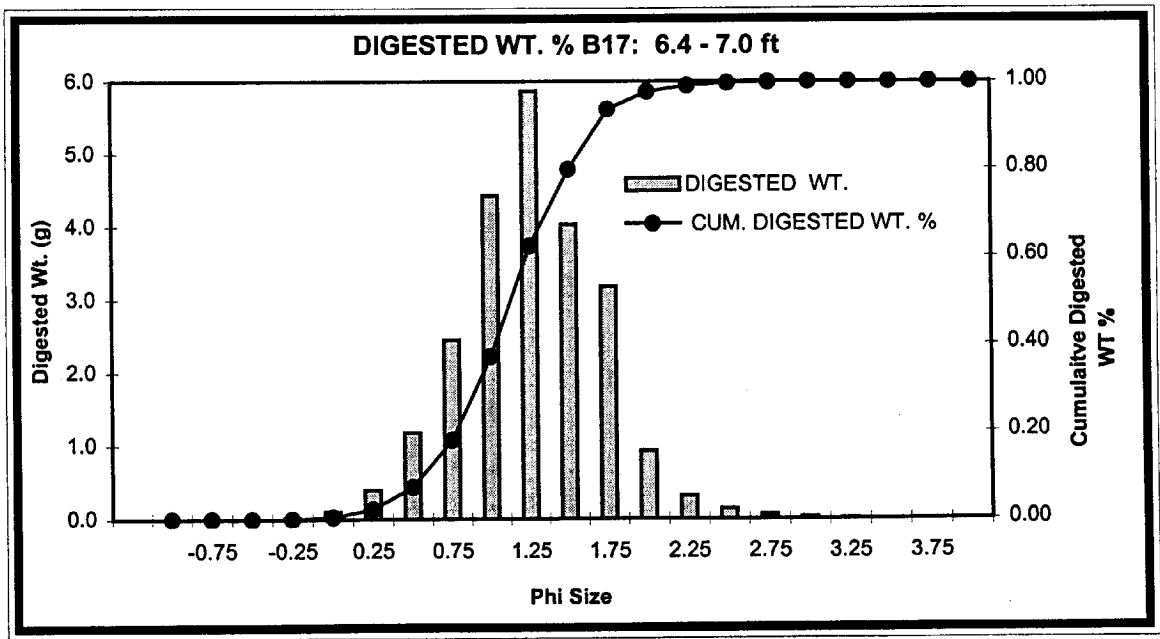


POST DIGESTION GRAIN SIZE DISTRIBUTION CHART

CORE B17: 6.4 - 7.0 ft

PHI	TOTAL WT.	DIGESTED WT.	CO3 WT.	CUM. WT.	DIGESTED WT. %	CUM. DIGESTED WT. %
-1.00	0.2050	0	0.2050	0	0	0
-0.75	0.2890	0	0.2890	0	0	0
-0.50	0.6500	0	0.6500	0	0	0
-0.25	0.9680	0.0200	0.9480	0.0200	0.000862887	0.000862887
0.00	1.8000	0.1050	1.6950	0.1250	0.004530158	0.005393045
0.25	3.0120	0.4000	2.6120	0.5250	0.017257744	0.022650790
0.50	4.1930	1.1860	3.0070	1.7110	0.051169212	0.073820002
0.75	5.2210	2.4570	2.7640	4.1680	0.106005695	0.179825697
1.00	7.7520	4.4310	3.3210	8.5990	0.191172664	0.370998361
1.25	8.1280	5.8720	2.2560	14.4710	0.253343688	0.624342048
1.50	5.7120	4.0350	1.6770	18.5060	0.174087497	0.798429545
1.75	4.6160	3.1880	1.4280	21.6940	0.137544223	0.935973768
2.00	1.4640	0.9370	0.5270	22.6310	0.040426266	0.976400035
2.25	0.4510	0.3170	0.1340	22.9480	0.013676762	0.990076797
2.50	0.2000	0.1370	0.0630	23.0850	0.005910777	0.995987574
2.75	0.1070	0.0600	0.0470	23.1450	0.002588662	0.998576236
3.00	0.0730	0.0250	0.0480	23.1700	0.001078609	0.999654845
3.25	0.0530	0.0080	0.0450	23.1780	0.000345155	1
3.50	0.0300	0	0.0300	23.1780	0	1
3.75	0.0270	0	0.0270	23.1780	0	1
4.00	0.0180	0	0.0180	23.1780	0	1

TOTAL WT. 44.9690 grams
DIGESTED WT. 23.1780 grams
% SILICA 51.5422



Appendix B

Grab Sample Lithology and Granulometric Analyses

BREVARD OFFSHORE GRAB SAMPLE LITHOLOGY

SAMPLE LOCATION	DESCRIPTION
GS-1	<p>Medium gray, speckled coquina limestone about 85 percent carbonate and 15 percent quartz. Carbonate is medium sand to gravel sized; white, yellowish-brown, brownish-gray, pinkish-gray, gray and black; and subangular to rounded. Limestone is moderately well-lithified with spar cement. Carbonate grains are shell or fossilized shell and shell debris with some whole valves. Shell is predominantly bivalve or gastropod mollusk. Larger shells are encrusted with barnacles and/or bryozoans, or show signs of algal boring. A few carbonate fragments are fossilized Sabellarid worm-rock. Traces of echinoids were also present. Quartz sand is medium to coarse grained; transparent; and subangular to subrounded. This sample may be biased by loss of finer materials during sample collection.</p>
GS-1A	<p>Brownish-gray, speckled sand composed of about 15 percent quartz grains, and 83 percent carbonate. Carbonate is fine sand to gravel sized; white, yellowish-brown, brownish-gray, pinkish-gray, gray and black; and subangular to rounded. Where present, cement is spar. Carbonate grains are shell or fossilized shell and shell debris with some whole valves. Shell is predominantly bivalve or gastropod mollusk. Larger shells show signs of algal boring. A few carbonate fragments are fossilized Sabellarid worm-rock. Other carbonates include bryozoans, miliolids and traces of echinoids. Quartz sand is medium to coarse grained; subangular to subrounded; and transparent. Less than one percent phosphate; a trace of heavy minerals. This sample may be biased by loss of finer sands during sample collection.</p>
GS-2	<p>Brownish-gray, sandy shell bed with fragments of speckled coquina-limestone. Limestone comprises about 50 percent of the sample; shell about 30 percent and quartz sand about 10 percent. Carbonate is medium sand to gravel sized; white, yellowish, brown, brownish-gray, pinkish-gray, gray and black. Rock fragments vary from 0.4 cm to about 5 cm in diameter and are rounded. Shell debris is medium sand to gravel sized; subangular to rounded; and includes well preserved whole valves and poorly preserved shell hash. Where present, cement is transparent spar. Shell hash is dominated by bivalve and gastropod mollusks, and includes fragments of echinoid spines. Both encrusting and cupuliform bryozoans are present. Quartz sand is very fine to coarse sand sized; transparent; and angular to subangular. Less than one percent heavy minerals; less than one percent phosphate.</p>

BREVARD OFFSHORE GRAB SAMPLE LITHOLOGY (cont.)

SAMPLE LOCATION	DESCRIPTION
GS-3	Brownish-gray, speckled sand composed of about 35 percent quartz grains, and 65 percent carbonate. Carbonate is fine sand to gravel sized; white, yellowish-brown, brownish-gray, pinkish gray, gray, green, blue and black; and subangular to rounded. Carbonate grains are rock fragments, shell, fossilized shell and shell debris with some whole valves. Shell is predominantly bivalve or gastropod mollusk. Larger shells show signs of algal boring. Other carbonates include bryozoans, miliolids and traces of echinoids. Quartz sand is medium to coarse grained; transparent; and subangular to subrounded. Less than one percent phosphate; traces of heavy minerals.
GS-4	Brownish-gray, speckled sand composed of about ten percent quartz grains, and 90 percent carbonate. Carbonate is fine sand to gravel sized; white, yellowish-brown, brownish-gray, pinkish-gray, gray, green, blue and black; and subangular to rounded. Carbonate grains are rock fragments, shell, fossilized shell and shell debris with some whole valves. Granule to gravel sized rock fragments (0.2 -4.0 cm) comprise 60 percent of the sample. Shell is predominantly bivalve or gastropod mollusk. Larger shells show signs of algal boring. Other carbonates include bryozoans, miliolids and traces of echinoids. Cement, where present, is transparent spar. Quartz fraction is bimodal: about ten percent of this is very fine to medium, subangular sand; the remainder is coarse sand to granule sized, and subrounded. This sample may be biased by loss of finer materials during sample collection.
GS-5	Brownish-gray, sandy shell bed with fragments of speckled coquina-limestone. Limestone comprises about 50 percent of the sample; shell about 30 percent and quartz sand about five percent. Larger valves and rock fragments range from three cm to about five cm in diameter. Cement is transparent spar. Shell is fresh and includes well preserved whole valves and gastropod shells. Sand sized carbonate includes medium to coarse grained, rounded shell hash and rock fragments. Both encrusting and cupuliform bryozoans are present. Fragments of fresh worm rock may indicate Sabellarid reef in this area. Quartz sand is very fine to medium sand sized, transparent, and angular to subangular. Less than one percent heavy minerals; less than one percent phosphate. This sample may be biased by loss of finer materials during sample collection.

BREVARD OFFSHORE GRAB SAMPLE LITHOLOGY (cont.)

