

## WELL LOGGING REPORT

COMPANY AMOCO PROD. CO.WELL OLC-Y-302 NO.1 MARSLOCATION West Harrison Bay, AKDate 4-9-86 Time 00:01 Depth 7975 Present Operation Rig up DresseFeet made N/A Hrs drlg N/A Avg drlg rate N/ADepth last sample 7975 ~~SA~~ QTZT-100% Sh            Other           Hotwire: Min.            Depth            Max.            Depth            Avg.           H<sub>2</sub>S: Min.            Depth            Max.            Depth            Avg.           CO<sub>2</sub>: Min.            Depth            Max.            Depth            Avg.           Conn. gas: Min.            Depth            Max.            Depth           Trip gas 2415 Depth 7975 Log time for trip gas 84 mins

Chromatograph: Minimum Maximum Average Depth (max. gas)

C<sub>1</sub> RECEIVED  
OGS DISTRICT OFFICEC<sub>2</sub>           C<sub>3</sub> APR 15 1986C<sub>4</sub> MINERALS MANAGEMENT SERVICEC<sub>5</sub> ANCHORAGE, ALASKAMud properties: Wt 10+ Vis 38 WI 7.5 Ph 12.3 Cl 800Sol 10% Oil            Wtr            Other           Carbide check: Depth            Gas            Amount carbide used           Bottom up: Pump strokes            at            strokes per minute, Time           Lithology and remarks: Pumping @ 168 SPMTrip Gas - 2415 units @ 14400 strokes2520 units @ 15000 strokesSteady increase after 10750 strokesSteady decrease after 15800 strokes to 1525 unitsslowly decrease after 17000 strokes

## WELL LOGGING REPORT

COMPANY AMOCO PROD. CO.WELL OLS-V-302-10.1 MARSLOCATION BLK 140 TRK 13B West Harrison Bay, AKDate 4-8-86 Time 00:01 Depth 7975 Present Operation Short TripFeet made 213 Hrs drilg 20.5 Avg drilg rate 13 ft/hrDepth last sample 7975 QTZT - 80% Sh            Other Arg - 20%Hotwire: Min. 13 Depth 7960 Max. 210 Depth 7805 Avg. 50H<sub>2</sub>S: Min. N/A Depth            Max.            Depth            Avg.           CO<sub>2</sub>: Min. 0 Depth            Max. 0 Depth            Avg.           Conn. gas: Min. 98 Depth 7910 Max. 220 Depth 7884Trip gas 540 Depth 7647 Log time for trip gas 94 mins

Chromatograph: Minimum Maximum Average Depth (max. gas)

C<sub>1</sub> 800 12900 3400 7805C<sub>2</sub> 40 600 200           C<sub>3</sub>            200 100           C<sub>4</sub>            100 Tr           C<sub>5</sub>            Tr                      Mud properties: Wt 9.9 Vis 37 Wl 8.4 Ph 12.3 Cl 750Sol 99% Oil            Wtr            Other           Carbide check: Depth 7323 Gas 37 units Amount carbide used 802Bottom up: Pump strokes 13461 at 152 strokes per minute, Time 89 minsLithology and remarks:           7750 - 7780 10-30% DOL 10-80% LS 10-20% SH TRSS7790 - 7860 60-100% LS 10-30% SH7870 - 7920 10-80% QTZT 20% SH 10-30% LS7920 - 7975 80-100% QTZT 20% Argil.RECEIVED  
OCS DISTRICT OFFICE

APR 09 1986

MINERALS MANAGEMENT SERVICE  
ANCHORAGE, ALASKACalled in by            Talked with

# WELL LOGGING REPORT

COMPANY AMOCO PROD. CO.

WELL OLS-Y-302 NO.1 MARS

LOCATION Blk 140 TRK 138 West Harrison Bay, AK

Date 4-7-86 Time 00:01 Depth 7762 Present Operation Drilling

Feet made 200' Hrs drlg 17 hrs Avg drlg rate 10 ft/hr

Depth last sample 7740 Sd 50% ~~50%~~ DOL 20% Other LS-30%

Hotwire: Min. 15 Depth 7650 Max. 250 Depth 7670 Avg. 65

H<sub>2</sub>S: Min. N/A Depth        Max.        Depth        Avg.       

CO<sub>2</sub>: Min. 0 Depth        Max. 0 Depth        Avg.       

Conn. gas: Min. 105 Depth 7603 Max. 165 Depth 7730

Trip gas 540 Depth 7647 Lag time for trip gas 94 mins

Chromatograph: Minimum Maximum Average Depth (max. gas)

C<sub>1</sub> 1200 17500 3500 7670

C<sub>2</sub> 70 7700 200       

C<sub>3</sub> tr 3200 100       

C<sub>4</sub>                            

C<sub>5</sub>                            

Mud properties: Wt 10.1 Vls 40 Wl 8.2 Ph 12.3 Cl 900

Sol 11% Oil        Wtr        Other       

Carbide check: Depth 7323 Gas 37 units Amount carbide used 8oz

Bottom up: Pump strokes 13461 at 152 strokes per minute, Time 89 mins

Lithology and remarks:       

HV6 Drill Rate/INT - 15 ft/hr - 7540 - 7580 - 100% SS

10 ft/hr - 7590 - 7640 - 80-90% SS 10-20% SH

10 ft/hr 7640 - 7680 - 30-40% SS, 20-50% SLTST, 20-40% SH

40 ft/hr 7690 - 7700 - 100% SS

14 ft/hr 7700 - 7740 40-50% SS, 20-30% DOL, 20-30% LS

**RECEIVED**  
**OCS DISTRICT OFFICE**

NOTE - LS, DOL @ 7710 sample

APR 09 1986

MINERALS MANAGEMENT SERVICE  
ANCHORAGE, ALASKA

Called in by        Talked with        Phone

## WELL LOGGING REPORT

RECEIVED  
OCS DISTRICT OFFICE

APR 09 1986

COMPANY AMOCO PROD. CO.MINERALS MANAGEMENT SERVICE  
ANCHORAGE, ALASKAWELL OCS-Y-302 NO. 1 MARSLOCATION Blk 140 TRK 138 West Harrison Bay, AKDate 4-6-86 Time 00:01 Depth 7562 Present Operation DrillingFeet made 262 Hrs drlg 14 hrs Avg drlg rate 30 ft/hrDepth last sample 7540 Sd 90% Sh            Other 10% TuffHotwire: Min. 14 Depth 7330 Max. 3320 Depth 7355 Avg. 50H<sub>2</sub>S: Min. N/A Depth            Max.            Depth            Avg.           CO<sub>2</sub>: Min. 0 Depth 7420- Max. 0.5% Depth 7405 Avg. 0Conn. gas: Min. 25 Depth 7325 Max. 4040 Depth 7355Trip gas 980 Depth 7397 Lag time for trip gas 89 mins @ 152 SPM.

