



HUSKY OIL NPR OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 12/31/78 Time 06:00
Present Depth 6305' Previous Depth 6242' Footage 24 Hrs. 53'
Formation(s) LOWER CRETACEOUS Top near surface
Present Activity: Drilling

LITHOLOGIC DESCRIPTION

Interval Reported 6230-6290' Sampling Interval 10 ft. Sample Quality fair
Log Time: 87 min. @ 6300 ft.

Interval	Description	Avg. Drill Rate min./ft.
6230-6258'	Ss: gy brn, S&P, f. - v.f.-grnd; SA-SR, fair strg, ark in part, mod w. ind, sl arg, abnt coaly and carb incls and lams, nil to poor vis intrgran por, No Show; grds to Sltst towards base.	5.0 - 8.0
6258-6270'	Sltst: lt gy, sdy, hd, brittle, blk.	12.0
6270-6280'	Ss: a/a @ 6230'.	6.4
6280-6290'	Sh: dk gy, blk - plty, micromica in part.	10.5 - 12.0
REQUEST: USGS report on Topagruk #1		

SHOW DESCRIPTION (Gas and/or Oil)

Depth	Peak Units	Chromatograph (ppm)
6245'	360	C ₁ - 52,000, C ₂ - 2500, C ₃ - 500, C ₄ - tr, C ₅ - tr

Ditch Gas (Units): Background 50 - 70 Connection 0 Trip 210 @ 6268' Peaks 360 @ 6245'

Mud: Wt 10.0 Vis 40 W.I. 13.5 ph 9.0 cc Oil 21,000 % Cl₂ Temp. 112 of. in 120 of. out
Max temp 132 °F. on trip

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure
6250'	2.60	1.48	9.60
6300'	2.60	1.56	9.60

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)	5840-6100'	1	
Unwashed Ditch (USGS)	5840-6100'	1	
GeoChem (canned)	5900-6260'	1	
Cores	No.		

Geologist DAVE FENEX



HUSKY OIL NPR OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 1-1-79 Time 06:00
 Present Depth 6452' Previous Depth 6305' Footage 24 Hrs. 147'
 Formation(s) LOWER CRETACEOUS Top near surface
 Present Activity: RIH after locating washout.

LITHOLOGIC DESCRIPTION

Interval Reported 6290-6440' Sampling Interval 10 ft. Sample Quality fair - good
 Lag Time: 86 min. @ 6450 ft.

Interval	Description	Avg. Drill Rate min./ft.
6290-6310'	Sltst: gy brn, to S&P, v. arg, carb inclus, w. ind; w/some Sh, dk gy brn, blkv, plty, firm.	9.0 - 12.0
6310-6332'	Ss: gy brn, v.f. - f.-grnd, f. srt'd, SA-SR, carb lam and abnt crs inclus, arkosic, well ind, nil vis por; w/intrbd Sh a/a.	6.6
6332-6370'	Intrbd Sltst and Sh a/a.	7.5 - 8.6
6370-6440'	Intrbd Ss a/a @ 6310', nil vis por, no show, w/intrbd Sh and Sltst a/a.	4.0 - 7.0
6440-6452'	No samples.	

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background 30-60 Connection nil Trip 200 @ 6430'
 Peaks 120 @ 6395'

Mud: Wt 10 Vis 39 W.L. 14 ph 9 cc Oil 22,500 %Cl₂ Temp. 130 °F. in 134 °F. out

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure
6350'	2.59	1.60	9.65
6400'	2.58	1.59	9.71
6450'	2.59	1.57	9.83

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)	6100-6330'	1	
Unwashed Ditch (USGS)	6100-6330'	1	
GeoChem (canned)			
Cores	No.		

Geologist DAVE FENEX



HUSKY OIL NPR OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY, ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 1/2/79 Time 06:00
 Present Depth 6514' Previous Depth 6452' Footage 24 Hrs. 62'
 Formation(s) TOROK Top 6015'
 Present Activity: POH w/Core #4

LITHOLOGIC DESCRIPTION

Interval Reported 6440-6490' Sampling Interval 10 ft. Sample Quality fair - good
 Lag Time: 87 min. @ 6500 ft.

Interval	Description	Avg. Drill Rate min./ft.
6440-6504'	Intrbddd. Sh and Sltst. Sh, dk gy, blk, firm, slty, w/Sltst GK gy, arg, w/f. carb lam and inclus, firm; w/thn bds Ss it gy, v.f.-grad - slty, S&P, mod fri, v. poor intrgran por, NOSCE.	5.5 - 10.0
6504-6514'	Core #4, Cut 10', Rec. 7.25' (73%)	
6504 - 6505.25	- Sh, dk gy brn, slty, plty, f. carb inclus w/thn slty zones.	
6505.25 - 6507.70	- Sltst, w/irreg lams of Sh a/a.	
6507.7 - 6509.5	- Sh, a/a w/rhn slty zones.	
6509.5 - 6510.6	- Sltst a/a	
6510.6 - 6511.25	- Sh a/a.	
6511.25 - 6514	- No recovery.	

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background 50-75 Connection 75 Trip 240 @ 6504' Peaks 180 @ 6460'

Mud: Wt 10.0 Vis 39 w.I. 14.0 ph 9.5 cc Oil % Cl₂ 19,000 Temp 128 °F. in 130 °F. out
 Max temp on trip 131° @ 6504'

Data Unit:

Depth	Shale Density	De Exponent	Pore Pressure
6500'	2.58	1.68	9.88

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No. 4 6504-6514'	3	1

Geologist DAVE FENEX



HUSKY OIL NPR OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 1/3/79 Time 06:00
 Present Depth 6521' Previous Depth 6514' Footage 24 Hrs. 107
 Formation(s) TOROK Top 6015'
 Present Activity: Drilling

LITHOLOGIC DESCRIPTION

Interval Reported 6514-6610' Sampling Interval 10 ft. Sample Quality good
 Log Time: 92 min. @ 6599 ft.