SAMPLE LOCATION	DESCRIPTION
GS-16	<p>Medium light gray, speckled sand; about 70 percent quartz grains and about 30 percent carbonate. Carbonate is white, pinkish-gray, light medium gray, gray-blue and black. Carbonate grains are fresh shell, shell debris and fossilized shell, with few recognizable fossils or shells. Carbonates are subangular to rounded; and very fine sand to granule sized. A few granule sized whole mollusk valves and gastropods are present. Better preserved carbonates include benthic foraminifera, miliolids, and echinoid spines. Quartz is very fine sand to coarse grained, transparent, and angular to subrounded. The sample contains traces of heavy minerals and phosphates. Less than one percent of the sample is composed of transparent, needle-like crystals of calcium carbonate.</p>
GS-17	<p>Medium light gray, speckled sand; about 60 to 65 percent quartz grains and about 35 to 40 percent carbonate. Carbonate is very fine sand to granule sized; white to medium gray; and subangular to rounded. Carbonate grains are fresh shell, shell debris and fossilized shell, with few recognizable fossils or shells. A few granule sized whole mollusk valves and gastropods are present. Better preserved carbonates include benthic foraminifera, miliolids, and echinoid spines. Quartz is very fine to coarse sand, transparent, and angular to subrounded. The sample contains traces of heavy minerals and phosphates. Less than one percent of the sample is composed of transparent, needle-like crystals of calcium carbonate.</p>
GS-18	<p>Brownish-gray, light olive gray to medium light gray, speckled sand; about 65 percent quartz grains and about 35 percent carbonate. Carbonate is very fine sand to granule sized; white, very pale orange, yellowish-brown, and very light gray to medium gray; and subangular to rounded. Carbonate grains are shell debris, with few recognizable shells, and fragments of very pale orange to gray coquina rock. Cement is transparent spar. A few granule sized, whole mollusk shells are present. Better preserved carbonates include benthic foraminifera, miliolids, and echinoid spines. Quartz is very fine to medium sand; transparent; angular to subrounded; and well sorted. Less than one percent of the sample is composed of transparent, needle-like crystals of calcium carbonate.</p>

BREVARD OFFSHORE GRAB SAMPLE LITHOLOGY (cont.)

SAMPLE LOCATION	DESCRIPTION
GS-19	<p>Light olive gray to medium light gray, clay coated, speckled sand; about 75 percent quartz grains, 20 percent carbonate, and 4 percent silt to clay sized non-calcareous fines. Carbonate is silt to granule sized; white to medium gray; and subangular to rounded. Carbonate grains are shell debris, with few recognizable shells, and fragments of gray coquina rock. Cement is transparent spar or white calcilutite. A few granule sized, whole mollusk shells are present. Better preserved carbonates include benthic foraminifera, miliolids, sponge spicules and echinoid spines. Quartz is very fine to medium sand; transparent; angular to subrounded; and well sorted. Less than one percent of the sample is composed of transparent, needle-like crystals of calcium carbonate. About one percent heavy minerals and mica.</p>
GS-20	<p>Brownish-gray, sand composed of about 20 percent fragments of speckled coquina limestone, 35 percent shell and shell debris, and 45 percent quartz sand. Sand sized carbonate ranges from very fine to very coarse sand; is white, pinkish-gray, yellow, orange, green, brown, blue and gray; and is subangular to rounded. Shell includes well preserved whole valves and gastropod shells. Cement is transparent spar. Recognizable fossils and shell include encrusting and cupuliform bryozoans, and echinoid fragments. Quartz is very fine to coarse sand sized; transparent; and angular to subangular. Traces of heavy minerals and mica are present.</p>
GS-21	<p>Light olive gray to medium light gray, clay coated, speckled sand; about 50 percent quartz grains, 45 percent carbonate, and three percent silt to clay sized, non-calcareous fines. Carbonate is white to medium gray, shell debris, with few recognizable shells. Shell is subangular to rounded; very fine to very coarse sand sized. A few granule sized, whole mollusk shells are present. Better preserved carbonates include benthic foraminifera, miliolids, sponge spicules and echinoid spines. Quartz is very fine to medium sand; transparent; angular to subangular; and well sorted. Less than one percent of the sample is composed of transparent, needle-like crystals of calcium carbonate. About one percent heavy minerals and mica.</p>

BREVARD OFFSHORE GRAB SAMPLE LITHOLOGY (cont.)

SAMPLE LOCATION	DESCRIPTION
GS-21-2	Light olive gray to olive-black, clay coated sand; about 80 percent quartz grains, 15 percent carbonate, and three percent terrigenous fines and organic matter. Carbonate is very fine to very coarse sand sized; white to dark gray; subangular to rounded; shell debris, with few recognizable shells and shell fragments. A few granule sized, whole mollusk shells are present. Better preserved carbonates include benthic foraminifera, miliolids, and echinoid spines. Quartz is very fine to medium sand; transparent; angular to subangular; and well sorted. Less than one percent of the sample is composed of transparent, needle-like crystals of calcium carbonate. Also contains traces of mica and heavy minerals.
GS-22	Light olive gray to olive-black, muddy sand; about 80 percent quartz grains, ten percent carbonate, and seven percent silt to clay sized, non-calcareous fines and organic matter. Shell debris is very fine to very coarse sand sized white, pinkish-gray, yellow, orange, brown, blue, gray and black; subangular to rounded; with few recognizable shells and shell fragments. A few granule sized, whole mollusk shells are present. Better preserved carbonates include benthic foraminifera, miliolids, and echinoid spines. Quartz is very fine to medium sand transparent; angular to subangular; and well sorted. Less than percent of the sample is composed of transparent, needle-like crystals of calcium carbonate. Also contains one percent mica and one to two percent heavy minerals.
GS-23	Light gray, brownish-gray, speckled sand; about 50 percent quartz grains, and 50 percent carbonate. Carbonate is microcrystalline to very coarse sand sized; white, yellow, orange, brownish-gray and black; and subangular to rounded. Carbonate grains are shell debris, with few recognizable shells, and fragments of gray or brown coquina rock. Cement is transparent spar or white calcilutite. A few granule sized, whole mollusk shells are present. Other carbonates include cupuliform bryozoa and echinoid spines. Quartz is very fine to coarse sand; transparent; angular to subrounded; and well sorted. Less than one percent heavy minerals and mica.

BREVARD OFFSHORE GRAB SAMPLE LITHOLOGY (cont.)

SAMPLE LOCATION

DESCRIPTION

- GS-24 Brownish-gray to olive gray, clay coated, speckled sand composed of about 75 percent quartz grains, 20 percent carbonate, and five percent white, silt to clay sized calcilutite, and non-calcareous olive clay. Shell debris is microcrystalline to very coarse sand sized; white, pinkish-gray, yellow, orange, brown, blue, green, gray and black; subangular to rounded with few recognizable shells and shell fragments. A few granule sized, whole mollusk shells are present. Better preserved carbonates include benthic foraminifera, miliolids, and echinoid spines. Quartz is very fine to medium sand; transparent; angular to subangular; and well sorted. A trace of transparent, needle-like crystals of calcium carbonate. Also contains one percent mica.
- GS-25 Brownish-gray to olive gray, clay coated, speckled sand composed of about 30 percent quartz grains, 65 percent carbonate, and five percent white, silt to clay sized calcilutite, and non-calcareous olive clay. Shell debris is microcrystalline to very coarse sand sized; white, pinkish-gray, yellow, orange, red, brown, blue, green, gray and black, subangular to rounded; with few recognizable shells and shell fragments. A few granule sized, whole mollusk shells are present. Other carbonates include benthic foraminifera, miliolids, coral fragments and echinoid spines. Quartz is very fine to coarse sand; transparent; angular to subangular; and well sorted. Also contains one percent mica.
- GS-26 Light olive gray to olive-black, muddy fine sand; about 68 percent quartz grains, 25 percent carbonate, and five percent silt to clay sized, noncalcareous fines and organic matter. Shell debris is very fine to very coarse sand sized; white, pinkish-gray, yellow, orange, brown, blue, gray and black; subangular to rounded; with few recognizable shells and shell fragments. A few granule sized, whole mollusk shells are present. Better preserved carbonates include benthic foraminifera, miliolids, and echinoid spines. Quartz is very fine to medium sand; transparent; angular to subangular; and well sorted. Less than one percent of the sample is composed of transparent, needlelike crystals of calcium carbonate. Also one to two percent mica and less than one percent heavy minerals.

BREVARD OFFSHORE GRAB SAMPLE LITHOLOGY (cont.)

SAMPLE LOCATION

DESCRIPTION

GS-27

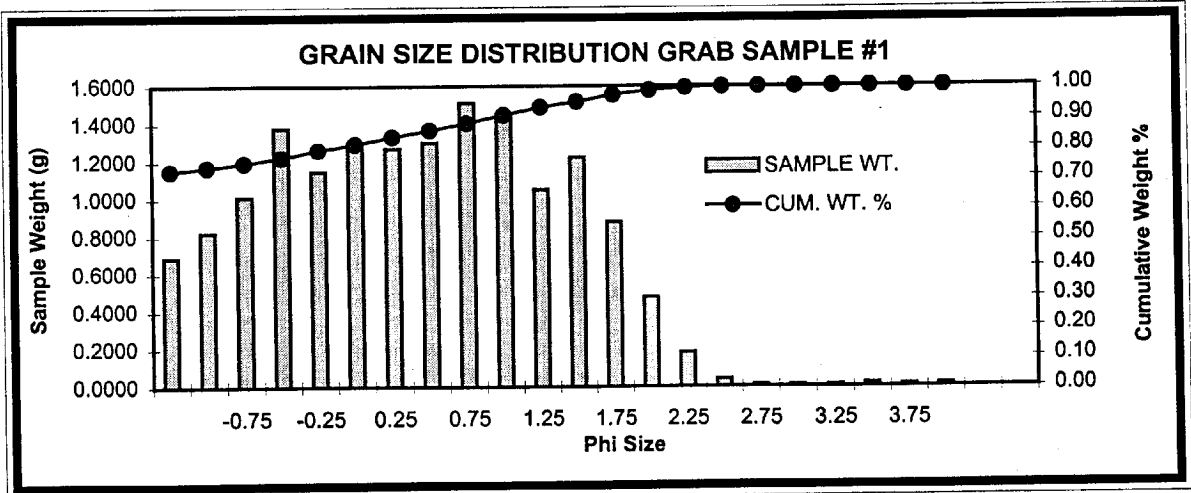
Brownish-gray, speckled sand composed of about 60 percent quartz grains, and 40 percent carbonate. Carbonate is fine sand to gravel sized; white, yellowish-brown, brownish-gray, pinkish-gray, gray, green, blue and black; and subangular to rounded. Carbonate grains are rock fragments, shell, fossilized shell and shell debris with some gravel sized whole valves. Shell is predominantly bivalve or gastropod mollusk. Larger shell show signs of algal boring. Other carbonates include cupuliform bryozoans, and echinoid spines. Quartz is very fine to coarse sand sized; transparent; and subangular to subrounded.

GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE # 1

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
-2.00	38.6280	38.6280	0.683826653	0.683826653
-1.75	0.5970	39.2250	0.010568616	0.694395270
-1.50	0.8300	40.0550	0.014693386	0.709088656
-1.25	0.6170	40.6720	0.010922674	0.720011330
-1.00	0.6890	41.3610	0.012197281	0.732208611
-0.75	0.8230	42.1840	0.014569466	0.746778077
-0.50	1.0140	43.1980	0.017950715	0.764728792
-0.25	1.3780	44.5760	0.024394562	0.789123354
0.00	1.1480	45.7240	0.020322900	0.809446254
0.25	1.3040	47.0280	0.023084549	0.832530803
0.50	1.2690	48.2970	0.022464948	0.854995751
0.75	1.3020	49.5990	0.023049143	0.878044894
1.00	1.5100	51.1090	0.026731341	0.904776236
1.25	1.4550	52.5640	0.025757683	0.930533919
1.50	1.0530	53.6170	0.018641127	0.949175046
1.75	1.2240	54.8410	0.021668319	0.970843365
2.00	0.8820	55.7230	0.015613936	0.986457301
2.25	0.4770	56.2000	0.008444271	0.994901572
2.50	0.1830	56.3830	0.003239626	0.998141198
2.75	0.0390	56.4220	0.000690412	0.998831610
3.00	0.0110	56.4330	0.000194732	0.999026342
3.25	0.0090	56.4420	0.000159326	0.999185668
3.50	0.0080	56.4500	0.000141623	0.999327291
3.75	0.0150	56.4650	0.000265543	0.999592834
4.00	0.0110	56.4760	0.000194732	0.999787566
>4.00	0.0120	56.4880	0.000212434	1.000000000

TOTAL WT.	56.488	grams	
MEDIAN WT.	28.244	grams	
MEAN GRAIN SIZE	< - 2.00	phi	> 4.00 mm

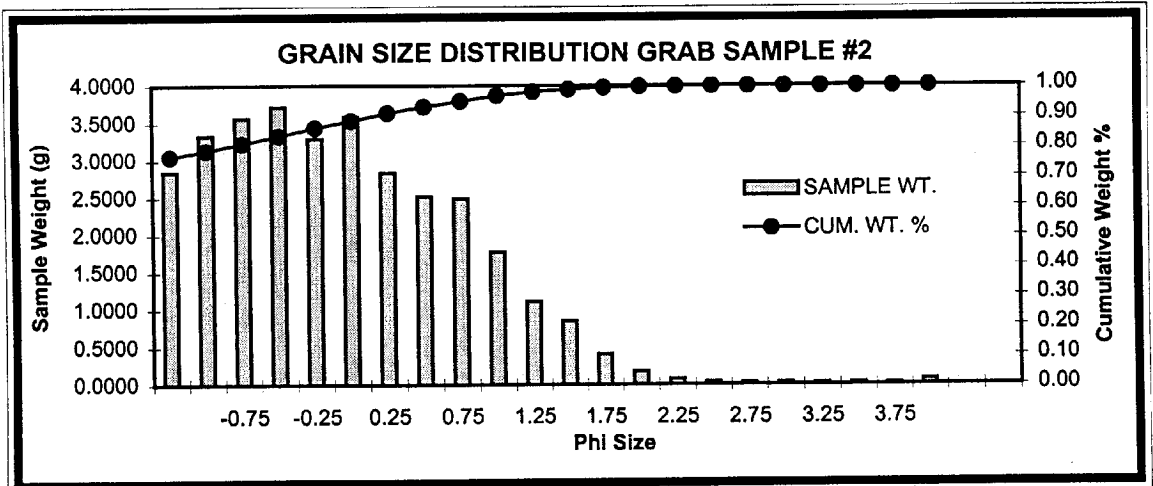


GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE # 2

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
-2.00	97.9620	97.9620	0.706068054	0.706068054
-1.75	2.6820	100.6440	0.019330705	0.725398759
-1.50	2.6590	103.3030	0.019164931	0.744563690
-1.25	2.6040	105.9070	0.018768514	0.763332204
-1.00	2.8460	108.7530	0.020512747	0.783844951
-0.75	3.3360	112.0890	0.024044456	0.807889407
-0.50	3.5710	115.6600	0.025738235	0.833627642
-0.25	3.7230	119.3830	0.026833786	0.860461429
0.00	3.3020	122.6850	0.023799399	0.884260828
0.25	3.5860	126.2710	0.025846349	0.910107177
0.50	2.8410	129.1120	0.020476709	0.930583885
0.75	2.5220	131.6340	0.018177494	0.948761379
1.00	2.4880	134.1220	0.017932436	0.966693815
1.25	1.7730	135.8950	0.012779023	0.979472838
1.50	1.1110	137.0060	0.008007611	0.987480449
1.75	0.8550	137.8610	0.006162473	0.993642923
2.00	0.4090	138.2700	0.002947896	0.996590819
2.25	0.1770	138.4470	0.001275740	0.997866559
2.50	0.0790	138.5260	0.000569398	0.998435957
2.75	0.0390	138.5650	0.000281095	0.998717052
3.00	0.0290	138.5940	0.000209020	0.998926072
3.25	0.0280	138.6220	0.000201812	0.999127884
3.50	0.0200	138.6420	0.000144151	0.999272035
3.75	0.0210	138.6630	0.000151359	0.999423394
4.00	0.0170	138.6800	0.000122529	0.999545923
>4.00	0.0630	138.7430	0.000454077	1.000000000

TOTAL WT. 138.743 grams
 MEDIAN WT. 69.3715 grams
 MEAN GRAIN SIZE < - 2.00 phi > 4.00 mm

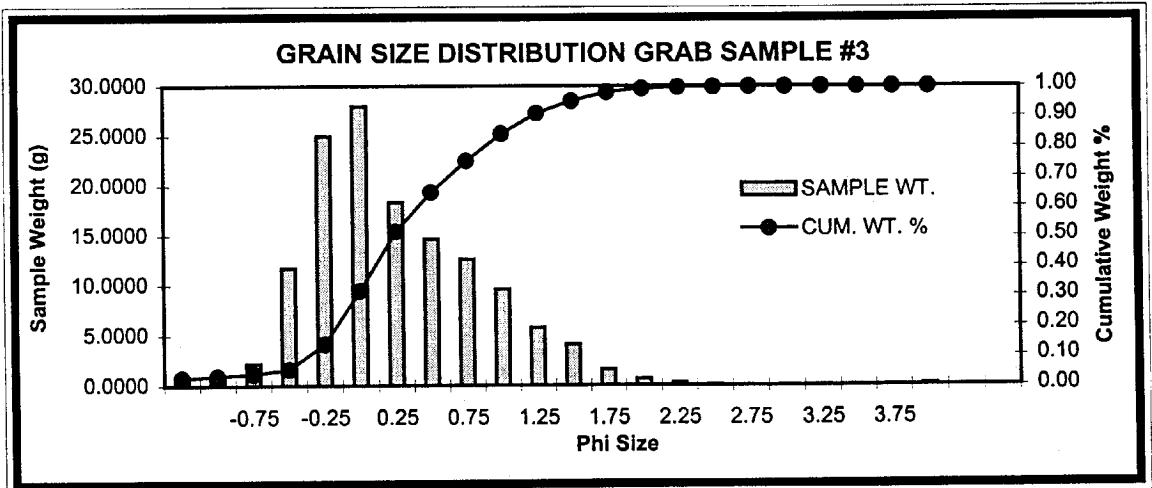


GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE # 3

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
-2.00	1.8350	1.8350	0.013086485	0.013086485
-1.75	0.2120	2.0470	0.001511899	0.014598384
-1.50	0.4270	2.4740	0.003045193	0.017643577
-1.25	0.9870	3.4610	0.007038889	0.024682466
-1.00	0.8780	4.3390	0.006261544	0.030944010
-0.75	0.9960	5.3350	0.007103073	0.038047083
-0.50	2.1670	7.5020	0.015454176	0.053501259
-0.25	11.7020	19.2040	0.083453976	0.136955235
0.00	25.0120	44.2160	0.178375564	0.315330799
0.25	27.9960	72.2120	0.199656257	0.514987056
0.50	18.3840	90.5960	0.131107323	0.646094380
0.75	14.6640	105.2600	0.104577774	0.750672153
1.00	12.6480	117.9080	0.090200469	0.840872623
1.25	9.6140	127.5220	0.068563197	0.909435819
1.50	5.7570	133.2790	0.041056618	0.950492437
1.75	4.1030	137.3820	0.029260952	0.979753389
2.00	1.5630	138.9450	0.011146690	0.990900079
2.25	0.6340	139.5790	0.004521434	0.995421513
2.50	0.2530	139.8320	0.001804295	0.997225808
2.75	0.0980	139.9300	0.000698897	0.997924705
3.00	0.0480	139.9780	0.000342317	0.998267021
3.25	0.0360	140.0140	0.000256738	0.998523759
3.50	0.0260	140.0400	0.000185422	0.998709181
3.75	0.0280	140.0680	0.000199685	0.998908865
4.00	0.0190	140.0870	0.000135500	0.999044366
>4.00	0.1340	140.2210	0.000955634	1.000000000

TOTAL WT.	140.221	grams	
MEDIAN WT.	70.1105	grams	
MEAN GRAIN SIZE	0.2312	phi	0.8519 mm