Chromatograph: Minimum Maximum Average Depth (max. gas)

C<sub>1</sub> 890 187000 4100 7355C<sub>2</sub> 50 8500 210           C<sub>3</sub>            3300 110           C<sub>4</sub>            900                      C<sub>5</sub>            n                      Mud properties: Wt 10.1 Vis 50 WI 7.5 Ph 12.3 Cl 1000Sol 12% Oil Tr Wtr            Other           Carbida check: Depth 7323 Gas 37 units Amount carbide used 802Bottom up: Pump strokes 13461 at 152 strokes per minute, Time 89 minsLithology and remarks:           7280 - 7360 - 60-90% SH 10-40% SLTST7370 - 7520 80-100% SS Tr SH, Tr SLTST7530 - 7540 90% SS 10% Tuff7400 - 7435 - SS - cl, wh, tn, vf-mgr, sb rnd, long l ip, p. srt, pyr, sl cake, gtz, cht, lith frags, dul yel flor, sl strong yel ct7370 - 74007440 - 7510SS - cl, wh, H brn, vf gr, sb rnd-rnd, w srt, gtz, cht, unconcTuff - wh, lrm, ltsg, sst - orange-whi min florCalled in by            Talked with            Phone

## WELL LOGGING REPORT

COMPANY AMOCO PROD. CO.WELL OLS-Y-302 NO. 1 MARSLOCATION BIK 140 TRK 138 West Harrison Bay, AKDate 4-5-86 Time 00:01 Depth 7300 Present Operation DrillingFeet made 221' Hrs drlg 16 Avg drlg rate 17 ft/hrDepth last sample 7260 ~~8~~ SLTST 40% Sh 60% Other \_\_\_\_\_Hotwire: Min. 12 Depth 7185 Max. 170 Depth 7265 Avg. 25H<sub>2</sub>S: Min. N/A Depth \_\_\_\_\_ Max. \_\_\_\_\_ Depth \_\_\_\_\_ Avg. \_\_\_\_\_CO<sub>2</sub>: Min. 0 Depth 7080-7255 Max. 0.1% Depth 7260 Avg. 0Conn gas: Min. 35 Depth 7259 Max. 37 Depth 7229Trip gas 805 Depth 7178 Log time for trip gas 85 mins @ 152 SPM

Chromatograph: Minimum Maximum Average Depth (max. gas)

C<sub>1</sub> 900 12000 1900 7265C<sub>2</sub> 40 500 120 \_\_\_\_\_C<sub>3</sub> \_\_\_\_\_ 200 Tr \_\_\_\_\_C<sub>4</sub> \_\_\_\_\_ 40 \_\_\_\_\_C<sub>5</sub> \_\_\_\_\_ \_\_\_\_\_RECEIVED  
OCS DISTRICT OFFICE

APR 09 1986

MINERALS MANAGEMENT SERVICE  
ANCHORAGE, ALASKAMud properties: Wt 10 Vis 42 WI 9.2 Ph 12 CI 1400Sol 970 Oil \_\_\_\_\_ Wtr \_\_\_\_\_ Other \_\_\_\_\_Carbide check: Depth 6570 Gas 80 units Amount carbide used 802Bottom up: Pump strokes 12133 at 180 strokes per minute, Time 67 mins

Lithology and remarks: \_\_\_\_\_

7050 - 7140 10% CLY, 50% SH, 40% SLTST7140 - 7200 10-30% CLY, 30-60% SH, 30-40% SLTST7200 - 7260 50-60% SH 40-50% SLTSTSH - m-dk ss, pty, pap, mica, carb, sily, tr free  
w med m-crss gr gtz, hdSLTST - m ss, arg, carb, mica, frmTr Tuff - lt ss, wh, crm, wxy, sft - yel wh min flcr, No Cut

NOTE - CATCHING 10' SAMPLES @ 7200

Called in by \_\_\_\_\_ Talked with \_\_\_\_\_ Phone \_\_\_\_\_

## WELL LOGGING REPORT

COMPANY AMOCO PROD. CO.WELL DCS-Y-302 NO. 1 MARSLOCATION Blk 140 TRK 13B West Harrison Bay, AKDate 4-4-86 Time 00:01 Depth 7079 Present Operation DrillingFeet made 169' Hrs drlg 11.5 hrs Avg drlg rate 23 ft/hrDepth last sample 7050 ~~CLY-20%~~ CLY-20% Sh 40% Other SLTST-40%Hotwire: Min. 18 Depth 6935 Max. 25 Depth 6980 Avg. 20H<sub>2</sub>S: Min. N/A Depth        Max.        Depth        Avg.       CO<sub>2</sub>: Min. 0 Depth        Max. 0 Depth        Avg.       Conn. gas: Min. N/A Depth        Max.        Depth       Trip gas 345 Depth 7057 Lag time for trip gas 102 mins @ 125 SPM.

Chromatograph: Minimum Maximum Average Depth (max. gas)

C<sub>1</sub> 1700 2200 1900 6980C<sub>2</sub> 100 130 120       C<sub>3</sub> Tr Tr Tr       C<sub>4</sub>                            C<sub>5</sub>                            Mud properties: Wt 9.7 Vis 48 Wl 8.5 Ph 12.5 Cl 1600Sol 9% Oil        Wtr        Other       Carbide check: Depth 6570 Gas 80 units Amount carbide used 802Bottom up: Pump strokes 12133 at 180 strokes per minute, Time 67 minsLithology and remarks:       6870-7020 20% CLY 30% SH 50% SLTSTSH- m-dk gg, fiss, papry i.p., slty, sft-fmCLYST- lt gg, slty, arg, carb, sftSLTST- lt-m gg, arg, spec, mica, sl calc, pgr, m fmTr Tuff, lt gg, crm, carb fiks, m fmTr SS- lt gg, srp, vf gg, sb ang, m-w srt, sl calc, slty, sft,v. fri, No show or cut- Tested BOP's -

RECEIVED

DCS DISTRICT OFFICE

APR 7 1986

Called in by        Talked with        Phone       MINERALS MANAGEMENT SERVICE  
ANCHORAGE, ALASKA

04/03/1986

04:10

AMOCO MARS Ice Island, HK

510 500 1002 1.02

## WELL LOGGING REPORT

COMPANY AMOCO PROD. CO.WELL OCS-Y-302 NO. 1 MARSLOCATION BLK 140 TRK 138 West Harrison Bay, AKDate 4-3-86 Time 00:01 Depth 6910 Present Operation DrillingFeet made 474' Hrs drlg 24 hrs Avg drlg rate 25 ft/hrDepth last sample 6870 ~~SLTST~~ SLTST-40% Sh 40% Other CLY-20%Hotwire: Min. 20 Depth 6710 Max. 38 Depth 6790 Avg. 25H<sub>2</sub>S: Min. N/A Depth        Max.        Depth        Avg.       CO<sub>2</sub>: Min. 0 Depth        Max. 0 Depth        Avg.       Conn. gas: Min. N/A Depth        Max. N/A Depth       Trip gas 720 Depth 6383 Log time for trip gas 64 mins

Chromatograph: Minimum Maximum Average Depth (max. gas)