Interval	Description	Avg. Drill Rate min./ft.
6514-6525'	Sltst: brn. arg. well ind. micromica, w/f. dis carb inclus.	10.0
6525-6552'	Ss: lt gy, v.f. - f.-grnd, fr srtg, SR-SA, mod fri - some uncons; some carb lam and inclus, p irregular por, no shows, grds to Sltst in pt.	5.0 - 9.2
6552-6572'	Sh: dk gy brn, slty, grds to Sltst, micromica, f. dis carb inclus, firm, plty, blk.	10.5 - 12.0
6572-6602'	Ss: lt gy, S&P a/a.	7.2
6602-6610'	Sh: a/a.	11.6

SHOW DESCRIPTION (Gas and/or Oil)

Depth	Total Gas Units	Chromatograph (ppm)		
		C ₁	C ₂	C ₃
6530'	120	175,000	Tr	Tr
6590'	200	43,000	3000	Tr

Ditch Gas (Units): Background 10 - 30 Connection none Trip 100 @ 6514' Peaks 200 @ 6590'
120 @ 6530'

Mud: Wt. 10.0 Vis 39 W.L. 14.0 ph 9.0 cc Oil - %Cl₂ 19500 Temp. 121 °F. in 130 °F. out
 Max temp 130° on trip @ 6514'

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure
6550'	2.59	1.67	9.83
6600'	2.59	1.72	9.75

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch	5900-6520'	2	
Unwashed Ditch (Paleo)	6330-6570'	1	
Unwashed Ditch (USGS)	6330-6570'	1	
GeoChem (canned)	6260-6620'	1	
Cores	No.		

Geologist DAVE FENEX



HUSKY OIL OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 1/4/79 Time 06:00
 Present Depth 5704' Previous Depth 6621' Footage 24 Hrs. 83'
 Formation(s) TOROK Top 6015'
 Present Activity: Drilling; tripped at 6696' (Bit #21)

LITHOLOGIC DESCRIPTION

Interval Reported 6610-6690' Sampling Interval 10 ft. Sample Quality good
 Lag Time: 95 min. @ 6690 ft.

Interval	Description	Avg. Drill Rate min./ft.
6610-6675'	Sh: dk gy brn, v. slty, grds to Silst, micromica, pity - biky, becomes smooth, splintery towards base w/chn bds Ss a/a: sl calc.	10 - 11
6675-6695'	Ss: lt gy, S&P, p. - fr srt'd, v.f.-grnd - med-grnd, SA-SR, mod fri, calc, abnt crs carb inclus and lams, p. - fair intrgran por, NGSCF, tr coal, max 600 units ditch gas at 6690'.	2.0 - 5.0

SHOW DESCRIPTION (Gas and/or Oil)

Depth	Total Gas Units	Chromatograph (ppm)				
		C ₁	C ₂	C ₃	C ₄	C ₅
6677'	400	87,000	6000	300	0	0
6690'	600	168,000	7500	200	0	0

Ditch Gas (Units): Background 80 - 110 110 @ 6693' 600 @ 6690'
Connection 80 @ 6663' Trip 120 @ 6696' Peaks 400 @ 6677'

Mud: Wt. 10.0 Vis 41 W.I. 13.5 ph 8.7 cc Oil _____ % C₁₂ 19000 Temp. 131 °F. in 143 °F. out
 Max temp during trip @ 134°

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure
6650'	2.61	1.70	9.70
6700'	2.57	1.63	9.75

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paico)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		

Geologist DAVE FENEX



HUSKY OIL NPR OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 1/5/79 Time 06:00
Present Depth 6846' Previous Depth 6704' Footage 24 Hrs: 142'
Formation(s) TOROK Top 6015'
Present Activity: Drilling

LITHOLOGIC DESCRIPTION

Interval Reported 6695-6830' Sampling Interval 10 ft. Sample Quality good
Lag Time: 97 min. @ 6840 ft.

Interval	Description	Avg. Drill Rate min./ft.
6695-6707'	Sh: dk gy - blk. pity - blk. smooth - firm.	11.5 - 12.0
6707-6728'	Ss: lt gy, S&P, med-grnd, occ crs-grnd, p. srted, SA-SR, mod fri to uncons, calc, ark, fair - good intrgrn por, NOSCF, some carb inclus and lam.	2.0 - 6.0
6728-6770'	Sh: dk gy, a/a, becomes slty, grds to sltst w/tn bds Ss a/a, becomes v.f.-grnd, mod - well ind, nil vis por, NOSCF.	10.0 - 14.0
6770-6818'	Ss: lt gy, S&P, a/a, v.f. - f.-grnd, v. p. - fr intrern vis por, no show.	4.0 - 8.0
6818-6830'	Sh: a/a at 6728'.	

SHOW DESCRIPTION (Gas and/or Oil)

Depth	Total Gas Units	Chromatograph (ppm)		
		C ₁	C ₂	C ₃
6710'	230	12,000	1000	200
6725'	300	250,000	2500	100
6775'	270	33,000	2000	100

Ditch Gas (Units): Background 10 - 30 Connection - Trip - Peaks -

Mud: Wt. 10.1 Vis 42 W.I. 13.5 ph 9.8 cc Oil - % Cl₂ 19,000 Temp. 124 °F. in 132 °F. out

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure
6750'	2.61	1.63	9.80
6800'	2.58	1.56	9.79

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)	6570-6780'	1	
Unwashed Ditch (USGS)	6570-6780'	1	
GeoChem (canned)			
Cores	No.		

Geologist: DAVE FENEX



HUSKY OIL OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 1-6-79 Time 06:30
 Present Depth 6906' Previous Depth 6846' Footage 24 Hrs. 60
 Formation(s) TOROK Top 6015'
 Present Activity: Drilling

LITHOLOGIC DESCRIPTION

Interval Reported 6830-6890' Sampling Interval 10 ft. Sample Quality good
 Lag Time: 97 min. @ 6890 ft.