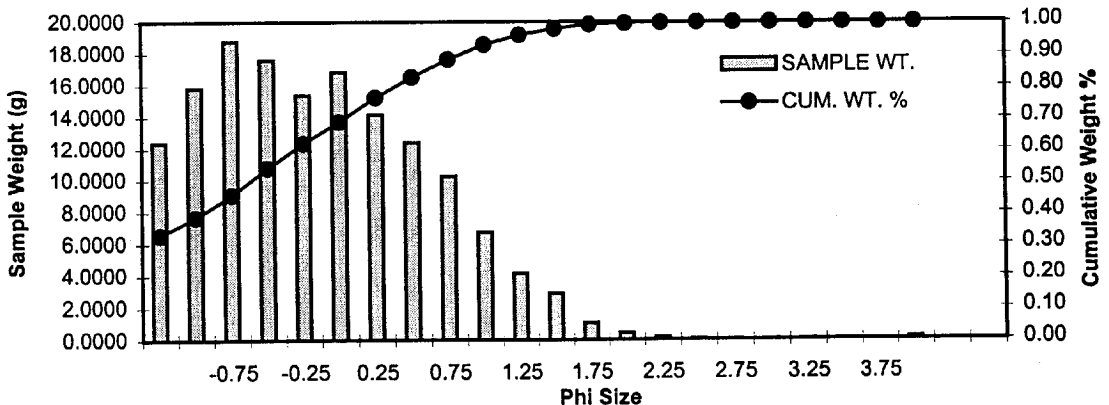
GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE # 4

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
-2.00	50.2830	50.2830	0.225712041	0.225712041
-1.75	4.9320	55.2150	0.022138929	0.247850971
-1.50	7.8410	63.0560	0.035196948	0.283047918
-1.25	10.1740	73.2300	0.045669397	0.328717316
-1.00	12.3670	85.5970	0.055513410	0.384230726
-0.75	15.8330	101.4300	0.071071709	0.455302435
-0.50	18.7810	120.2110	0.084304792	0.539607227
-0.25	17.6210	137.8320	0.079097744	0.618704971
0.00	15.4160	153.2480	0.069199865	0.687904837
0.25	16.8630	170.1110	0.075695208	0.763600045
0.50	14.1930	184.3040	0.063710021	0.827310066
0.75	12.4300	196.7340	0.055796207	0.883106273
1.00	10.3030	207.0370	0.046248457	0.929354730
1.25	6.7720	213.8090	0.030398384	0.959753114
1.50	4.1630	217.9720	0.018687016	0.978440130
1.75	2.9150	220.8870	0.013084951	0.991525081
2.00	1.0530	221.9400	0.004726742	0.996251824
2.25	0.4130	222.3530	0.001853888	0.998105712
2.50	0.1330	222.4860	0.000597015	0.998702727
2.75	0.0450	222.5310	0.000201998	0.998904724
3.00	0.0300	222.5610	0.000134665	0.999039390
3.25	0.0290	222.5900	0.000130176	0.999169566
3.50	0.0210	222.6110	0.000094266	0.999263831
3.75	0.0240	222.6350	0.000107732	0.999371563
4.00	0.0150	222.6500	0.000067333	0.999438896
>4.00	0.1250	222.7750	0.000561104	1.000000000

TOTAL WT.	222.775	grams	
MEDIAN WT.	111.3875	grams	
MEAN GRAIN SIZE	-0.6175	phi	1.5342 mm

GRAIN SIZE DISTRIBUTION GRAB SAMPLE #4

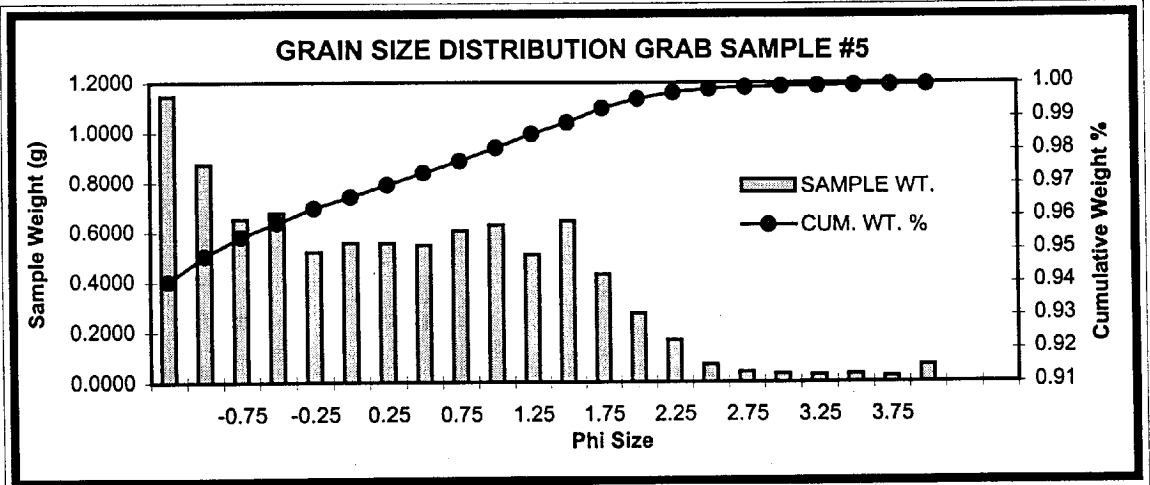


GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE # 5

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
-2.00	136.4300	136.4300	0.897353258	0.897353258
-1.75	2.7780	139.2080	0.018271988	0.915625247
-1.50	2.0310	141.2390	0.013358678	0.928983925
-1.25	1.7110	142.9500	0.011253914	0.940237838
-1.00	1.1460	144.0960	0.007537688	0.947775527
-0.75	0.8740	144.9700	0.005748638	0.953524165
-0.50	0.6510	145.6210	0.004281881	0.957806046
-0.25	0.6770	146.2980	0.004452893	0.962258939
0.00	0.5200	146.8180	0.003420243	0.965679181
0.25	0.5590	147.3770	0.003676761	0.969355942
0.50	0.5580	147.9350	0.003670183	0.973026125
0.75	0.5490	148.4840	0.003610987	0.976637112
1.00	0.6070	149.0910	0.003992475	0.980629588
1.25	0.6290	149.7200	0.004137178	0.984766766
1.50	0.5110	150.2310	0.003361046	0.988127812
1.75	0.6450	150.8760	0.004242416	0.992370228
2.00	0.4310	151.3070	0.002834855	0.995205083
2.25	0.2730	151.5800	0.001795627	0.997000710
2.50	0.1670	151.7470	0.001098424	0.998099134
2.75	0.0680	151.8150	0.000447262	0.998546397
3.00	0.0390	151.8540	0.000256518	0.998802915
3.25	0.0320	151.8860	0.000210476	0.999013392
3.50	0.0280	151.9140	0.000184167	0.999197558
3.75	0.0310	151.9450	0.000203899	0.999401458
4.00	0.0230	151.9680	0.000151280	0.999552738
>4.00	0.0680	152.0360	0.000447262	1.000000000

TOTAL WT.	152.036	grams	
MEDIAN WT.	76.018	grams	
MEAN GRAIN SIZE	< - 2.00	phi	> 4.00 mm



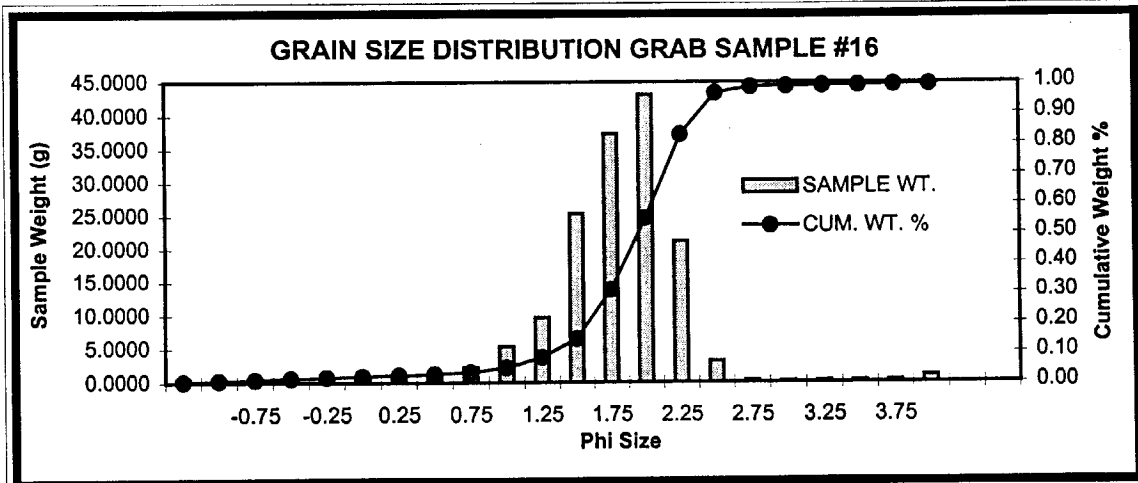
GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE # 16

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
-2.00	0	0	0	0
-1.75	0.1090	0.1090	0.000703180	0.000703180
-1.50	0.0990	0.2080	0.000638668	0.001341849
-1.25	0.3600	0.5680	0.002322431	0.003664280
-1.00	0.5050	1.0730	0.003257854	0.006922134
-0.75	0.4760	1.5490	0.003070770	0.009992904
-0.50	0.5620	2.1110	0.003625573	0.013618476
-0.25	0.5190	2.6300	0.003348171	0.016966647
0.00	0.5270	3.1570	0.003399781	0.020366428
0.25	0.5550	3.7120	0.003580414	0.023946842
0.50	0.5620	4.2740	0.003625573	0.027572415
0.75	0.9410	5.2150	0.006070576	0.033642991
1.00	2.2210	7.4360	0.014328108	0.047971099
1.25	5.3210	12.7570	0.034326818	0.082297916
1.50	9.6890	22.4460	0.062505645	0.144803561
1.75	25.3730	47.8190	0.163686214	0.308489775
2.00	37.3520	85.1710	0.240965099	0.549454874
2.25	43.1470	128.3180	0.278349784	0.827804658
2.50	21.2300	149.5480	0.136958906	0.964763564
2.75	3.1660	152.7140	0.020424489	0.985188052
3.00	0.3270	153.0410	0.002109541	0.987297594
3.25	0.2630	153.3040	0.001696665	0.988994258
3.50	0.2250	153.5290	0.001451519	0.990445778
3.75	0.2380	153.7670	0.001535385	0.991981163
4.00	0.2920	154.0590	0.001883749	0.993864912
>4.00	0.9510	155.0100	0.006135088	1.000000000

