

**Tenneco Oil
Exploration & Production**
A Tenneco Company

Calais I Office Center
3201 "C" Street, Suite 406
Anchorage, Alaska 99503
(907) 561-5458

7.D.
FOLDER
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Anchorage, **TENNECO**

DEC 16 1986

REGIONAL SUPERVISOR
FIELD OPERATIONS
MINERALS MANAGEMENT SERVICE

December 16, 1986

RECEIVED
OCS DISTRICT OFFICE

DEC 16 1986

MINERALS MANAGEMENT SERVICE
ANCHORAGE, ALASKA

Mr. Brian Schoof
District Supervisor
Minerals Management Service
District Office
949 E. 36th Avenue, Suite 503
Anchorage, AK 99510

Re: OCS Y-0338 #1
API 55-231-00005
Block 284, Harrison Bay NR 5-4
Beaufort Sea, Alaska
Field Well Test Data (D.S.T. #3)

Dear Mr. Schoof:

Enclosed for your information and review are two copies of the field well test data for D.S.T. #3 for the subject well. D.S.T. #2 which was planned for the interval from 6580'-6700' was not performed due to the results from D.S.T. #1. The interpreted results from Test #3 will be submitted as soon as available.

If you require additional information, please contact me at 907/561-5458.

Sincerely yours,

Jason Kirksey
Jason Kirksey
Project Drilling Engineer

JK:mh
Enclosures

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AREA FILE ~~70~~
~~133A~~

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Anchorage, Alaska

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12-11-86
OCS Y-0338 #1
D.S.T. #3
SUMMARY

REGIONAL SUPERVISOR
FIELD OPERATION
MINERALS MANAGEMENT SERVICE

The second Drill Stem Test of the Phoenix Well was performed on December 11, 12 & 13, 1986. Shown below are the particulars of the testing operation. All formation fluids which were swabbed or reversed out from the hole were reinjected into the formation (150 bbls⁺). The zone was P & A'd as per OCS orders on December 14, 1986.

PERFORATION INTERVAL = 4650' - 4704' MD & TVD

UNDERBALANCE = 338 Psi

PERFORATING GUNS (TUBING CONVEYED) = 54', 12SPF, 120° Phasing

GUNS FIRED at 1133 Hrs. 12/11/86

INITIAL FLOW PERIOD = 4½ Min. RESERVOIR PRESSURE = 2053 Psi

INITIAL FLOW RATE = 212 BLPD

INITIAL SHUT-IN PERIOD = 1 Hour

FINAL FLOW PERIOD = From 1238 Hrs. 12/11/86 to 1330 Hrs 12/12/86

TOTAL SWABBING RUNS = 19

FLUID RECOVERY = 125 Bbls

FINAL FLUID ANALYSIS = 100% Oil 21.3° API

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MINERALS MANAGEMENT SERVICE
ANCHORAGE, ALASKA

12/12/86
KWR

PHOENIX NO. 1
SWABBING RECORD

Anchorage, Alaska

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TESTING INTERVAL - 4650' - 4704'
DATE: 11-12 DECEMBER 1986

DEC 16 1986

DEC 16 1986

REGIONAL SUPERVISOR
FIELD OPERATION
MINERALS MANAGEMENT SERVICE
ANCHORAGE, ALASKA

<u>TIME</u>	<u>RUN</u>	<u>SWAB DEPTH</u>	<u>FLUID LEVEL</u>	<u>RECOVERY</u>	<u>REMARKS</u>
<u>11 DEC. '86</u>					
1530 hrs.	#1	500'	0'	2.8 bbls	Cushion Water
1545 hrs	#2	700'	30'	5.4 bbls	Cushion Water
1620 hrs	#3	1100'	450'	5.7 bbls	5% Oil-17.2° API @ 60° F
1652 hrs	#4	1200'	480'	6.9 bbls	5-8% Oil-17.3° API @ 60° F
1723 hrs	#5	1500'	490'	7.5 bbls	10% Oil-Shut Down W.L. Well in Blowdown
1903 hrs	#6	1260'	120'	9.4 bbls	60% Oil-Trace Sand
2000 hrs	#7	1500'	370'	8.0 bbls	80% Oil-Trace Sand 14.1 API @ 60° F
2045 hrs	#8	1500'	490'	7.7 bbls	60% Oil-Trace Sand
2138 hrs	#9	1500'	200'	6.8 bbls	95% Oil-Trace Sand
2229 hrs	#10	1500'	300'	7.6 bbls	99% Oil-23° API-Trace Sand
2321 hrs.	#11	1500'	300'	5.9 bbls	99% Oil-21° API-Trace Sand
<u>12 DEC. '86</u>					
0131 hrs	#12	1400'	250'	6.1 bbls	99% Oil-22° API-Trace Sand
0215 hrs	#13	1200'	100'	4.9 bbls	99% Oil-22° API-Trace Sand
0238 hrs	#14	1500'	150'	4.9 bbls	99% Oil-22° API-Trace Sand
0656 hrs	#15	1100'	140'	4.8 bbls	100% Oil-21.7° API
0731 hrs	#16	1500'	150'	7.4 bbls	100% Oil-22.7° API
0813 hrs	#17	1500'	250'	11.9 bbls	100% Oil-21.5° API
0848 hrs	#18	1500'	300'	5.96 bbls	100% Oil-21.4° API
0922 hrs	#19	1500'	260'	5.53 bbls	100% Oil-21.3° API

TOTAL RECOVERY 124.96 bbls

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- NOTES:
1. Oil, gas, water swabbing to surge vessel. Gas recovered in small unmeasurable amounts was routed to flare and burned. Water and oil remained in vessel.
 2. On wireline swab run #6: Total recovered fluid is 37.7 bbl. Capacity of cushion and rathole is 38 bbl.
 3. 0330 hrs 12 Dec. 86, well was left in blowdown - full open choke to surge vessel.