Interval	Description	Avg. Drill Rate min./ft.
<u>6830-6890'</u>	<u>Ss and Sh: Ss: gy, S&P, ark - f. - v.f. grn, fair srted, SA-SR, v. well ind. calc, nil intgran por, NOSCFC; and Sh: dk gy, plty - blk, smooth, some carb inclus, firm; Slstst: dk gy, v. arg, blk, firm, some carb inclus.</u>	<u>12.0 - 14.0</u>

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background 10-30 Connection 0 Trip 100 @ 6857' Peaks none

Mud: Wt. 10.1 Vis 40 W.L 13.0 ph 9.0 cc Oil 0 % Cl₂ 20.000 Temp. 122 °F. in 130 °F. out
 Max temp recorded on trip 130 °

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure
<u>6850'</u>	<u>2.60</u>	<u>1.71</u>	<u>9.80</u>
<u>6900'</u>	<u>-</u>	<u>1.73</u>	<u>9.82</u>

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
<u>Washed & Dried Ditch</u>			
<u>Unwashed Ditch (Paleo)</u>			
<u>Unwashed Ditch (USGS)</u>			
<u>GeoChem (canned)</u>			
<u>Cores</u>	<u>No.</u>		

Geologist DAVE FENEX



HUSKY OIL NPR OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 1-7-79 Time 06:00
 Present Depth 7037' Previous Depth 6906' Footage 24 Hrs. 131
 Formation(s) TCROK Top 6015'
 Present Activity: Drilling

LITHOLOGIC DESCRIPTION

Interval Reported 6890-7020' Sampling Interval 10 ft. Sample Quality good
 Lag Time: 134 ? min. @ 7030 ft.

Interval	Description	Avg. Drill Rate min./ft.
6890-6910'	Slstst: dk gy, v. arg, bkly, firm, some carb inclus.	9.0
6910-6930'	Sh: dk gy, micromica, smooth to occ slty, grds to Slstst, firm	11.0 - 12.0
6930-6950'	Ss: gy, S&P, ark - f.-grnd, f. srted, SA-SR, firm, calc. tr glau, no vis por, NOSCF.	7.0 - 9.0
6950-7020'	Sh & Ss: intrbds, Sh: dk gy, smooth - slty, grds to Slstst, in part plty to bkly, firm; w/thn Ss bds a/a.	9.0 - 11.0
<u>REQUEST:</u>		
1. Manila envelopes (10x15")		
2. Sample Transmittal forms.		

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background 20 - 40 Connection 50 @ 6974' Tripp none Peaks 60 @ 6985'

Mud: Wt. 10.1 Vis 39 W.L. 13.5 ph 9.0 cc Oil 0 % Cl₂ 19000 Temp. 128 °F. in 134 °F. out

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure
6900'	2.61	1.73	9.82
6950'	2.57	1.72	9.86
7000'	2.61	1.67	9.89

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)	6780-6990'	1	
Unwashed Ditch (USGS)	6780-6990'	1	
GeoChem (canned)	6620-6980'	1	
Cores	No.		

Geologist DAVE FENEX



HUSKY OIL NPR OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 1-8-79 Time 06:00
 Present Depth 7120' Previous Depth 7037' Footage 24 Hrs. 83
 Formation(s) TOROK Top 6015'
 Present Activity: Drilling (tripped @ 7045' for bit)

LITHOLOGIC DESCRIPTION

Interval Reported 7020-7100' Sampling Interval 10 ft. Sample Quality good
 Lag Time: 120 min. @ 7098 ft.

Interval	Description	Avg. Drill Rate min./ft.
7020-7100'	Intrbddd Sltst and Sh: dk gy brn, arg, carb inclus, grds to Ss in part, w/Sh dk gy, plty, bkly, micromica, slty in part, firm	8.0 - 12.0

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background 20-40 Connection 0 Trip 100 @ 7045' Peaks none

Mud: Wt. 10.1 Vis 43 w.L. 13.5 ph 9.5 cc Oil % Cl₂ 19,000 Temp. 126 °F. in 130 °F. out
 Max temp 135 °F. during trip

Data Unit:

Depth	Shale Density	Dc Exponent	Port Pressure
7000'	2.61	1.67	9.89
7050'	2.60	1.74	9.88
7100'	2.60	1.72	9.92

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		



HUSKY OIL NPR OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 1/9/79 Time 06:00
 Present Depth 7225' Previous Depth 7120' Footage 24 Hrs. 105'
 Formation(s) TOROK Top 6015
 Present Activity: Drilling

LITHOLOGIC DESCRIPTION

Interval Reported 7100-7210' Sampling Interval 10 ft. Sample Quality good
 Lag Time: 133 min. @ 7220 ft.

Interval	Description	Avg. Drill Rate min./ft.
7100-7210'	Interbedd Siltst and Sh s/a	10.0 - 12.0

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background 5-20 Connection 0 Trip 50 @ 7120' Peaks short trip
 Mud: Wt. 10.2 Vis 42 W.L. 13.5 ph 9.0 cc Oil % Cl₂ 19,000 Temp. 126 °F. in 132 °F. out
 Max temp on trip 128°F.

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure
7150'	2.54	1.74	9.85
7200'	2.60	1.75	9.86

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		

Geologist DAVE FENEX



HUSKY OIL NPR OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TONALIK #1 Date 1/10/79 Time 06:00
 Present Depth 7231' Previous Depth 7225' Footage 24 Hrs. 36
 Formation(s) TOROK Top 6015'
 Present Activity: Drilling, tripped at 7225' for bit.

LITHOLOGIC DESCRIPTION

Interval Reported 7210-7260' Sampling Interval 10 ft. Sample Quality good
 Lag Time: 151 min. @ 7253 ft.