C<sub>1</sub> 1200 2900 2300 6790C<sub>2</sub> 70 160 95 RECEIVEDC<sub>3</sub> 10 50 15 OCS DISTRICT OFFICEC<sub>4</sub> Tr 20        APR 7 1986C<sub>5</sub>                      MINERALS MANAGEMENT SERVICEANCHORAGE, ALASKAMud properties: Wt 9.7 Vis 42 WI 8.2 Ph 11.6 CI 1600Sol 8% Oil        Wtr        Other       Carbide check: Depth 6570 Gas 80 units Amount carbide used 802Bottom up: Pump strokes 12133 at 180 strokes per minute, Time 67 minsLithology and remarks:       6390 - 6570 50-70% CLY 20-40% SH 10-20% SLTST6570 - 6780 30-40% CLY 30-40% SH 30-40% SLTST6780 - 6870 20% CLY 40-50% SH 30-40% SLTST6870 - Tr. ss - cl, ssp, vfg, rnd, pyr, slty, carb, qtz, fri, NSOFLCLYST - Itty, slty, arg, carb, sftSH - m-clkgy, sh fiss - fiss, slty, mica, carb lam, frmSLTST - lt-may, arg, spec, mica, pyr, carb, tuft i.p., sft - frm6630 - Tr RND QTZ GrCalled in by        Talked with        Phone

## WELL LOGGING REPORT

COMPANY AMOCO PROD. CO.WELL OCS-Y-302 NO. 1 MARSLOCATION Bik 140 TRK 138 West Harrison Bay, AKDate 4-2-86 Time 00:01 Depth 6436 Present Operation DrillingFeet made 396 Hrs drlg 18.5 hrs Avg drlg rate 25 ft/hrDepth last sample 6390 ~~SILT~~ SILT- 40% Sh 40% Other CLY- 20%Hotwire: Min. 25 Depth 6225 Max. 600 Depth 6095 Avg. 40H<sub>2</sub>S: Min. N/A Depth          Max.          Depth          Avg.         CO<sub>2</sub>: Min. 0 Depth          Max. 0 Depth          Avg.         Conn gas: Min. 50 Depth 6257 Max. 115 Depth 6155Trip gas 720 Depth 6383 Log time for trip gas 64 mins

Chromatograph: Minimum Maximum Average Depth (max. gas)

C<sub>1</sub> 1700 51800 3800 6095C<sub>2</sub> 90 2200 200         C<sub>3</sub> 30 600 70         C<sub>4</sub>          100 Tr         C<sub>5</sub>          100                  Mud properties: Wt 9.8+ Vis 41 WI 8.7 Ph 12 CI 2700Sol 10% Oil          Wtr          Other         Carbide check: Depth 5974 Gas 75 units Amount carbide used 502Bottom up: Pump strokes 10360 at 180 strokes per minute, Time 63 mins

Lithology and remarks:

Received 6040 - 6270 - 70% CLY 20% SH 10% SLTST  
OCS District Office6270 - 6390 - 40% CLY 40% SH 20% SLTSTAPR 3 1986 CLY - gy brn, silty, stky, carb, sftSLTST - m-gy brn, arg, aren, sl calc, carb, mica, sftMinerals Management Service SH - dk gy, fiss, splntry, pyr, mica, carb lam, frm  
Anchorage, AlaskaTr ss - lt gy brn, ssp, vfg, sb ang, w srt, silty, sl calc, carb, Fri. No.Sign. GAS INC. - 6045-6075 BKG 40 INC to 360 Return to 506090-6100 BKG 50 INC to 600 Return to 60Called in by          Talked with          Phone



# WELL LOGGING REPORT

COMPANY AMOCO - PROD. CO.

WELL OCS-Y-302 NO.1 MARS

LOCATION Blk 140 TRK 138 West Harrison Bay, AK

Date 4-1-86 Time 00:01 Depth 6040 Present Operation Drilling

Feet made 405' Hrs drlg 15 hrs Avg drlg rate 30 ft/hr

Depth last sample 6000 ~~SLTST~~ SLTST-20% Sh 20% Other CLY-60%

Hotwire: Min. 20 Depth 5930 Max. 130 Depth 5635 Avg. 40

H<sub>2</sub>S: Min. N/A Depth \_\_\_\_\_ Max. \_\_\_\_\_ Depth \_\_\_\_\_ Avg. \_\_\_\_\_

CO<sub>2</sub>: Min. 0 Depth \_\_\_\_\_ Max. 0 Depth \_\_\_\_\_ Avg. \_\_\_\_\_

Conn. gas: Min. 55 Depth 5852 Max. 150 Depth 5630

Trip gas 295 units Depth 5740 Log time for trip gas 48 mins

Chromatograph: Minimum Maximum Average Depth (max. gas)

C<sub>1</sub> 1200 1700 2700 5635

C<sub>2</sub> 60 500 140 \_\_\_\_\_

C<sub>3</sub> 25 250 50 \_\_\_\_\_

C<sub>4</sub> tr tr tr \_\_\_\_\_

C<sub>5</sub> \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

Received  
District Office

APR 3 1986

Minerals Management Service  
Anchorage, Alaska

Mud properties: Wt 9.8 Vis 47 Wl 9.0 Ph 12 Cl 2000

Sol 9% Oil \_\_\_\_\_ Wtr \_\_\_\_\_ Other \_\_\_\_\_

Carbide check: Depth 5974 Gas 75 units Amount carbide used 502

Bottom up: Pump strokes 10360 at 180 strokes per minute, Time 63 mins

Lithology and remarks:

5635 - 5850 - 60% CLY - 30-40% SLTST

5850 - 6000 - 60% CLY 20% SLTST 20% SH

CLY - lt-mgy, gy brn, slty, stky, arg, carb, sft

SLTST - dk gy, aren, arg, carb, mica, frm

SH - dk gy brn, sb fiss, slty, carb lam, mica, pyg, frm

Called in by \_\_\_\_\_ Talked with \_\_\_\_\_ Phone \_\_\_\_\_

03/31/1986 00:35 AMOCO MARS Ice Island, Ak.

918 588 1652 P.01

## WELL LOGGING REPORT

COMPANY AMOCO PROD. CO.RECEIVED  
OCS DISTRICT OFFICEWELL OLS-Y-302 NO. 1 MARSLOCATION BK 140 TRK 138 West Harrison Bay, AK APR 1 1986Date 3-31-86 Time 00:00 Depth 5635 MINERALS MANAGEMENT SERVICE  
Present Operation DrillingFeet made 620 Hrs drlg 16.5 Avg drlg rate 45 ft/hrDepth last sample 5580 Sd SLTST-40% Other CLY-6%Hotwire: Min. 55 Depth 5055 Max. 410 Depth 5425 Avg. 1H<sub>2</sub>S: Min. N/A Depth        Max.        Depth        Avg.       CO<sub>2</sub>: Min. 0 Depth        Max. 0 Depth        Avg. 0Conn. gas: Min. 85 Depth 5132 Max. 1470 Depth 5412Trip gas 970 units Depth 5486 Lag time for trip gas 46 mins

Chromatograph: Minimum Maximum Average Depth (max. gas)

C<sub>1</sub> 5500 35100 8500 5420C<sub>2</sub> 180 2100 500       C<sub>3</sub> 80 1200 240       C<sub>4</sub> Tr 630 Tr       C<sub>5</sub>                            Mud properties: Wt 9.8 Vis 42 Wl 10.5 Ph 12 Cl 2200Sol 10% Oil 0 Wtr        Other       Carbide check: Depth 5319 Gas 140 units Amount carbide used 8 ozBottom up: Pump strokes 8907 at 180 strokes per minute, Time 49 m.Lithology and remarks: CLY- lt. med, gy brn, silty, stky, bent-tn-ff, sft4900-5280- 60-80% CLY 20-40% SLTST5280-5490- 90-100% CLY 0-10% SLTST5490-5580- 60-80% CLY 20-40% SLTSTSLTST- lt gy, gy brn, arg, aren, mica, carb, sft\* Sign. Gas Inc- 5420- BK6 200 INC to 410 Back to 16Called in by        Talked with        Phone

COMPANY AMOCO PROD. CO.