TOTAL WT. 155.01 grams
 MEDIAN WT. 77.505 grams
 MEAN GRAIN SIZE 1.9587 phi 0.2591 mm

1.1% Fines



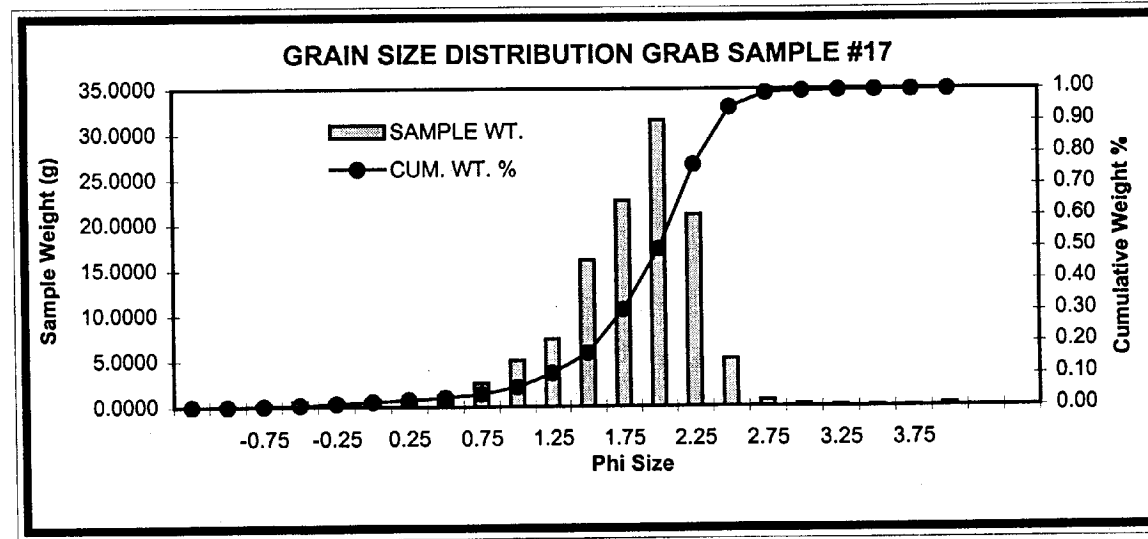
GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE # 17

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
-2.00	0	0	0	0
-1.75	0	0	0	0
-1.50	0	0	0	0
-1.25	0	0	0	0
-1.00	0.0450	0.0450	0.000381793	0.000381793
-0.75	0.1680	0.2130	0.001425360	0.001807152
-0.50	0.3260	0.5390	0.002765876	0.004573028
-0.25	0.6050	1.1440	0.005132991	0.009706020
0.00	0.6130	1.7570	0.005200865	0.014906885
0.25	0.7560	2.5130	0.006414118	0.021321003
0.50	0.8580	3.3710	0.007279515	0.028600518
0.75	1.2440	4.6150	0.010554448	0.039154965
1.00	2.5870	7.2020	0.021948840	0.061103805
1.25	5.0610	12.2630	0.042938956	0.104042761
1.50	7.3810	19.6440	0.062622492	0.166665253
1.75	16.1030	35.7470	0.136622407	0.303287660
2.00	22.6790	58.4260	0.192415051	0.495702711
2.25	31.5500	89.9760	0.267679124	0.763381835
2.50	21.1410	111.1170	0.179366224	0.942748059
2.75	5.2330	116.3500	0.044398252	0.987146311
3.00	0.6650	117.0150	0.005642048	0.992788360
3.25	0.2330	117.2480	0.001976838	0.994765197
3.50	0.1310	117.3790	0.001111441	0.995876639
3.75	0.1230	117.5020	0.001043567	0.996920205
4.00	0.0760	117.5780	0.000644805	0.997565011
>4.00	0.2870	117.8650	0.002434989	1.000000000

TOTAL WT.	117.865	grams	
MEDIAN WT.	58.9325	grams	
MEAN GRAIN SIZE	2.004	phi	0.2493 mm

0.0052% fines

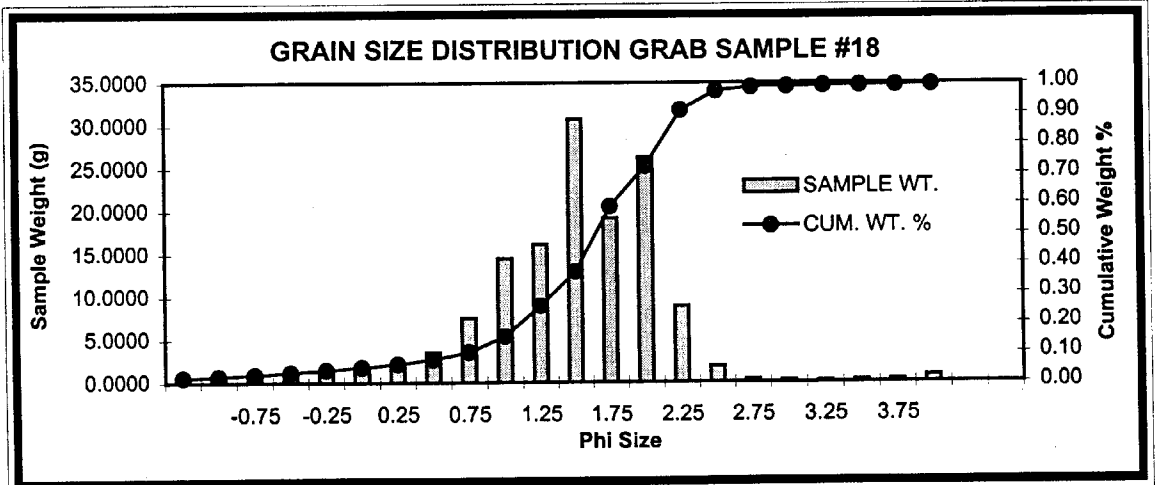


GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE # 18

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
-2.00	0.5310	0.5310	0.003752571	0.003752571
-1.75	0.6840	1.2150	0.004833820	0.008586390
-1.50	0.4640	1.6790	0.003279082	0.011865473
-1.25	0.6930	2.3720	0.004897423	0.016762895
-1.00	0.6570	3.0290	0.004643011	0.021405907
-0.75	0.7940	3.8230	0.005611188	0.027017095
-0.50	1.0430	4.8660	0.007370868	0.034387964
-0.25	1.1260	5.9920	0.007957428	0.042345392
0.00	1.0930	7.0850	0.007724218	0.050069610
0.25	1.6100	8.6950	0.011377851	0.061447460
0.50	2.0490	10.7440	0.014480258	0.075927719
0.75	3.4550	14.1990	0.024416443	0.100344162
1.00	7.5210	21.7200	0.053150817	0.153494979
1.25	14.4830	36.2030	0.102351187	0.255846166
1.50	16.1810	52.3840	0.114350932	0.370197098
1.75	30.7690	83.1530	0.217444153	0.587641251
2.00	19.2430	102.3960	0.135990050	0.723631301
2.25	26.3710	128.7670	0.186363540	0.909994841
2.50	8.8860	137.6530	0.062797255	0.972792096
2.75	1.8710	139.5240	0.013222335	0.986014431
3.00	0.3250	139.8490	0.002296771	0.988311202
3.25	0.2290	140.0780	0.001618340	0.989929542
3.50	0.1650	140.2430	0.001166053	0.991095595
3.75	0.2340	140.4770	0.001653675	0.992749270
4.00	0.2540	140.7310	0.001795015	0.994544285
>4.00	0.7720	141.5030	0.005455715	1.000000000

TOTAL WT.	141.503	grams	
MEDIAN WT.	70.7515	grams	
MEAN GRAIN SIZE	1.6492	phi	0.3188 mm