Interval	Description	Avg. Drill Rate min./ft.
7210-7250'	<u>Sltst and Sh s/a</u>	<u>9.3 - 11.0</u>
7250-7260'	<u>Ss: gy brn, S&P, v.f. grn, S&P, slty, fr srtg, SA-SR, v.w. ind. nil vis por, NOSCF.</u>	<u>9.3 - 11.0</u>

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background 5-20 Connection 0 Trip 45 @ 7225' Peaks none

Mud: Wt. 10.3 Vis 45 W.I. 14.0 ph 9.0 cc Oil _____ % Cl₂ 19.000 Temp. 124 °F. in 126 °F. out
 Max temp on trip 133 °F.

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure
<u>7250'</u>	<u>2.60</u>	<u>1.71</u>	<u>9.73</u>

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
<u>Washed & Dried Ditch</u>			
<u>Unwashed Ditch (Paleo)</u>	<u>6990-7200'</u>	<u>1</u>	<u>Box #20</u>
<u>Unwashed Ditch (USGS)</u>	<u>6990-7200'</u>	<u>1</u>	<u>Box #20</u>
<u>GeoChem (canned)</u>			
<u>Cores</u>	<u>No.</u>		

Geologist DAVE FENEX



HUSKY OIL NPR OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TONALIK #1 Date 1/11/79 Time 05:00
 Present Depth 7392' Previous Depth 7281' Footage 24 Hrs. 111
 Formation(s) TOROK Top 6015'
 Present Activity: Drilling

LITHOLOGIC DESCRIPTION

Interval Reported 7260-7370' Sampling Interval 10 ft. Sample Quality good
 Lag Time: 127 min. @ 7385 ft.

Interval	Description	Avg. Drill Rate min./ft.
7260-7370'	Intrbddd Sh and Slstst a/a.	10.0 - 11.0

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background 10-20 Connection 0 Trip 45 @ 7293' Peaks Short trip

Mud: Wt. 10.3 Vis 47 W.L. 15 ph 9.1 cc Oil %Cl₂ 17,000 Temp. 126 °F. in 132 °F. out Max trip temp 130°F. @ 7293'

Data Unit:

Depth	Shale Density	De Exponent	Pore Pressure
7300'	2.58	1.71	9.82
7350'	2.61	1.69	9.79

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch	6520-7280'	2	1 and 2
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)	6980-7340'	1	
GeoChem (canned)			
Cores	No.		

Geologist DAVE FENEX



HUSKY OIL NPR OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/GNPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 1/12/79 Time 05:00
 Present Depth 7438' Previous Depth 7291' Footage 24 Hrs. 57
 Formation(s) TOROK Top 6015'
 Present Activity: Trip in hole

LITHOLOGIC DESCRIPTION

Interval Reported 7370-7430' Sampling Interval 10 ft. Sample Quality good
 Lag Time: 124 min. @ 7385 ft.

Interval	Description	Avg. Drill Rate min./ft.
<u>7370-7430</u>	<u>Sh: dk gy - blk. splty - blk. micromica. firm.</u>	<u>9.0</u>
	<u>NOTE: Copies of paleo reports to wellsite for final report.</u>	

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background 10 Connection 0 Trip 180 @ 7395' Peaks -

Mud: Wt. 10.2 Vis. 44 W.L. 14.0 ph. 9.0 cc Oil - % Cl₂ 18.000 Temp. 114 °F. in 2 °F. out
 Max temp on trip 122°F. @ 7395

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure
<u>7400'</u>	<u>2.54</u>	<u>1.66</u>	<u>9.82</u>

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)	<u>6520-7280'</u>	<u>1</u>	<u>Box #8</u>
GeoChem (canned)	<u>6980-7340'</u>	<u>1</u>	<u>Box #24</u>
Cores	No.		



DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 1/13/79 Time 06:00
 Present Depth 7513' Previous Depth 7438' Footage 24 hrs. 75
 Formation(s) TOROK Top 6015'
 Present Activity: Drilling

LITHOLOGIC DESCRIPTION

Interval Reported 7430-7510' Sampling Interval 10 ft. Sample Quality good
 Lag Time: 125 min. @ 7385 ft.

Interval	Description	Avg. Drill Rate min./ft.
7430-7500'	Sh: dk gy - blk, a/a, w/rr slitst a/a.	8.0 - 9.0
	<u>REQUEST</u>	
	<u>Pentel pens - 1 dozen (ball point, ex fine, R-56 blk)</u>	

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background 15 Connection - Trip 38 @ 7438' Peaks -

Mud: Wt. 10.4 Vis 48 W.L. 14.0 ph 9.0 cc Oil _____ % Cl₂ 19,000 Temp. 124 °F. in 126 °F. out
 Max temp on trip 132 °F. @ 7438

Data Unit:

Depth	Shale Density	De Exponent	Pore Pressure
7450'	2.60	1.64	9.82
7500'	2.62	1.56	9.92

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)	7200-7460'	1	Box #21
Unwashed Ditch (USGS)	7200-7460'	1	Box #21
GeoChem (canned)			
Cores	No.		

Geologist DAVE FENEX



HUSKY OIL NPR OPERATIONS, INC.
 U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 1-15-79 Time 06:00
 Present Depth 7641' Previous Depth 7630' Footage 24 Hrs. 11
 Formation(s) TOROK Top 6015'
 Present Activity: Test BOPE

LITHOLOGIC DESCRIPTION

Interval Reported 7610-7630' Sampling Interval 1.0 ft. Sample Quality good
 Lag Time: 142 min. @ 7553 ft.