WELL OLC-Y-302 NO. 1 MARS

LOCATION BLK 140 TRK 138 West Harrison Bay, AK

Date 3-30-86 Time 00:01 Depth 5015 Present Operation Drilling

Feet made 440 Hrs drlg 11.5 hrs Avg drlg rate 60 ft/hr

Depth last sample 4950 Sd SLT- 20% Other CLY- 80%

Hotwire: Min. 45 Depth 4780 Max. 120 Depth 4670 Avg. 65

H<sub>2</sub>S: Min. N/A Depth        Max.        Depth        Avg.       

CO<sub>2</sub>: Min. 0 Depth        Max. 0 Depth        Avg.       

Conn. gas: Min. N/A Depth        Max. N/A Depth       

Trip gas 1480 units Depth 4667 Log time for trip gas 51 mins

Chromatograph: Minimum Maximum Average Depth (max. gas)

C<sub>1</sub> 3400 10200 6500 4670

C<sub>2</sub>        125 88       

C<sub>3</sub>        57 15       

C<sub>4</sub>                            

C<sub>5</sub>                            

Mud properties: Wt 9.8+ Vis 41 WI 11.8 Ph 12.5 CI 2500

Sol 10% Oil N/A 0% Wtr        Other       

Carbide check: Depth 4375 Gas 310 units Amount carbide used 502

Bottom up: Pump strokes 7570 at 165 strokes per minute, Time 46 mins

Lithology and remarks:       

4600 - 4700 - 100% CLY

4700 - 4900 - 70-80% CLY 20-30% SLTST "

CLY - 1/2 to 3/4 brn, silty, stky, carb, sft

SLTST - 1/2 to 3/4 brn, arg, aren, mica, carb lam, pyr, tuft, frm

Called in by        Talked with        Phone

# WELL LOGGING REPORT

COMPANY AMOCO PROD. CO.

WELL OLS-Y-302 NO. 1 MARS

LOCATION BLK 140 TRK 138 West Harrison Bay, AR

Date 3-29-86 Time 00:01 Depth 4575 Present Operation Drilling

Feet made 1040 Hrs drlg 21.5 hrs Avg drlg rate 90 ft/hr

Depth last sample 4500 Sd \_\_\_\_\_ Sh \_\_\_\_\_ Other CLY-100%

Hotwire: Min. 40 Depth 3640 Max. 1310 Depth 3940 Avg. 230

H<sub>2</sub>S: Min. N/A Depth \_\_\_\_\_ Max. \_\_\_\_\_ Depth \_\_\_\_\_ Avg. \_\_\_\_\_

CO<sub>2</sub>: Min. 0 Depth \_\_\_\_\_ Max. 0 Depth \_\_\_\_\_ Avg. 0

Conn. gas: Min. 170 Depth 3685 Max. 1400 Depth 3933

Trip gas 275 units Depth 3430 Lag time for trip gas 31 mins

Chromatograph: Minimum Maximum Average Depth (max. gas)

C<sub>1</sub> 3000 120700 ppm 18700 ppm 3940

C<sub>2</sub> \_\_\_\_\_ 475 85 ppm \_\_\_\_\_

C<sub>3</sub> \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

C<sub>4</sub> \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

C<sub>5</sub> \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

Mud properties: Wt 9.8 Vls 43 Wl 12.4 Ph 12.5 Cl 2900

Sol 9 1/2% Oil N/A Wtr \_\_\_\_\_ Other \_\_\_\_\_

Carbide check: Depth 4375 Gas 310 units Amount carbide used 502

Bottom up: Pump strokes 7570 at 165 strokes per minute, Time 46 mins

Lithology and remarks: \_\_\_\_\_

3535-3750 - 70-100% SLTST - lt-may, grds to VF ss, carb, sft

0 - 30% CLY - lt ss, slty, carb, py, sft

3750-4070 - 100% CLY - lt ss, slty, carb, slty, arg, sft

4070-4350 - 80-90% CLY 10-20% SLTST TR ss, TR COAL

4350 - 100% CLY

Significant GAS INC - 3920-3945 BK6 230 INC To 1310 BACK To 21

4175-4210 BK6 110 - INC to 910 BACK To 95

\* NOTE - INC Mud Wt to 9.6 at 3960

Called in by \_\_\_\_\_ Talked with \_\_\_\_\_ Phone \_\_\_\_\_

03/28/1986

05:06

MOCO MARS Ice Island, AK

918 588 1652

P.02

## WELL LOGGING REPORT

COMPANY AMOCO PROD. CO.WELL OLS-Y-302 NO. 1 MARSLOCATION BLK 140 TRK 138 West HARRISON BAY, AKDate 3-28-86 Time 00:01 Depth 3535 Present Operation DrillingFeet made 213 Hrs drlg 5.3 hrs Avg drlg rate 120Depth last sample 3450 Sd \_\_\_\_\_ Sh \_\_\_\_\_ Other SLTST - 100'Hotwire: Min. 10 Depth 3335 Max. 245 Depth 3460 Avg. 90H<sub>2</sub>S: Min. N/A Depth \_\_\_\_\_ Max. \_\_\_\_\_ Depth \_\_\_\_\_ Avg. \_\_\_\_\_CO<sub>2</sub>: Min. 0 Depth \_\_\_\_\_ Max. 0 Depth \_\_\_\_\_ Avg. 0Conn. gas: Min. 60 units Depth 3340 Max. 110 Depth 3399Trip gas 275 units Depth 3430 Lag time for trip gas 31 mins

Chromatograph: Minimum Maximum Average Depth (max. gas)

C<sub>1</sub> 1015 ppm 23100 ppm 7500 3460C<sub>2</sub> \_\_\_\_\_ 35 ppm Tr \_\_\_\_\_C<sub>3</sub> \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_C<sub>4</sub> \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_C<sub>5</sub> \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_Mud properties: Wt 9.17 Vls 50 WI 13.3 PH 12.5 CI 3000Sol 6% Oil \_\_\_\_\_ Wtr \_\_\_\_\_ Other \_\_\_\_\_Carbide check: Depth 3322 Gas 130 units Amount carbide used 402

Bottom up: Pump strokes \_\_\_\_\_ at \_\_\_\_\_ strokes per minute, Time \_\_\_\_\_