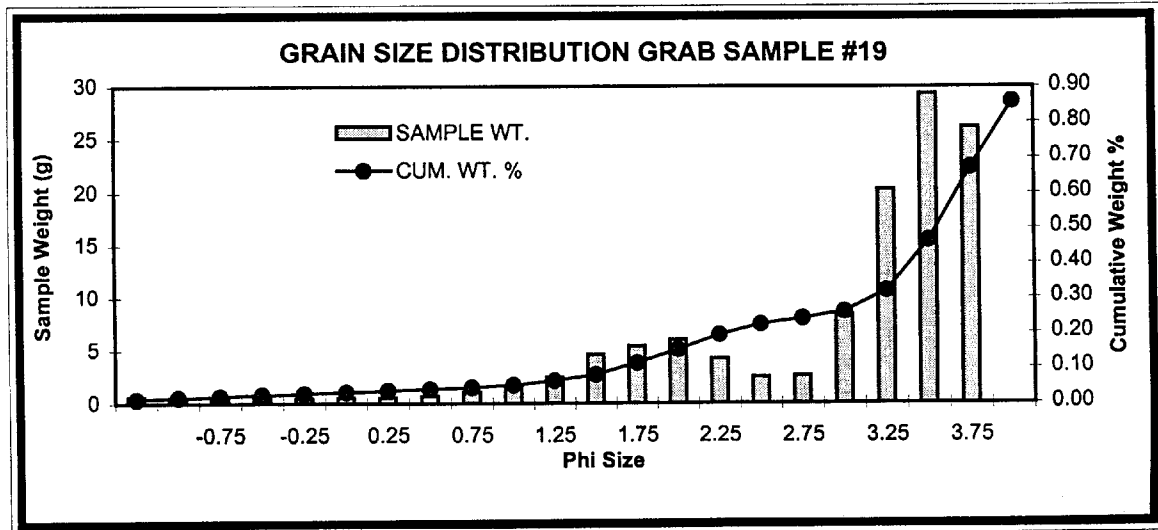


GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE # 19

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
-2.00	0.5780	0.5780	0.004091601	0.004091601
-1.75	0.0980	0.6760	0.000693732	0.004785333
-1.50	0.1760	0.8520	0.001245885	0.006031218
-1.25	0.8370	1.6890	0.005925035	0.011956252
-1.00	0.634	2.3230	0.004488019	0.016444271
-0.75	0.572	2.8950	0.004049128	0.020493399
-0.50	0.557	3.4520	0.003942944	0.024436343
-0.25	0.601	4.0530	0.004254415	0.028690759
0.00	0.5130	4.5660	0.003631473	0.032322231
0.25	0.5390	5.1050	0.003815524	0.036137755
0.50	0.5490	5.6540	0.003886313	0.040024068
0.75	0.6570	6.3110	0.004650834	0.044674902
1.00	1.0720	7.3830	0.007588575	0.052263476
1.25	1.6670	9.0500	0.011800517	0.064063993
1.50	2.4480	11.4980	0.017329133	0.081393126
1.75	4.5740	16.0720	0.032378862	0.113771989
2.00	5.4240	21.4960	0.038395923	0.152167911
2.25	6.0010	27.4970	0.042480445	0.194648356
2.50	4.2300	31.7270	0.029943723	0.224592079
2.75	2.5050	34.2320	0.017732630	0.242324709
3.00	2.6100	36.8420	0.018475914	0.260800623
3.25	8.4090	45.2510	0.059526422	0.320327045
3.50	20.3220	65.5730	0.143857289	0.464184334
3.75	29.3300	94.9030	0.207623969	0.671808304
4.00	26.1710	121.0740	0.185261742	0.857070046
>4.00	20.191	141.2650	0.142929954	1.000000000

TOTAL WT.	141.265	grams	
MEDIAN WT.	70.6325	grams	
MEAN GRAIN SIZE	3.5431	phi	0.0858 mm

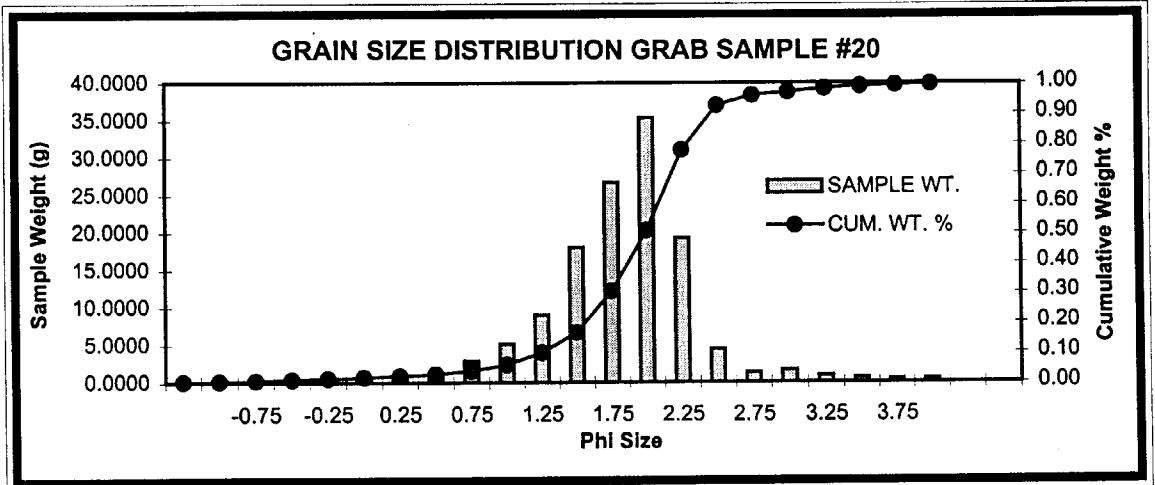


GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE # 20

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
-2.00	0.0570	0.0570	0.000435331	0.000435331
-1.75	0.0680	0.1250	0.000519342	0.000954672
-1.50	0.0500	0.1750	0.000381869	0.001336541
-1.25	0.2040	0.3790	0.001558025	0.002894566
-1.00	0.2190	0.5980	0.001672586	0.004567152
-0.75	0.2980	0.8960	0.002275938	0.006843090
-0.50	0.4300	1.3260	0.003284072	0.010127162
-0.25	0.4230	1.7490	0.003230611	0.013357773
0.00	0.4670	2.2160	0.003566655	0.016924428
0.25	0.6460	2.8620	0.004933746	0.021858174
0.50	0.8350	3.6970	0.006377210	0.028235384
0.75	1.2420	4.9390	0.009485623	0.037721007
1.00	2.8370	7.7760	0.021667239	0.059388246
1.25	5.1080	12.8840	0.039011723	0.098399969
1.50	8.9060	21.7900	0.068018482	0.166418452
1.75	18.0290	39.8190	0.137694276	0.304112728
2.00	26.6970	66.5160	0.203895062	0.508007790
2.25	35.3600	101.8760	0.270057662	0.778065452
2.50	19.3150	121.1910	0.147515943	0.925581395
2.75	4.4280	125.6190	0.033818307	0.959399702
3.00	1.3160	126.9350	0.010050789	0.969450491
3.25	1.6600	128.5950	0.012678046	0.982128537
3.50	0.8800	129.4750	0.006720892	0.988849429
3.75	0.6180	130.0930	0.004719899	0.993569328
4.00	0.3700	130.4630	0.002825830	0.996395158
>4.00	0.4720	130.9350	0.003604842	1.000000000

TOTAL WT.	130.935	grams	
MEDIAN WT.	65.4675	grams	
MEAN GRAIN SIZE	1.9902	phi	0.2517 mm

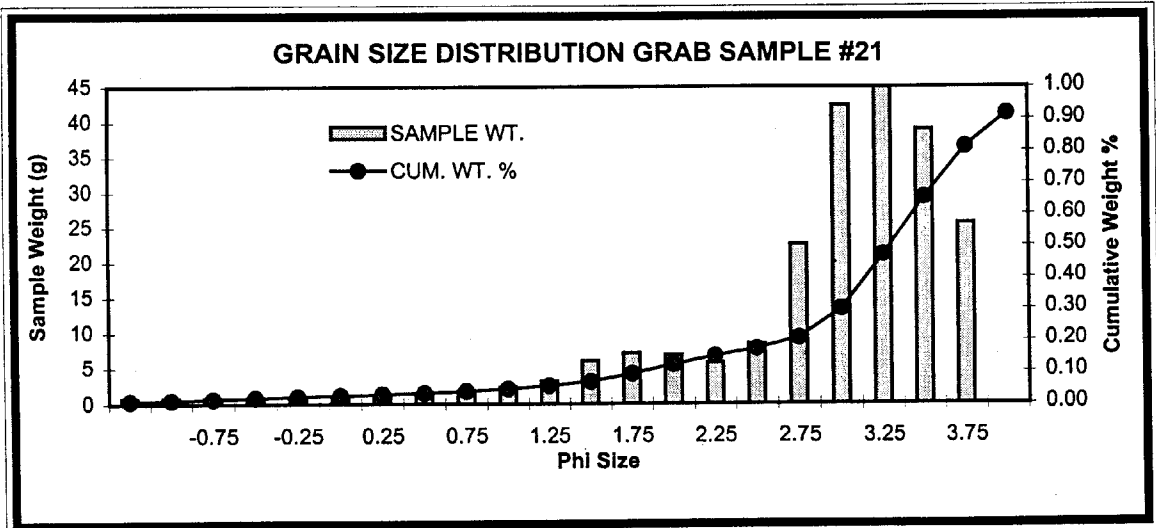


GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE # 21

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
-2.00	1.0010	1.0010	0.004056425	0.004056425
-1.75	0.3330	1.3340	0.001349440	0.005405865
-1.50	0.4020	1.7360	0.001629054	0.007034919
-1.25	0.5360	2.2720	0.002172072	0.009206991
-1.00	0.775	3.0470	0.003140589	0.012347580
-0.75	0.828	3.8750	0.003355365	0.015702945
-0.50	0.876	4.7510	0.003549879	0.019252823
-0.25	0.93	5.6810	0.003768707	0.023021530
0.00	0.8750	6.5560	0.003545826	0.026567357
0.25	1.0320	7.5880	0.004182049	0.030749405
0.50	0.9550	8.5430	0.003870016	0.034619421
0.75	1.1690	9.7120	0.004737224	0.039356645
1.00	1.8490	11.5610	0.007492837	0.046849483
1.25	2.3560	13.9170	0.009547390	0.056396873
1.50	3.1470	17.0640	0.012752817	0.069149691
1.75	6.0420	23.1060	0.024484437	0.093634127
2.00	7.1340	30.2400	0.028909628	0.122543755
2.25	6.8520	37.0920	0.027766859	0.150310614
2.50	5.8100	42.9020	0.023544286	0.173854901
2.75	8.5280	51.4300	0.034558636	0.208413537
3.00	22.6810	74.1110	0.091911869	0.300325406
3.25	42.3760	116.4870	0.171723353	0.472048758
3.50	44.9100	161.3970	0.181992065	0.654040824
3.75	39.0040	200.4010	0.158058751	0.812099575
4.00	25.7140	226.1150	0.104202716	0.916302291
>4.00	20.654	246.7690	0.083697709	1.000000000

TOTAL WT.	246.769	grams	
MEDIAN WT.	123.3845	grams	
MEAN GRAIN SIZE	3.2884	phi	0.1024 mm