Interval	Description	Avg. Drill Rate min./ft.
<u>7610-7630'</u>	<u>Sh: dk gy - blk, smooth, mica, blk - splintery.</u>	<u>12.0</u>

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background 18 Connection 0 Trip 0 Peaks none

Mud: Wt. 10.5 Vis 47 W.L. 14.0 ph 9.0 cc Oil 0 % Cl₂ 20.000 Temp. 136 °F. in 125 °F. out

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		

Geologist DAVE FENEX



HUSKY OIL OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 1-16-79 Time 06:00
 Present Depth 7641' Previous Depth 7621' Footage 24 hrs. 2
 Formation(s) TOROK Top 6015'
 Present Activity: Tripping in w/bit

LITHOLOGIC DESCRIPTION

Interval Reported _____ Sampling Interval _____ ft. Sample Quality _____
 Lag Time: _____ min. @ _____ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background _____ Connection _____ Trip _____ Peaks _____

Mud: Wt. 10.5 Vis 47 W.I. 14.0 ph 9.0 cc Oil 0 % Cl₂ 20,000 Temp. _____ °F. in _____ °F. out

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		

Geologist DAVE PENNY



HUSKY OIL/NPR OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 1-17-79 Time 06:00
Present Depth 7753' Previous Depth 7641' Footage 24 Hrs. 112
Formation(s) TOROK Top 6015'
Present Activity: Drilling

LITHOLOGIC DESCRIPTION

Interval Reported 7630-7740' Sampling Interval 10 ft. Sample Quality good
Lag Time: 135 min. @ 7672' ft.

Interval	Description	Avg. Drill Rate min./ft.
7630-7722'	Predominantly Sh: dk gy - blk, a/a, smooth to slty, micromica, blk.	8.0 - 9.0
7722-7728'	Ss: dk gy, arg, S&P, v.f. grn - slty, carb, nil vis por, NOSCF.	7.0
7728-7740'	Sh: a/a (7630-7722')	10.0

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background 30 Connection 40 Trip 176 @ 7641'
60 @ 7737' (short trip) Peaks 88 @ 7739'

Mud: Wt. 10.6 Vis 51 W.L. 12.0 ph 9.5 cc Oil 0 %Cl₂ 19000 Temp. 124 °F. in 127 °F. out
Max temp on trip 131 °F.

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure
7650'	2.64	1.64	10.01
7700'	2.62	1.69	10.03
7750'	-	1.72	10.05

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)	<u>7340-7700'</u>	<u>1</u>	
Cores	No.		



DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 1-18-79 Time 06:00
 Present Depth 7870' Previous Depth 7753' Footage 24 Hrs. 117'
 Formation(s) TOROK Top 6915'
 Present Activity: Tripping for core bbl.

LITHOLOGIC DESCRIPTION

Interval Reported 7740-7850' Sampling Interval 10 ft. Sample Quality good
 Lag Time: 135 min. @ 7800 ft.

Interval	Description	Avg. Drill Rate min./ft.
7740-7850'	Sh: dk gy - blk, blk to occ splintery; w/Sltst: gy - brn, arg. calc, blkv, well ind, w/intrbddd Ss at 7802-7808' and 7838-7845', dk gy - gy brn, S&P, arg, v.f. grn - slty, poor srted, SA-SR, calc, nil intgran por, NOSCF.	8.0 - 10.0 7.5 - 8.0 (Ss)

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background 40-60 Connection 62 @ 7797' short trip Trip 60 @ 7736' Peaks 74 @ 7850'

Mud: Wt. 10.6 Vis 52 W.L. 14.0 ph 9.0 cc Oil 0 % Cl₂ 20,000 Temp. 138 °F. in 114 °F. out
 Max temp on trip 134°F.

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure
7750'	2.60	1.72	10.05
7800'	2.64	1.73	10.10
7850'	2.64	1.69	10.32

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)	7460-7780'	1	Box #22
Unwashed Ditch (USGS)	7460-7780'	1	Box #22
GeoChem (canned)			
Cores	No.		

Geologist DAVE FENEX



DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 1-19-79 Time 05:00
Present Depth 7880' Previous Depth 7870' Footage 24 Hrs. 10
Formation(s) TOROK Top 6015'
Present Activity: Trip in w/bit

LITHOLOGIC DESCRIPTION

Interval Reported 7870-7880' Sampling Interval core ft. Sample Quality excellent
Lag Time: 135 min. @ 7800 ft.

Interval	Description	Avg. Drill Rate min./ft.
7870-7880'	CORE #5 Cut 10', Rec 10' (100%)	
	Sh: dk gy - brn, silty, fis - plty, micromica, w/rr f. - med carb inclus, mod ind w/occ thin irregular lam and blebs of Siltst, gy	14.0 - 15.5

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background 46 Connection none Trip 50 @ 7870' Peaks none

Mud: Wt 10.7 Vis 52 W.L. 13.0 ph 9.5 cc Oil 0 % C12 20,000 Temp 138 °F. in 114 °F. out
Max temp on trip 119 °F.

Data Unit:

Depth	Shale Density	Dc Exponent	Porc Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)	CORE #5 7870-7880'	1	
Cores	No. 5 7870-7880'	4	



HUSKY OIL NPR OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY, ONPRA

DAILY GEOLOGICAL REPORT

WELL TINNIK #1 Date 1-20-79 Time 06:00
Present Depth 8035' Previous Depth 7380' Footage 24 hrs. 155
Formation(s) TOROK Top 6015'
Present Activity: Short tripping

LITHOLOGIC DESCRIPTION

Interval Reported 7880-8020' Sampling Interval 10 ft. Sample Quality good
Lag Time: 147 min. @ 8000 ft.