Lithology and remarks: \_\_\_\_\_

Predo SLTST - 11 gy to gy, sdy, cly, unconsl silt ip,  
grelg to VF ss, sft

Called in by \_\_\_\_\_ Talked with \_\_\_\_\_ Phone \_\_\_\_\_

## WELL LOGGING REPORT

COMPANY AMOCO PROD. CO.WELL OLS-Y-302 - NO. 1 MARSLOCATION Blk 140 Trk 138 West HARRISON BAY, AKDate 3-27-86 Time 00:01 Depth 3322 Present Operation Test BOP'sFeet made 0 Hrs drlg N/A Avg drlg rate N/ADepth last sample 3300 Sd 10% Sh  Other 90% SLTSTHotwire: Min. N/A Depth  Max.  Depth  Avg. H<sub>2</sub>S: Min. N/A Depth  Max.  Depth  Avg. CO<sub>2</sub>: Min. N/A Depth  Max.  Depth  Avg. Conn. gas: Min. N/A Depth  Max.  Depth Trip gas N/A Depth  Log time for trip gas 

Chromatograph: Minimum Maximum Average Depth (max. gas)

C<sub>1</sub> N/A   C<sub>2</sub>    C<sub>3</sub>    C<sub>4</sub>    C<sub>5</sub>    Mud properties: Wt  Vis  WI  Ph  Cl Sol  Oil  Wtr  Other Carbide check: Depth 3322 Gas 130 units Amount carbide used 402Bottom up: Pump strokes 13547 at 206 strokes per minute, Time 66 minLithology and remarks: Called in by  Talked with  Phone

03/26/1986

04:51

AMOCO MARS Ice Island, AK

918 588 1652 P.01

## WELL LOGGING REPORT

COMPANY Amoco Prod. Co.WELL OCS-Y-302 #1 MarsLOCATION Blk. 140 Trk 138Date 3-26-86 Time 24:00 Depth 3322 Present Operation Nipple Up; W.O.Feet made 0 Hrs drlg N/A Avg drlg rate N/ADepth last sample 3300 Sd 10% Sh            Other 90% SLSTHotwire: Min. N/A Depth            Max.            Depth            Avg.           H<sub>2</sub>S: Min. N/A Depth            Max.            Depth            Avg.           CO<sub>2</sub>: Min. N/A Depth            Max.            Depth            Avg.           Conn. gas: Min. N/A Depth            Max.            Depth           Trip gas N/A Depth            Lag time for trip gas           

Chromatograph: Minimum Maximum Average Depth (max. gas)

C<sub>1</sub>                                            C<sub>2</sub>                                            C<sub>3</sub>                                            C<sub>4</sub>                                            C<sub>5</sub>                                            Mud properties: Wt            Vls            Wl            Ph            Cl           Sol            Oil            Wtr            Other           Carbide check: Depth 3322 Gas 130.11 Amount carbide used 4.02Bottom up: Pump strokes 13547 at 206 strokes per minute, Time 66 min.Lithology and Remarks:           Received  
OCS District Office

MAR 27 1986

Minerals Management Service  
Anchorage, Alaska

# WELL LOGGING REPORT

COMPANY Amoco Prod. Co.  
 WELL OCS-Y-302 \*1 Mars  
 LOCATION BLK 140 Trk 138  
 Date 3-25-86 Time 24:00 Depth 3322 Present Operation Run Casing  
 Feet made 0 Hrs drlg N/A Avg drlg rate N/A  
 Depth last sample 3300 Sd 10% Sh            Other 90% SLST  
 Hotwire: Min. N/A Depth            Max.            Depth            Avg.             
 H<sub>2</sub>S: Min. N/A Depth            Max.            Depth            Avg.             
 CO<sub>2</sub>: Min. N/A Depth            Max.            Depth            Avg.             
 Conn. gas: Min. N/A Depth            Max.            Depth             
 Trip gas H<sub>2</sub>O Depth 3322 Lag time for trip gas 5.5 min  
 Chromatograph:    Minimum    Maximum    Average    Depth (max. gas)  
                   C<sub>1</sub>                                              
                   C<sub>2</sub>                                              
                   C<sub>3</sub>                                              
                   C<sub>4</sub>                                              
                   C<sub>5</sub>                                              
 Mud properties: Wt            Vis            WI            Ph            Cl             
                   Sol            Oil            Wtr            Other             
 Carbide check: Depth 3322 Gas 130 u Amount carbide used 4.02  
 Bottom up: Pump strokes 13547 at 206 strokes per minute, Time 66 min  
 Lithology and remarks: Run E logs, Trip in for Wiper Run, Trip Out to run casing

Received  
 OCS District Office

MAR 27 1986

Minerals Management Service  
 Anchorage, Alaska

Called in by            Talked with            Phone



# WELL LOGGING REPORT

COMPANY Amoco Prod. Co.

WELL OCS-Y-302 #1 Mars

LOCATION Blk 140, T. 138

Date 3-24-86 Time 24:00 Depth 3322 Present Operation Trip turn E log

Feet made 0 Hrs drlg N/A Avg drlg rate N/A

Depth last sample 3300 Sd 10% Sh 90% Other SLST

Hotwire: Min. N/A Depth        Max.        Depth        Avg.       

H<sub>2</sub>S: Min. N/A Depth        Max.        Depth        Avg.       

CO<sub>2</sub>: Min. N/A Depth        Max.        Depth        Avg.       

Conn. gas: Min. N/A Depth        Max.        Depth       

Trip gas N/A Depth        Lag time for trip gas       

Chromatograph	Minimum	Maximum	Average	Depth (max. gas)
C <sub>1</sub>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>
C <sub>2</sub>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>
C <sub>3</sub>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>
C <sub>4</sub>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>
C <sub>5</sub>	<u>      </u>	<u>      </u>	<u>      </u>	<u>      </u>

Mud properties: Wt        Vls        WI        Ph        CI       

Sol        Oil        Wtr        Other       

Carbide check: Depth 3322 Gas 130 u Amount carbide used 4.02

Bottom up: Pump strokes 13547 at 206 strokes per minute, Time 66 min

Lithology and remarks:       

Hole opened 17 1/2" to depth of 3322'; Gas running 10 units  
to 340 units; Avg. Gas = 130 units

RECEIVED  
OCS DISTRICT OFFICE

MAR 25 1986

MINERALS MANAGEMENT SERVICE  
ANCHORAGE, ALASKA

Called in by        Talked with        Phone

# WELL LOGGING REPORT

COMPANY Amoco Prod. Co.

WELL OCS-Y-302 #1 Macs

LOCATION Blk. 140, Trk 138

Date 3-23-86 Time 24:00 Depth 3322 Present Operation Trip

Feet made 0 Hrs drlg \_\_\_\_\_ Avg drlg rate N/A

Depth last sample 3300 Sd 10% Sh \_\_\_\_\_ Other 90% SLT

Hotwire: Min. NA Depth \_\_\_\_\_ Max. \_\_\_\_\_ Depth \_\_\_\_\_ Avg. \_\_\_\_\_

H<sub>2</sub>S: Min. NA Depth \_\_\_\_\_ Max. \_\_\_\_\_ Depth \_\_\_\_\_ Avg. \_\_\_\_\_

CO<sub>2</sub>: Min. NA Depth \_\_\_\_\_ Max. \_\_\_\_\_ Depth \_\_\_\_\_ Avg. \_\_\_\_\_

Conn. gas: Min. NA Depth \_\_\_\_\_ Max. \_\_\_\_\_ Depth \_\_\_\_\_

Trip gas NA Depth \_\_\_\_\_ Lag time for trip gas \_\_\_\_\_

Chromatograph: Minimum Maximum Average Depth (max. gas)

C <sub>1</sub>	_____	_____	_____	_____
C <sub>2</sub>	_____	_____	_____	_____
C <sub>3</sub>	_____	_____	_____	_____
C <sub>4</sub>	_____	_____	_____	_____
C <sub>5</sub>	_____	_____	_____	_____

Mud properties: Wt \_\_\_\_\_ Vls \_\_\_\_\_ Wl \_\_\_\_\_ Ph \_\_\_\_\_ Cl \_\_\_\_\_

Sol \_\_\_\_\_ Oil \_\_\_\_\_ Wtr \_\_\_\_\_ Other \_\_\_\_\_

Carbide check: Depth 3253 Gas 190 Amount carbide used 8 oz.