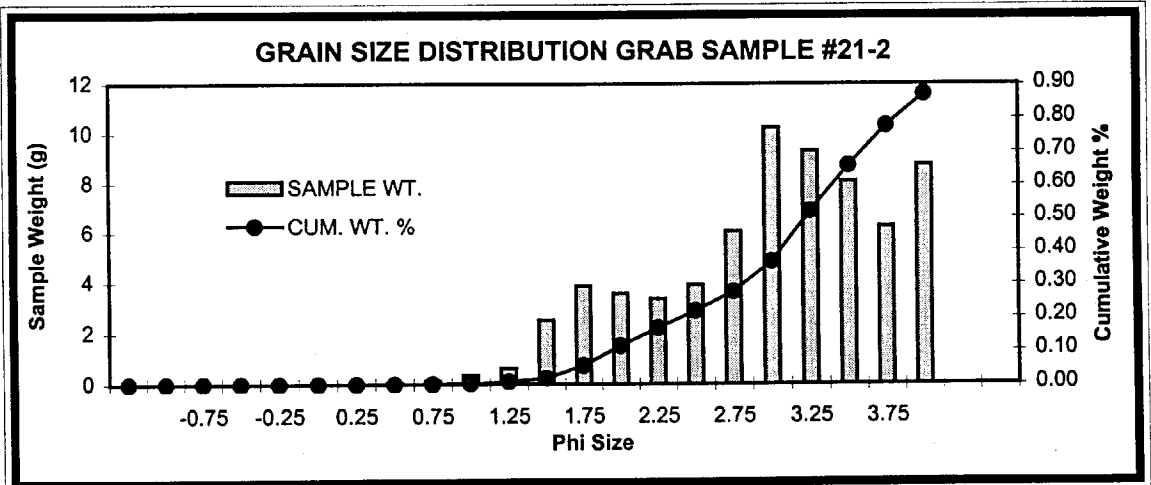


GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE # 21-2

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
-2.00	0	0	0	0
-1.75	0	0	0	0
-1.50	0	0	0	0
-1.25	0	0	0	0
-1.00	0	0	0	0
-0.75	0	0	0	0
-0.50	0	0	0	0
-0.25	0	0	0	0
0.00	0	0	0	0
0.25	0	0	0	0
0.50	0.0040	0.0040	0.000059387	0.000059387
0.75	0.0670	0.0710	0.000994729	0.001054116
1.00	0.1400	0.2110	0.002078539	0.003132655
1.25	0.3760	0.5870	0.005582362	0.008715017
1.50	0.6320	1.2190	0.009383119	0.018098137
1.75	2.5190	3.7380	0.037398857	0.055496994
2.00	3.8850	7.6230	0.057679460	0.113176453
2.25	3.5780	11.2010	0.053121520	0.166297973
2.50	3.3700	14.5710	0.050033405	0.216331379
2.75	3.9310	18.5020	0.058362408	0.274693787
3.00	6.0740	24.5760	0.090178903	0.364872689
3.25	10.2670	34.8430	0.152431148	0.517303838
3.50	9.3210	44.1640	0.138386163	0.655690001
3.75	8.1100	52.2740	0.120406800	0.776096801
4.00	6.2970	58.5710	0.093489719	0.869586519
>4.00	8.7840	67.3550	0.130413481	1.000000000

TOTAL WT.	67.355	grams	
MEDIAN WT.	33.6775	grams	
MEAN GRAIN SIZE	3.2216	phi	0.1072 mm

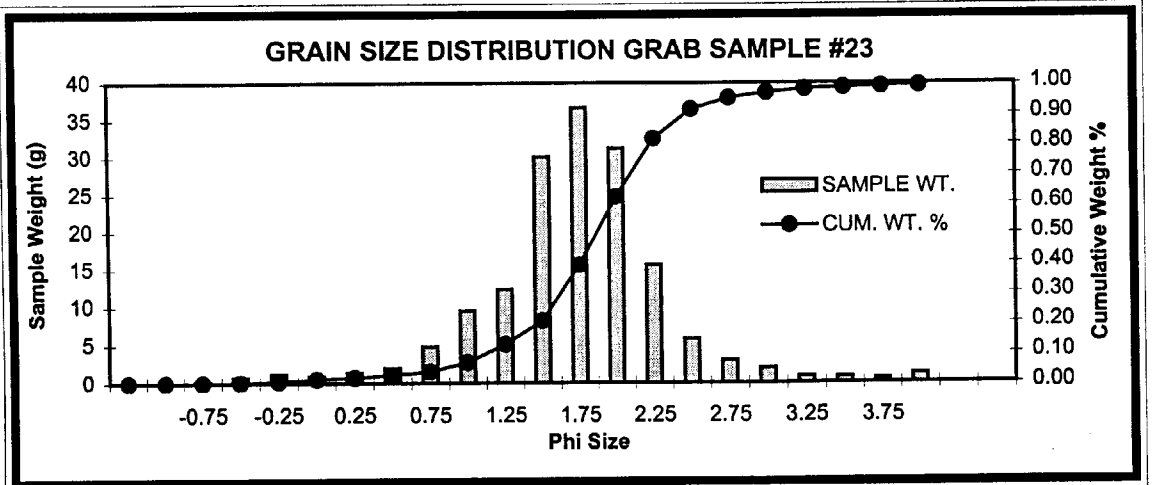


GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE # 23

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
-2.00	0	0	0	0
-1.75	0	0	0	0
-1.50	0	0	0	0
-1.25	0	0	0	0
-1.00	0	0	0	0
-0.75	0	0	0	0
-0.50	0.1670	0.1670	0.001038157	0.001038157
-0.25	0.6690	0.8360	0.004158844	0.005197001
0.00	1.1550	1.9910	0.007180067	0.012377069
0.25	0.9060	2.8970	0.005632157	0.018009225
0.50	1.3560	4.2530	0.008429586	0.026438811
0.75	1.9640	6.2170	0.012209223	0.038648034
1.00	4.8570	11.0740	0.030193582	0.068841616
1.25	9.5520	20.6260	0.059380090	0.128221706
1.50	12.4370	33.0630	0.077314717	0.205536423
1.75	30.1580	63.2210	0.187477465	0.393013888
2.00	36.7300	99.9510	0.228332359	0.621346247
2.25	31.3000	131.2510	0.194576718	0.815922965
2.50	15.6790	146.9300	0.097468638	0.913391603
2.75	5.7480	152.6780	0.035732491	0.949124094
3.00	2.9310	155.6090	0.018220587	0.967344681
3.25	1.9950	157.6040	0.012401935	0.979746615
3.50	0.7980	158.4020	0.004960774	0.984707389
3.75	0.7460	159.1480	0.004637515	0.989344904
4.00	0.5270	159.6750	0.003276100	0.992621004
>4.00	1.1870	160.8620	0.007378996	1.000000000

TOTAL WT.	160.862	grams	
MEDIAN WT.	80.431	grams	
MEAN GRAIN SIZE	1.8671	phi	0.2741 mm



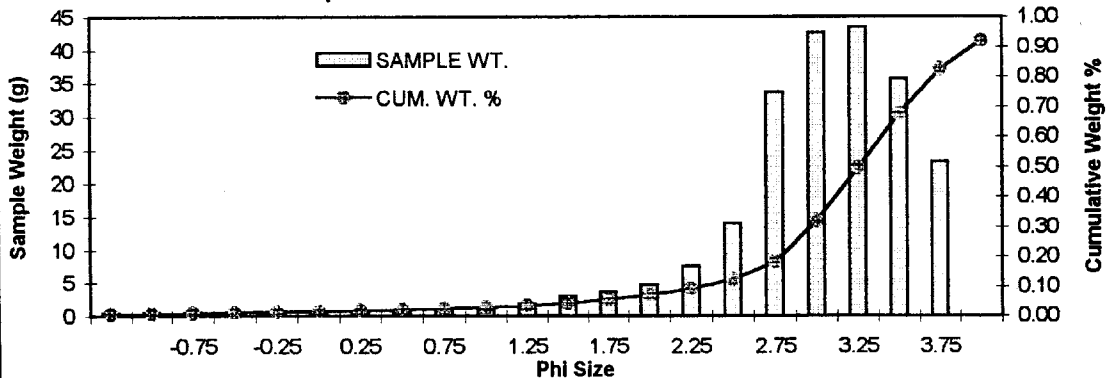
GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE # 24

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
-2.00	0.9840	0.9840	0.004077540	0.004077540
-1.75	0.1650	1.1490	0.000683734	0.004761273
-1.50	0.0530	1.2020	0.000219624	0.004980897
-1.25	0.2080	1.4100	0.000861919	0.005842816
-1.00	0.443	1.8530	0.001835722	0.007678537
-0.75	0.599	2.4520	0.002482161	0.010160698
-0.50	0.537	2.9890	0.002225243	0.012385941
-0.25	0.578	3.5670	0.002395140	0.014781081
0.00	0.5520	4.1190	0.002287400	0.017068481
0.25	0.6200	4.7390	0.002569181	0.019637663
0.50	0.5910	5.3300	0.002449010	0.022086673
0.75	0.6900	6.0200	0.002859250	0.024945923
1.00	1.0130	7.0330	0.004197711	0.029143634
1.25	1.3340	8.3670	0.005527884	0.034671518
1.50	1.8870	10.2540	0.007819428	0.042490946
1.75	3.0220	13.2760	0.012522688	0.055013633
2.00	3.7130	16.9890	0.015386082	0.070399715
2.25	4.7790	21.7680	0.019803416	0.090203131
2.50	7.5540	29.3220	0.031302575	0.121505706
2.75	14.0560	43.3780	0.058245829	0.179751535
3.00	33.6960	77.0740	0.139630867	0.319382402
3.25	42.5750	119.6490	0.176424031	0.495806433
3.50	43.4910	163.1400	0.180219789	0.676026222
3.75	35.5760	198.7160	0.147421288	0.823447510
4.00	23.1970	221.9130	0.096124680	0.919572190
>4.00	19.409	241.3220	0.080427810	1.000000000