Interval	Description	Avg. Drill Rate min./ft.
7880-7910'	Sh and Sltst: a/a	8.0 - 11.0
7910-7945'	Ss: gy - brn, S&P, v.f. grn - slty, p. srt'd, SA-SR, w. ind, some carb inclus, nil intgran por, NOSCF, w/intrb'dd Sltst and Sh a/a.	5.0 - 8.0
7945-7983'	Ss: a/a, becomes f. grn, fri, poor - fair intgran por, NOSCF, max 1280 units gas; intrb'dd w/Sltst a/a.	3.5 - 6.0
7983-8008'	Ss: a/a, becomes w. ind, nil to poor intgran por, NOSCF; w/Sltst a/a.	6.0 - 9.0
8008-8020'	Ss: a/a, v.f. grn - slty, grds to Sltst: w. ind, nil intgran por, w/some Sh a/a.	9.0 - 11.0

SHOW DESCRIPTION (Gas and/or Oil)

	UNITS	CHROMATOGRAPH (PPM)				
		C ₁	C ₂	C ₃	C ₄	C ₅
7950'	1088	191,000	15,000	9,000	2,000	Tr
7985'	1120	149,000	32,000	20,000	1,600	Tr
7990'	1280	208,000	34,000	22,000	2,000	Tr
7995'	1040	160,000	32,000	14,000	2,000	Tr
8015'	1408	242,000	28,000	10,000	2,000	Tr

Ditch Gas (Units): Background 33-120 Connection 1240 Trip 120 @ 7880' Peaks see above

Mud: Wt. 10.7 Vis 45 W.I. 13.0 ph 9.0 cc Oil 0 % C₁ 19000 Temp 127 °F. in 131 °F. out

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure
7900'	2.64	1.67	10.30
7950'	2.64	1.57	10.24
8000'	2.64	1.52	10.25

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		

Geologist DAVE FENEX



HUSKY OIL NPR OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

Well TONALIX #1 Date 1-21-79 Time 06:00
Present Depth 8135' Previous Depth 8035' Footage 24 Hrs. 100'
Formation(s) TOROK Top 6015'
Present Activity: Drilling

LITHOLOGIC DESCRIPTION

Interval Reported 8020-8120' Sampling Interval 10 ft. Sample Quality good
Lag Time: 160 min. @ 8100 ft.

Interval	Description	Avg. Drill Rate min./ft.
8020-8043'	Predominantly Ss: brn - gy, a/a.	9.0 - 11.0
8043-8075'	Predominantly Sltst: dk brnsh gy, S&P, sdy, v. arg, w. ind.	12.0 - 13.0
8075-8093'	Ss: tn, S&P, v.f. - med grn, occ crs grn, w/some fld grns, w. ind, wh cly cnt, sl calc, nil por, carb inclus, NOSCF.	10.0
8093-8120'	Ss: tn, S&P, v.f. - med grn, occ crs grn, w/some fld grns a/a, mod fri - mod w. ind, wh cly cnt, sl calc, poor intgran por, carb inclus, NOSCF.	3.5 - 6.0

SHOW DESCRIPTION (Gas and/or Oil)

	UNITS	CHROMATOGRAPH (PPM)				
		C ₁	C ₂	C ₃	C ₄	C ₅
8055'	1600	288,000	30,000	12,000	3,000	Tr
8080'	3000	600,000	28,000	10,000	8,000	Tr
8095'	864	147,000	16,000	8,000	2,000	Tr
8115'	650	110,000	13,000	5,000	100	Tr
8120'	640	100,000	18,000	8,000	400	Tr
8110'	560	88,000	16,000	8,000	Tr	Tr

Ditch Gas (Units): Background 520 Connection 2880 @ 8035 Trip none Peaks see above

Mud: Wt. 11.3 Vis 55 W.L. 12 ph. 9.0 cc Oil 0 %Cl₂ 19.000 Temp. 129 °F. in 133 °F. out
Max temp short trip @ 8035': 134°

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure
8000'	2.64	1.52	10.25
8050'	2.64	1.68	10.22
8100'	2.64	1.65	10.14

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)	<u>7700-7860'</u>	<u>1</u>	<u>Box #26</u>
Cores	No.		

Geologist DAVE FENEX



DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 1-22-78 Time 06:00
Present Depth 8151' Previous Depth 8135' Footage Dr. Hrs. 16
Formation(s) TOROK Top 6015'
Present Activity: Drilling

LITHOLOGIC DESCRIPTION

Interval Reported 8120-8130' Sampling Interval 10 ft. Sample Quality good
Lag Time: 160 min. @ 8100 ft.

Interval	Description	Avg. Drill Rate min./ft.
<u>8120-8130'</u>	<u>Ss and Slst a/a.</u>	<u>10.0 - 15.0</u>

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background 560 Connection - Trip 3000+' @ 8138' Peaks -

Mud: Wt. 11.5 Vis. 58 W.L. 15.0 ph. 9.0 cc Oil. tr % Cl₂ 19000 Temp. 120 °F. in 123 °F. out
Max temp on trip 125 °F.

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure
<u>8150'</u>	<u>-</u>	<u>1.61</u>	<u>10.27</u>

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
<u>Washed & Dried Ditch</u>			
<u>Unwashed Ditch (Paleo)</u>	<u>7780-8120'</u>	<u>1</u>	<u>Box #23</u>
<u>Unwashed Ditch (USGS)</u>	<u>7780-8120'</u>	<u>1</u>	<u>Box #23</u>
<u>GeoChem (canned)</u>			
<u>Cores</u>	No.		

Geologist: DAVE FENEX



HUSKY OIL OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY, ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 1-23-79 Time 06:00
Current Depth 3249' Previous Depth 8151' Footage Dr. Hrs. 93'
Formation(s) TOROK Top 6015'
Present Activity: Drilling

LITHOLOGIC DESCRIPTION

Interval Reported 8130-8230' Sampling Interval 10 ft. Sample Quality good
Log Time: 148 min. @ 8200 ft.