Bottom up: Pump strokes 10675 at 190 strokes per minute, Time 56 min

Lithology and remarks: \_\_\_\_\_

\* Open Hole to 17 1/2"; Gas running 10-60 units; Avg Gas=30 u  
No new lithology to report; Current Depth=2458

\* Open Hole 2225'-3322'

Trip to run 5 bags

Run Casing

RECEIVED  
OCS DISTRICT OFFICE

MAR 25 1986

MINERALS MANAGEMENT SERVICE  
ANCHORAGE, ALASKA

Called in by \_\_\_\_\_ Talked with \_\_\_\_\_ Phone \_\_\_\_\_

# WELL LOGGING REPORT

COMPANY Amoco Prod. Co.

WELL OCS-4-302 #1 Mars

LOCATION Block 140, Track 138

Date 3-22-86 Time 24:00 Depth 3322 Present Operation Open Hole

Feet made 816 Hrs drlg 8.4 Avg drlg rate 160 ft/hr

Depth last sample 3300 Sd 10% Sh            Other 90% SLST

Hotwire: Min. 2511 Depth 2405 Max. 24011 Depth 3205 Avg. 10011

H<sub>2</sub>S: Min. 0 Depth            Max.            Depth            Avg.           

CO<sub>2</sub>: Min. 0 Depth            Max.            Depth            Avg.           

Conn. gas: Min. 011 Depth            Max. 20011 Depth 2879

Trip gas            Depth            Lag time for trip gas           

Chromatograph: Minimum Maximum Average Depth (max. gas)

C<sub>1</sub> 1738 ppm 13850 ppm 7800 ppm 3205

C<sub>2</sub>                                            

C<sub>3</sub>                                            

C<sub>4</sub>                                            

C<sub>5</sub>                                            

Mud properties: Wt            Vls            WI            Ph            CI           

Sol            Oil            Wtr            Other           

Carbide check: Depth 3253 Gas 190 Amount carbide used 8 oz.

Bottom up: Pump strokes 10675 at 190 strokes per minute, Time 56 min

Lithology and remarks:           

2400-2460-100% SLST- Hgy, sh fss, gdcg to vt SS ip, carb flks, v sft

2460-2550-80-90% SLST- a/a; Tr- 10% Tuff- wh pcr, tr pyc flks, sft; 10% SH-  
m gy, sb fss, shy, carb flks, m fcr

2550-2610-100% SLST- a/a

2610-2700-80-90% SLST- a/a; Tr- 10% Tuff- a/a; Tr- 10% SH- a/a

2700-2790-100% SLST- a/a

2790-2850-90% SLST- a/a; 10% SS- wh, trasl, f-m gr, m srt, org-sh rad,  
v sl calc, fri, frm, nsofc

2850-3300-80-100% SLST- a/a; 10-20% SS- a/a

Called in by            Talked with           

RECEIVED  
OCS DISTRICT OFFICE

MAR 25 1986

Phone             
MINERALS MANAGEMENT SERVICE  
ANCHORAGE, ALASKA

# WELL LOGGING REPORT

COMPANY Amoco Production Co

WELL DCS-Y-302 No. 1 "MARS"

LOCATION West Harrison Bay, Beaufort Sea, AK.

Date 3/20/86 Time 24:00 Depth 2186' Present Operation Drill ahead

Feet made 568' Hrs drlg 10.4 Avg drlg rate 54.6 ft/hr

Depth last sample 2130 Sd 100% Sh \_\_\_\_\_ Other SLTST-90%

Hotwire: Min. 20 Depth 2110 Max. 1100 Depth 1710 Avg. 254

H<sub>2</sub>S: Min. 0 Depth \_\_\_\_\_ Max. \_\_\_\_\_ Depth \_\_\_\_\_ Avg. \_\_\_\_\_

CO<sub>2</sub>: Min. 0 Depth \_\_\_\_\_ Max. \_\_\_\_\_ Depth \_\_\_\_\_ Avg. \_\_\_\_\_

Conn gas: Min. 0 Depth \_\_\_\_\_ Max. 0 Depth \_\_\_\_\_

Trip gas 1000 55 Depth 1650 Lag time for trip gas 26 mins

Chromatograph: Minimum Maximum Average Depth (max. gas)

C<sub>1</sub> 2000 ppm 11,000 ppm 1324 ppm 1710

C<sub>2</sub> \_\_\_\_\_

C<sub>3</sub> \_\_\_\_\_

C<sub>4</sub> \_\_\_\_\_

C<sub>5</sub> \_\_\_\_\_

Mud properties: Wt \_\_\_\_\_ Vis \_\_\_\_\_ Wl \_\_\_\_\_ Ph \_\_\_\_\_ Cl \_\_\_\_\_

Sol \_\_\_\_\_ Oil \_\_\_\_\_ Wtr \_\_\_\_\_ Other \_\_\_\_\_

Carbide check: Depth 2039' Gas 41 Amount carbide used 4.02

Bottom up: Pump strokes 5949 at 190 strokes per minute, Time 31 mins

Lithology and remarks: \_\_\_\_\_

1590 - <sup>1480</sup> 100% SD + 6VL - uncong, varic, pebs - fgsd, p-m srrd, sbnd-shang  
grz, chr, lith frags

1480 - 2040 30-40% CLY - lt gy, slty, sst

60-70% SD + 6VL - a/g

2040 - 2070 <sup>60%</sup> 100% SLTST - lt gy, varg, carb fllks, sol in HCL, sst

2 30% CLY - a/g

10% SD + 6VL - a/g

2070 - 2130 - 90-100% SLTST - a/g, pyr

0-10% SD + 6VL

Called in by \_\_\_\_\_ Talked with \_\_\_\_\_

RECEIVED  
DCS DISTRICT OFFICE

MAR 26 1986

MINERALS MANAGEMENT SERVICE  
ANCHORAGE, ALASKA

# WELL LOGGING REPORT

COMPANY AMOCO PROD. CO.

WELL OLS-Y-302 NO. 1 MARS

LOCATION WEST HARRISON BAY, AK

Date 3-19-86 Time 00:01 Depth 1618 Present Operation Drilling

Feet made 49' Hrs drlg 3.5 hrs Avg drlg rate 260

Depth last sample 1590 Sd 6VL-90% ~~90%~~ COAL-10% Other CMT CONT.