TOTAL WT.	241.322	grams	
MEDIAN WT.	120.661	grams	
MEAN GRAIN SIZE	3.2558	phi	0.1047 mm

GRAIN SIZE DISTRIBUTION GRAB SAMPLE #22

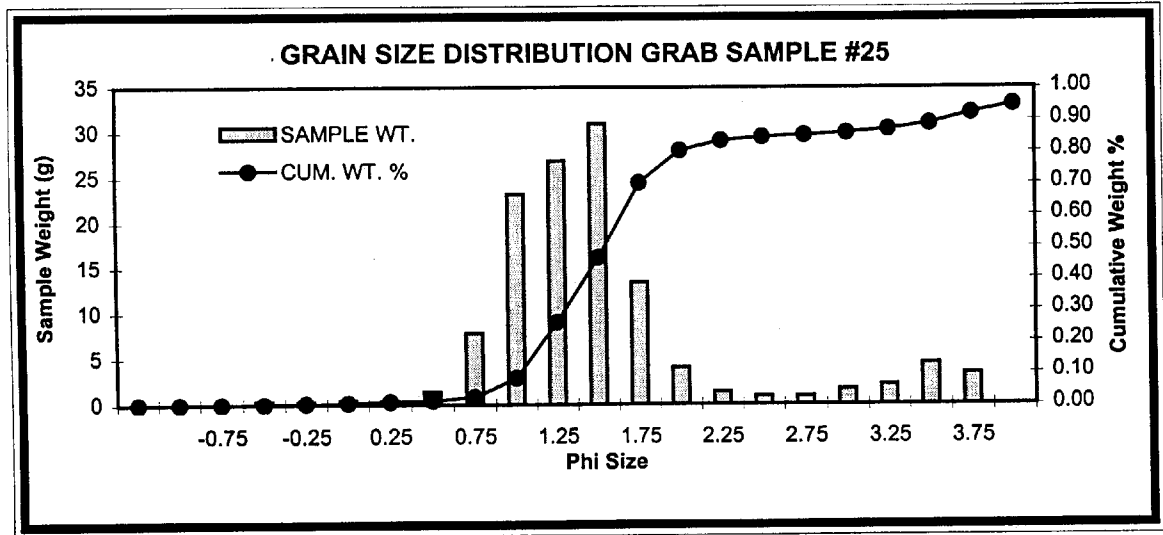


GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE # 25

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
-2.00	0	0	0	0
-1.75	0	0	0	0
-1.50	0	0	0	0
-1.25	0	0	0	0
-1.00	0	0	0	0
-0.75	0	0	0	0
-0.50	0	0	0	0
-0.25	0.363	0.3630	0.002758002	0.002758002
0.00	0.3080	0.6710	0.002340123	0.005098126
0.25	0.4980	1.1690	0.003783706	0.008881831
0.50	0.4660	1.6350	0.003540576	0.012422407
0.75	1.4310	3.0660	0.010872456	0.023294863
1.00	7.8440	10.9100	0.059597165	0.082892028
1.25	23.2600	34.1700	0.176724891	0.259616919
1.50	26.9090	61.0790	0.204449273	0.464066192
1.75	30.9960	92.0750	0.235501493	0.699567685
2.00	13.4720	105.5470	0.102357598	0.801925283
2.25	4.0690	109.6160	0.030915459	0.832840742
2.50	1.4040	111.0200	0.010667315	0.843508057
2.75	0.8730	111.8930	0.006632882	0.850140939
3.00	0.9340	112.8270	0.007096348	0.857237287
3.25	1.6240	114.4510	0.012338832	0.869576119
3.50	2.1650	116.6160	0.016449243	0.886025361
3.75	4.4930	121.1090	0.034136928	0.920162289
4.00	3.4140	124.5230	0.025938898	0.946101188
>4.00	7.094	131.6170	0.053898812	1.000000000

TOTAL WT.	131.617	grams	
MEDIAN WT.	65.8085	grams	
MEAN GRAIN SIZE	1.5381	phi	0.3343 mm

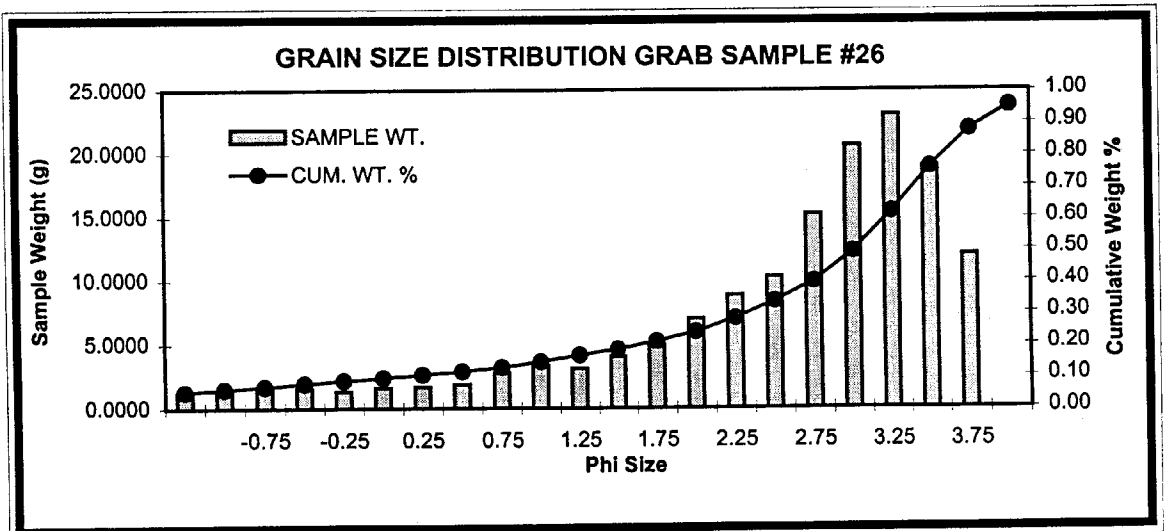


GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE # 26

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
-2.00	4.6060	4.6060	0.028218025	0.028218025
-1.75	1.2260	5.8320	0.007510920	0.035728945
-1.50	1.1060	6.9380	0.006775757	0.042504702
-1.25	1.4890	8.4270	0.009122154	0.051626856
-1.00	1.2730	9.7000	0.007798859	0.059425715
-0.75	1.3940	11.0940	0.008540149	0.067965864
-0.50	1.6040	12.6980	0.009826685	0.077792549
-0.25	1.5700	14.2680	0.009618389	0.087410938
0.00	1.3510	15.6190	0.008276716	0.095687654
0.25	1.6040	17.2230	0.009826685	0.105514339
0.50	1.7030	18.9260	0.010433195	0.115947534
0.75	1.8930	20.8190	0.011597204	0.127544738
1.00	2.7950	23.6140	0.017123183	0.144667921
1.25	3.3010	26.9150	0.020223122	0.164891043
1.50	3.0950	30.0100	0.018961091	0.183852134
1.75	3.9930	34.0030	0.024462565	0.208314699
2.00	4.9040	38.9070	0.030043681	0.238358380
2.25	6.9870	45.8940	0.042804894	0.281163274
2.50	8.8470	54.7410	0.054199928	0.335363201
2.75	10.3060	65.0470	0.063138290	0.398501492
3.00	15.2820	80.3290	0.093623069	0.492124561
3.25	20.6520	100.9810	0.126521635	0.618646196
3.50	23.0820	124.0630	0.141408696	0.760054892
3.75	19.0010	143.0640	0.116407011	0.876461903
4.00	12.0460	155.1100	0.073798161	0.950260064
>4.00	8.119	163.2290	0.049739936	1.000000000

TOTAL WT.	163.229	grams	
MEDIAN WT.	81.6145	grams	
MEAN GRAIN SIZE	3.0156	phi	0.1237 mm



GRAIN SIZE DISTRIBUTION CHART

GRAB SAMPLE # 27

PHI SIZE	SAMPLE WT.	CUM. WT.	WEIGHT %	CUM. WT. %
-2.00	2.6710	2.6710	0.013581195	0.013581195
-1.75	0.7560	3.4270	0.003844022	0.017425217
-1.50	0.6150	4.0420	0.003127082	0.020552299
-1.25	1.2250	5.2670	0.006228740	0.026781038
-1.00	1.4470	6.7140	0.007357540	0.034138578
-0.75	2.2390	8.9530	0.011384611	0.045523189
-0.50	3.1150	12.0680	0.015838795	0.061361984
-0.25	4.0500	16.1180	0.020592976	0.081954960
0.00	4.3310	20.4490	0.022021773	0.103976732
0.25	6.3090	26.7580	0.032079280	0.136056013
0.50	8.1460	34.9040	0.041419848	0.177475860
0.75	12.7330	47.6370	0.064743300	0.242219160
1.00	25.0040	72.6410	0.127137475	0.369356635
1.25	42.0500	114.6910	0.213811023	0.583167657
1.50	29.7180	144.4090	0.151106682	0.734274339
1.75	30.3940	174.8030	0.154543929	0.888818268
2.00	15.0190	189.8220	0.076366891	0.965185159
2.25	5.9300	195.7520	0.030152185	0.995337343
2.50	0.7620	196.5140	0.003874530	0.999211874
2.75	0.0840	196.5980	0.000427114	0.999638987
3.00	0.0230	196.6210	0.000116948	0.999755935
3.25	0.0140	196.6350	0.000071186	0.999827121
3.50	0.0120	196.6470	0.000061016	0.999888137
3.75	0.0100	196.6570	0.000050847	0.999938984
4.00	0.0020	196.6590	0.000010169	0.999949153
>4.00	0.0100	196.6690	0.000050847	1.000000000

TOTAL WT.	196.669	grams	
MEDIAN WT.	98.3345	grams	
MEAN GRAIN SIZE	1.1528	phi	0.4498 mm