Interval	Description	Avg. Drill Rate min./ft.
8130-8170'	Slstst: dk brn, arg a/a and Sh, dk gy - brn, slty, micromica, blkv.	13.5 - 17.0
8170-8230'	Ss: lt gy - brn, S&P, v.f. - f. grn. p. srted, SA-SR, firm, carb inclus, sl calc, nil intgran por, NOSCF w/Sh and Slstst a/a.	10.2 - 12.0

SHOW DESCRIPTION (Gas and/or Oil)

UNITS*	CHROMATOGRAPH (PPM)					
	C ₁	C ₂	C ₃	C ₄	C ₅	
8170'	1980	358,000	22,000	9,000	7,000	Tr
8175'	3000+	600,000	28,000	21,000	12,000	Tr
8180'	2900	520,000	30,000	18,000	12,000	Tr
8200'	2700	498,000	36,000	20,000	10,000	Tr
8215'	2880	510,000	36,000	20,000	10,000	Tr
8220'	2400	418,000	36,000	16,000	10,000	Tr

*In part may represent recirculated gas.

Ditch Gas (Units): Background 1600 Connection 2050 @ 8168' Trip - Peaks see above
3000+ @ 8200'

Mud: Wt. 11.7 Vis. 49 W.L. 12.5 ph. 9.0 cc Oil - %Cl₂ 1900 Temp. 130 °F. in 132 °F. out

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure
8150'	2.61	1.61	10.27
8200'	2.61	NR	10.36

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		



HUSKY OIL & GAS OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY, ONTPRA

DAILY GEOLOGICAL REPORT

Well: TUNALIK #1 Date 1-24-79 Time 06:00
 Present Depth 8301' Previous Depth 8249' Footage 24 Hrs. 52
 Formation(s) TOROK Top 6015'
 Present Activity: Short tripping and cond mud prior to logging

LITHOLOGIC DESCRIPTION

Interval Reported 8230-8300' Sampling Interval 10 ft. Sample Quality good
 Log Time: 151 min. @ 8200 ft.

Interval	Description	Avg. Drill Rate min./ft.
8230-8245'	Slstst: dk gy brn, S&P, v. arg, w. ind, carb inclus.	12.0
8245-8260'	Sh: dk gy - brn, slty, micromica, blk, w. ind, tr Inoceramus prisms, tr pyr.	15.0 - 16.0
8260-8288'	Slstst: med gy - brn, S&P, sdv, carb inclus, w. ind, grds to Ss: v.f. grn, p. srttd, SA-SR, w. ind., carb inclus, nil vis por, NOSCE.	12.0 - 13.0
8288-8300'	Sh: a/a.	15.0 - 15.5
<u>REQUEST</u>		
	1. Core boxes	
	2. North Slope Base Map	
	3. 1 Box pink pearl erasers	
	4. 1 Box 4H pencils	

SHOW DESCRIPTION (Gas and/or Oil)

	UNITS	CHROMATOGRAPH (PPM)				
		C ₁	C ₂	C ₃	C ₄	C ₅
8255-8265'	1380	230,000	26,000	14,000	6,000	Tr
8285-8295'	1500	250,000	28,000	16,000	6,000	Tr

Ditch Gas (Units): Background 500 Connection 1200 @ 8295' Trip - Peaks see above
 12.3 in
 Mud: Wt. 12.1 outs 65 W.L. 13.0 ph 9.0 cc Oil 0 % Cl₂ 20,000 Temp. 130 °F. in 136 °F. out

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure
8200'	2.64+	1.61	10.36
8250'	2.60	1.63	10.62
8300'	2.61	1.58	10.81

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch	7280-8300'	2 Box 9	1 & 2
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		

Geologist DAVE FENEX



HUSKY OIL & GAS OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY, ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 1-25-79 Time 06:00
 Present Depth 8301' Previous Depth 8301' Footage 24 Hrs. 0
 Formation(s) TOROK Top 6015'
 Present Activity: Logging; Schlumberger TD 8302'

LITHOLOGIC DESCRIPTION

Interval Reported _____ Sampling Interval _____ ft. Sample Quality _____
 Lag Time: _____ min. @ _____ ft.

Interval	Description	Avg. Drill Rate min./ft.
	COMPLETED RUNNING: DLL/MSFL/GR/SP 8301-2598'	
	FDC/CNL/GR/CAL 8301-2598'	
	Preliminary review of logs does not indicate significant hydrocarbon-bearing zones.	

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background _____ Connection _____ Short Trip 1350 Peaks _____

Mud: Wt. 12.4 Vis 55 W.L. 13 ph. 9.0 cc Oil Tr %Cl₂ 20,000 Temp. _____ °F. in _____ °F. out

Data Unit:

Depth	Shale Density	De Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		

Geologist DAVE FENEX



HUSKY OIL NPR OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY, ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 1-26-79 Time 06:00

Present Depth 8301' Previous Depth 8301' Footage 24 Hrs. 0

Formation(s) TOROK Top 6015'

Present Activity: Circulate and condition mud for gas.

LITHOLOGIC DESCRIPTION

Interval Reported _____ Sampling Interval _____ ft. Sample Quality _____
Lag Time: _____ min. @ _____ ft.

Interval	Description	Avg. Drill Rate min./ft.
	1st and 2nd run on FDC/CNL were misruns.	
	Ran BHCS/GR - 8294-2958'	
	Started running HDT, well started to flow. Had 40 bbl gain.	

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background 350+ Connection _____ Trip _____ Peaks _____
 12.6 in
 Mud: Wt. 12.2 out_{Vis} 55 W.L. 13.0 ph 9.0 cc Oil tr % Cl₂ 19000 Temp. 98 °F. in 116 °F. out

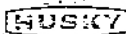
Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
Gas Chem (Canned)			
Cores	No.		

Geologist DAVE FENEX



HUSKY OILFIELD OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 1-27-79 Time 06:00
 Present Depth 8301' Previous Depth 8301' Footage 24 Hrs. 0
 Formation(s) TOROK Top 6015'
 Present Activity: POH w/Sidewalls

LITHOLOGIC DESCRIPTION

Interval Reported _____ Sampling Interval _____ ft. Sample Quality _____
 Lag Time: _____ min. @ _____ ft.