Hotwire: Min. 5 Depth 1570 Max. 20 Depth 1580 Avg. 15

H<sub>2</sub>S: Min. N/A Depth \_\_\_\_\_ Max. \_\_\_\_\_ Depth \_\_\_\_\_ Avg. \_\_\_\_\_

CO<sub>2</sub>: Min. 0 Depth \_\_\_\_\_ Max. 0 Depth \_\_\_\_\_ Avg. \_\_\_\_\_

Conn. gas: Min. N/A Depth \_\_\_\_\_ Max. \_\_\_\_\_ Depth \_\_\_\_\_

Trip gas N/A Depth \_\_\_\_\_ Lag time for trip gas \_\_\_\_\_

Chromatograph: Minimum Maximum Average Depth (max. gas)

C<sub>1</sub> 540 ppm 2000 ppm 15 1580

C<sub>2</sub> N/A \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

C<sub>3</sub> \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

C<sub>4</sub> \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

C<sub>5</sub> \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

Mud properties: Wt 8.9 Vls 42 Wt 20 Ph 12.6 Cl 2500

Sol 3% Oil \_\_\_\_\_ Wtr \_\_\_\_\_ Other \_\_\_\_\_

Carbide check: Depth 818 Gas 42 units Amount carbide used 402

Bottom up: Pump strokes 5560 at 210 strokes per minute, Time 23:30 hrs

Lithology and remarks: SD+6VL - varic, gy, blk, wh, clr, crs 25, ang,

uncons, gtz, lith frags

PAST 24 hrs - Nipple Up, RIH, Test LSG, Tag CMT @ 1519, Circ + COND  
Mud, Flood Collar @ 1521, Tag Float Shoe @ 1563,

Next Sign Activity - Drill 100', POOH, ABIT, RIH, Drill Ahead

Called in by \_\_\_\_\_ Talked with \_\_\_\_\_ Phone \_\_\_\_\_

## WELL LOGGING REPORT

COMPANY AMOCO PROD. CO.WELL OLS-Y-302 No. 1 MARSLOCATION West Harrison Bay, AKDate 3-18-86 Time 00:01 Depth 1569 Present Operation Nipple Up BOP.Feet made 0 Hrs drlg 0 Avg drlg rate N/ADepth last sample 1569 Sd 16.1 - 90% Sh                      Other Clay - 10%Hotwire: Min. N/A Depth                      Max.                      Depth                      Avg.                     H<sub>2</sub>S: Min. N/A Depth                      Max.                      Depth                      Avg.                     CO<sub>2</sub>: Min. N/A Depth                      Max.                      Depth                      Avg.                     Conn gas: Min. N/A Depth                      Max.                      Depth                     Trip gas N/A Depth                      Lag time for trip gas                     

Chromatograph: Minimum Maximum Average Depth (max. gas)

C<sub>1</sub> N/A                                                               C<sub>2</sub>                                                                                    C<sub>3</sub>                                                                                    C<sub>4</sub>                                                                                    C<sub>5</sub>                                                                                    Mud properties: Wt \* Vis                      Wl                      Ph                      Cl                     Sol                      Oil                      Wtr                      Other                     Carbide check: Depth 818 Gas 42 units Amount carbide used 402Bottom up: Pump strokes N/A at                      strokes per minute, Time                     Lithology and remarks: - Nipple Up, Test BOP's, P/u BHA, RIM, Drill CMT, Circ +  
COND mud.\* Change Over Mud After Drill CMT

## WELL LOGGING REPORT

COMPANY AMOLD PROD. CO.  
 WELL OCS-Y-302 NO.1 MARS  
 LOCATION WEST HARRISON BAY, AK  
 Date 3-16-86 Time 00:01 Depth 1569 \* Present Operation Circ Btms Up - Short Trip  
 Feet made 19 Hrs drlg 24 Avg drlg rate 20 ft/hr  
 Depth last sample 1569 Sd GVL- 90% Sh            Other CLY- 10%  
 Hotwire: Min. 13 Depth 1569 Max. 40 Depth 1555 Avg. 20  
 H<sub>2</sub>S: Min. N/A Depth            Max.            Depth            Avg.             
 CO<sub>2</sub>: Min. 0.70 Depth 1555 Max. 0.570 Depth            Avg. 0.570  
 Conn. gas: Min. N/A Depth            Max.            Depth             
 Trip gas N/A Depth            Lag time for trip gas           

Chromatograph: Minimum Maximum Average Depth (max. gas)

C <sub>1</sub>	<u>1200 ppm</u>	<u>3800 ppm</u>	<u>2400 ppm</u>	<u>1550</u>
C <sub>2</sub>	<u>N/A</u>	<u>          </u>	<u>          </u>	<u>          </u>
C <sub>3</sub>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
C <sub>4</sub>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>
C <sub>5</sub>	<u>          </u>	<u>          </u>	<u>          </u>	<u>          </u>

Mud properties: Wt 9.5+ Vis 35 WI 45 Ph 8.5 CI 13500  
 Sol 870 Oil            Wtr            Other Not Plug

Carbide check: Depth 818 Gas 42 units Amount carbide used 4 oz.

Bottom up: Pump strokes 9504 at 170 strokes per minute, Time 23:00 hrs

Lithology and remarks:

GVL- varic, blk, gy, wh, grn, pbls - cns gr, sb rnd - rnd,  
uncons, qtz, cht, pyr, lith frags  
CLY- gy, brn, stky, sft, slty

\* Open hole to 26" f/350 - 1569, Circ Btms Up, Short Trip,  
 POOH, Run CSG

Received  
 OCS District Office

MAR 18 1986

called in by            Talked with            Minerals Management Service  
 Anchorage, Alaska

COMPANY AMOCO PROD. CO.

WELL OCS-Y-302 NO. 1 MARS

LOCATION WEST HARRISON BAY, AK

Date 3-15-86 Time 00:01 Depth 1550-12 1/2 Present Operation Open Hole to

Feet made 549 Hrs drlg 4.5 Avg drlg rate 450 Ft/hr

Depth last sample 1550 Sd+GVL- 90% Sh \_\_\_\_\_ Other CLAY 10%

Hotwire: Min. 12 Depth 800 Max. 72 Depth 1125 Avg. 35

H<sub>2</sub>S: Min. N/A Depth \_\_\_\_\_ Max. \_\_\_\_\_ Depth \_\_\_\_\_ Avg. \_\_\_\_\_

CO<sub>2</sub>: Min. 0.5% Depth \_\_\_\_\_ Max. 0.5% Depth \_\_\_\_\_ Avg. 0.5%

Conn. gas: Min. N/A Depth \_\_\_\_\_ Max. \_\_\_\_\_ Depth \_\_\_\_\_

Trip gas N/A Depth \_\_\_\_\_ Lag time for trip gas \_\_\_\_\_

Chromatograph:	Minimum	Maximum	Average	Depth (max. gas)	
C <sub>1</sub>	<u>1200 ppm</u>	<u>7200 ppm</u>	<u>3500 ppm</u>	<u>1125</u>	<u>All METHANE</u>
C <sub>2</sub>	<u>N/A</u>				
C <sub>3</sub>					
C <sub>4</sub>					
C <sub>5</sub>					

Mud properties: Wt 9.4 Vis 37 Wl 45 Ph B Cl 8200

Sol 67% Oil N/A Wtr \_\_\_\_\_ Other Not Plug

Carbide check: Depth 818 Gas 42 units Amount carbide used 4 oz

Bottom up: Pump strokes 2510 at 160 strokes per minute, Time 05:30 hrs.