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December 11, 1986

Mr. Brian Schoof
District Supervisor
Minerals Management Service
District Office
949 E. 36th Avenue, Suite 503
Anchorage, AK 99510

Re: OCS Y-0338 #1
API 55-231-00005
Block 284, Harrison Bay NR 5-4
Beaufort Sea, Alaska
Field Well Test Data (D.S.T. #1)

Dear Mr. Schoof:

Enclosed for your information and review are two copies of the field well test data for D.S.T. #1 for the subject well. The interpreted results will be submitted as soon as available.

If you require additional information, please contact me at 907/561-5458.

Sincerely yours,

Jason Kirksey
Jason Kirksey
Project Drilling Engineer

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MINERALS MANAGEMENT SERVICE
ANCHORAGE, ALASKA

AREA FILE

12-11-86
OCS Y-0338 #1
D.S.T. #1
SUMMARY

The initial Drill Stem Test of the Phoenix Well was performed on December 7, 8 and 9, 1986. Shown below are the flow rates and times of the various flow periods. All formation fluids which were swabbed or reversed out from the hole were reinjected into the formation (100 bbls±). The zone was P & A'd as per OCS orders on December 10, 1986.

PERFORATION INTERVAL = 7005' - 7060' MD & TVD

UNDERBALANCE = 1495 Psi

PERFORATING GUNS (TUBING CONVEYED) = 55', 12SPF, 120° Phasing

GUNS FIRED at 1850 Hrs. 12/7/86

INITIAL FLOW PERIOD = 8 Min. RESERVOIR PRESSURE = 3042 Psi

INITIAL FLOW RATE = 145 BLPD

INITIAL SHUT-IN PERIOD = 1 Hour 7 Minutes

FINAL FLOW PERIOD = From 2005 Hrs. 12/7/86 to 0638 12/9/86

TOTAL SWABBING RUNS = 17

FLUID RECOVERY = 57 Bbls

FINAL FLUID ANALYSIS = 99% Water 1% Oil and Solids

CL = 12000 Ppm PH = 6.2 WT = 8.4 OIL = 15.4 API

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MINERALS MANAGEMENT SERVICE
ANCHORAGE, ALASKA

AREA FILE 7D
338 #1

12/11/86
OCS Y-0338 #1
SWABBING RECORD
D.S.T. #1
TEST INTERVAL: 7005'-7060'

TIME	RUN	SWAB DEPTH (FT)	FLUID LEVEL (FT)	RECOVERY (BBLs) RUN TOTAL	CHLORIDES (PPM)	NITRATES
12/8/86						
03:25	1	1400	1100			
03:37	2	1750	1240			
05:05	3	1400	980			
05:30	4	1800	1300	8.80		
06:00	5	1800	1460	.99	9.79	
06:40	6	1550	1150	.15	9.94	
07:15	7	1640	1140	1.80	11.74	
08:00	8	1700	1180	1.43	13.17	
08:30	9	ABORTED	RUN			
13:30	10	1250	750	2.75	15.92	
13:57	11	1700	1100	5.44	21.36	400 YES
16:00	12	2080	1450	5.11	26.47	400 YES
17:15	13	2100	1690	7.33	33.80	27000 NO
20:40	14	2400	1800	5.66	39.46	29000 NO
22:15	15	2800	2195	5.66	45.12	18000 NO
23:35	16	3100	2450	5.90	51.02	13000 NO
12/9/86						
00:30	17	3400	2800	5.80	56.82	13000 NO

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ANCHORAGE, ALASKA

12-9-86
OCS Y-0338 #1
D.S.T. #1
PRODUCED FLUIDS

The Phoenix #1 Drill Stem Test was concluded at 0630 a.m. 12/9/86. The D.B.S. was sheared, and the SSARV opened with 3000 psi, and the drill string was reversed out. A total of 35 bbls of produced fluids (99% water) were reversed. Six 1-quart samples were taken; 2 at the beginning, 2 in the middle, and 2 at the end of the reversing period. After the tools were pulled out of the hole 2 more samples were obtained. Also, one sample from a drill collar above the dual ball sampler, and a two quart sample from the dual ball sampler were taken. The average results of these samples are listed below:

SAMPLE NUMBER	TIME	SAMPLE POINT	SAMPLE VOLUME	CHLORIDES	PH	OIL CONTENT	RESISTIVITY
1	0722	Separator	1 Qt.	13000 ppm	6.1	TR	.42 @ 64°F
2	0728	Separator	1 Qt.	12500 ppm	6.1	TR	.44 @ 64°F
3	0733	Separator	1 Qt.	12000 ppm	6.1	TR	.43 @ 64°F
4	1530	Drill Collar	1 Qt.	33500 ppm	6.1	TR	WT = 8.7
5	1545	D.B.S.	1 Qt.	12000 ppm	6.2	*	P = 880 psi

* 99% Water 1% Oil and Solids; Oil = 15.4 API.
The sampler was at a pressure of 880 psi at the surface.

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