Lithology and remarks: GVL- varic, blk, gy, brn, wh, clr, gn, pbls- crs gr,  
sbnd- rnd, UNCONS, gtz, tr ch, tr pyg, lith  
frags

CLY- gy, brn, slty, gmy, stky, sft

\* Open hole to 26" - 12 hrs

00:01 Present Depth 350

Received  
OCS District Office

MAR 18 1986

Called In by \_\_\_\_\_ Talked with \_\_\_\_\_ Mineral Management Service  
Anchorage, Alaska



## WELL LOGGING REPORT

Y AMOCO PROD. CO.OLS-Y-302 NO. 1 MARSON WEST HARRISON BAY, AK14-86 Time 00:01 Depth 1001 Present Operation Drlgde 880 Hrs drlg 18 Avg drlg rate 145 ft/hr1st sample 960 Sdt GVL - 60% Tr Coal Other CLY - 40%: Min. 2 Depth 200-550 Max. 38 Depth 725 Avg. 21n. N/A Depth \_\_\_\_\_ Max. \_\_\_\_\_ Depth \_\_\_\_\_ Avg. \_\_\_\_\_n. .05% Depth \_\_\_\_\_ Max. .05% Depth \_\_\_\_\_ Avg. .05%s: Min. N/A Depth \_\_\_\_\_ Max. \_\_\_\_\_ Depth \_\_\_\_\_s NONE - N/A Depth 146 Lag time for trip gas N/A

tograph: Minimum Maximum Average Depth (max. gas)

C<sub>1</sub> 2 38 15 725C<sub>2</sub> N/A N/A N/A \_\_\_\_\_C<sub>3</sub> \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_C<sub>4</sub> \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_C<sub>5</sub> \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_Properties: Wt 9.2 Vis 50 WI 20 Ph 9.0 CI 4/100Sol 7% Oil N/A Wtr \_\_\_\_\_ Other About Not Pluga check: Depth 818 Gas 42 units Amount carbide used 4ozup: Pump strokes 1567 at 150 strokes per minute, Time 22:30gy and remarks: SD+GVL - varic, blk, gy, clr, wh, pbls, crs gr, p srt,  
rnd-sb rnd, unconc, pyr, qtz, lith frag  
(LY - ltgy, gy brn, gmmy, stky, slty, sftReceived  
OCS District Office

MAR 17 1986

Minerals Management Service  
Anchorage, Alaska

in by \_\_\_\_\_ Talked with \_\_\_\_\_ Phone \_\_\_\_\_

COMPANY AMOCO Prod. Co.

WELL OCS-Y-302 NO. 1 MARS.

LOCATION West Harrison Bay, Beaufort Sea, AK

Date 3-13-86 Time 00:01 Depth 121 Present Operation Drilling

Feet made 46' Hrs drlg 6 hrs Avg drlg rate 15 ft/hr

Depth last sample 120' Sd \_\_\_\_\_ Sh \_\_\_\_\_ Other 100% Clay

Hotwire: Min. \_\_\_\_\_ Depth \_\_\_\_\_ Max. \_\_\_\_\_ Depth \_\_\_\_\_ Avg. 2

H<sub>2</sub>S: Min. N/A Depth \_\_\_\_\_ Max. \_\_\_\_\_ Depth \_\_\_\_\_ Avg. \_\_\_\_\_

CO<sub>2</sub>: Min. 0% Depth 110 Max. .05% Depth 100 Avg. .05%

Conn. gas: Min. N/A Depth \_\_\_\_\_ Max. N/A Depth \_\_\_\_\_

Trip gas N/A Depth \_\_\_\_\_ Log time for trip gas N/A

Chromatograph: Minimum Maximum Average Depth (max. gas)

C<sub>1</sub> 155 ppm 1011 ppm 250 ppm 113

C<sub>2</sub> N/A \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

C<sub>3</sub> \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

C<sub>4</sub> \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

C<sub>5</sub> \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_

Mud properties: Wt \_\_\_\_\_ Vis \_\_\_\_\_ Wl \_\_\_\_\_ Ph \_\_\_\_\_ Cl \_\_\_\_\_

Sol \_\_\_\_\_ Oil \_\_\_\_\_ Wtr \_\_\_\_\_ Other \_\_\_\_\_

Carbide check: Depth N/A Gas \_\_\_\_\_ Amount carbide used \_\_\_\_\_

Bottom up: Pump strokes 727 at 140 strokes per minute, Time 23:45

Lithology and remarks: CLAY - gy, gmy, sft

Received  
OCS District Office

MAR 17 1986

Minerals Management Service  
Anchorage, Alaska

Called in by \_\_\_\_\_ Talked with \_\_\_\_\_ Phone \_\_\_\_\_

## WELL LOGGING REPORT

COMPANY Amoco Production Co.WELL OCS-Y-302 No. 1 MarsLOCATION West Harrison Bay, AKDate 3/13/86 Time 04:15 hrs Depth 146' Present Operation Drill aheadFeet made 25' Hrs drlg 4.5 Avg drlg rate 8 ft/hrDepth last sample 120' Sd \_\_\_\_\_ Sh \_\_\_\_\_ Other 100% Clay

Hotwire: Min. \_\_\_\_\_ Depth \_\_\_\_\_ Max. \_\_\_\_\_ Depth \_\_\_\_\_ Avg. \_\_\_\_\_

H<sub>2</sub>S: Min. 0 Depth \_\_\_\_\_ Max. 0 Depth \_\_\_\_\_ Avg. \_\_\_\_\_CO<sub>2</sub>: Min. 0.05% Depth 80-130' Max. 0.05% Depth 80-130' Avg. 0.025%Conn. gas: Min. 0 Depth \_\_\_\_\_ Max. \_\_\_\_\_ Depth \_\_\_\_\_Trip gas N/A Depth \_\_\_\_\_ Lag time for trip gas \_\_\_\_\_

Chromatograph: Minimum Maximum Average Depth (max. gas)

C<sub>1</sub> 172 ppm 726 ppm 242 ppm 140'C<sub>2</sub> 0 \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_C<sub>3</sub> 0 \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_C<sub>4</sub> 0 \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_C<sub>5</sub> 0 \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_Mud properties: Wt 8.9<sup>+</sup> Vis 75 WI 14.8 Ph 9.0 CI 4500

Sol \_\_\_\_\_ Oil \_\_\_\_\_ Wtr \_\_\_\_\_ Other \_\_\_\_\_

Carbide check: Depth \_\_\_\_\_ Gas \_\_\_\_\_ Amount carbide used \_\_\_\_\_

Bottom up: Pump strokes \_\_\_\_\_ at \_\_\_\_\_ strokes per minute, Time \_\_\_\_\_

Lithology and remarks: \_\_\_\_\_

100% Clay - large volume of cuttings over shakers.pump nutplug to clean out hole with moderate success.Received  
OCS District Office

MAR 17 1986

Minerals Management Service  
Anchorage, Alaska