Interval	Description	Avg. Drill Rate min./ft.
	Ran: GR/FDC/CNL 8301-2584'	
	HDT (Dipmeter) 8301-2584'	
	Sidewall Cores: Shot 45 POH w/gun at report time.	

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background _____ Connection _____ Trip _____ Peaks _____

Mud: Wt. 12.6 Vis 55 W.L. 13 ph 9.0 cc Oil _____ % Cl₂ 19000 Temp. _____ °F. in _____ °F. out _____

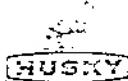
Data Unit:

Depth	Shale Density	De Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
	No. _____		

Geologist DAVE FENEX



HUSKY OIL OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 1/28/79 Time 06:00
Present Depth 8301' Previous Depth 8301' Footage 24 Hrs. 0
Formation(s) TOROK Top 6015'
Present Activity: Circ and cond mud to run 13 3/8" csg.

LITHOLOGIC DESCRIPTION

Interval Reported _____ Sampling Interval _____ ft. Sample Quality _____
Lag Time: _____ min. @ _____ ft.

Interval	Description	Avg. Drill Rate min./ft.
	NOTE: Completed logging run; shot 45 Sidewall Cores, rec 42	

SHOW DESCRIPTION (Gas and/or Oil)

Interval	Description	Avg. Drill Rate min./ft.

Ditch Gas (Units): Background _____ Connection _____ Trip _____ Peaks _____

Mud: Wt _____ Vis _____ W.L. _____ ph _____ cc Oil _____ % Cl₂ _____ Temp. _____ °F. in _____ °F. out

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
Sp. Chem (canned)			
Cuts	No.		

Geologist _____



DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 1/28/79 Time 06:00
 Present Depth 8301' Previous Depth 8301' Footage 24 Hrs. 0
 Formation(s) TOROK Top 6015'
 Present Activity: Running 13 3/8" csg.

LITHOLOGIC DESCRIPTION

Interval Reported _____ Sampling Interval _____ ft. Sample Quality _____
 Lag Time: _____ min. @ _____ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background _____ Connection _____ Trip _____ Peaks _____

Mud: Wt. _____ Vis _____ W.L. _____ ph _____ cc Oil _____ % C1₂ _____ Temp. _____ °F. in _____ °F. out

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
CosChem (canned)			
Notes	No		

Geologist _____



HUSKY OIL NPR OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 1/31/79 Time 06:00
 Present Depth 8301' Previous Depth 8301' Footage 24 Hrs. 0
 Formation(s) TOROK Top 6015'
 Present Activity: Cementing 13 3/8" csg.

LITHOLOGIC DESCRIPTION

Interval Reported _____ Sampling Interval _____ ft. Sample Quality _____
 Log Time: _____ min. @ _____ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)

Drift Gas (Units): Background _____ Connection _____ Trip _____ Peaks _____

Mud: Wt. 12.5 Vis 50 W.I. 14.0 ph 8.5 cc Oil Tr % Cl₂ 19000 Temp. _____ °F. in _____ °F. out

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
	No.		

Geologist _____



DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 2-1-79 Time 06:00
 Present Depth 8301' Previous Depth 8301' Footage 24 Hrs. 0
 Formation(s) TOROK Top 6015' sample
 Present Activity: Waiting on cement

LITHOLOGIC DESCRIPTION

Interval Reported _____ Sampling Interval _____ ft. Sample Quality _____
 Lag Time: _____ min. @ _____ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background _____ Connection _____ Trip _____ Peaks _____

Mud: Wt. 12.4 Vis 48 W.I. 15 ph 8.5 cc Oil Tr % Cl₂ 19000 Temp. _____ °F. in _____ °F. out

Data Unit:

Depth	Shale Density	Dc Exponent	Port Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (anned)			
Notes	No.		

Geologist _____



HUSKY OIL FIELD OPERATIONS, INC.
U.S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 2-2-79 Time 06:00

Present Depth 8301' Previous Depth 8301' Footage 24 Hrs. 0

Formation(s) FOROK Top 6015' sample top

Present Activity: Nippling up 13 3/8" BOP's

LITHOLOGIC DESCRIPTION

Interval Reported _____ Sampling Interval _____ ft. Sample Quality _____
Lag Time: _____ min. @ _____ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background _____ Connection _____ Trip _____ Peaks _____

Mud: Wt. _____ Vis _____ W.L. _____ ph _____ cc Oil _____ % Cl₂ _____ Temp. _____ °F. in _____ °F. out _____

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		



DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 2-3-79 Time 06:00
Present Depth 8301' Previous Depth 8301' Footage 24 Hrs. 0
Formation(s) TOROK Top 6015'
Present Activity: Nipple up BOP.

LITHOLOGIC DESCRIPTION

Interval Reported _____ Sampling Interval _____ ft. Sample Quality _____
Lag Time: _____ min. @ _____ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)

Interval	Description	Avg. Drill Rate min./ft.

Ditch Gas (Units): Background _____ Connection _____ Trip _____ Peaks _____

Mud: Wt 12.4 Vis 48 W.L. 15 ph 8.5 cc Oil Tr % Cl₂ 19000 Temp. _____ °F. in _____ °F. out

Data Unit:

Depth	Shale Density	De Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Notes	No.		

Geologist GORDON LEGG



DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 2-4-79 Time 06:00
 Present Depth 8301' Previous Depth 8301' Footage 24 Hrs. 0
 Formation(s) TOROK Top 6015' (sample)
 Present Activity: Cementing 13 3/8" csg.

LITHOLOGIC DESCRIPTION

Interval Reported _____ Sampling Interval _____ ft. Sample Quality _____
 Lag Time: _____ min. @ _____ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background 900 Connection _____ Trip _____ Peaks _____

Mud: Wt. 12.1 Vis 46 W.L. 15 ph 8.5 cc Oil 0 % Cl₂ 15.000 Temp. _____ °F. in _____ °F. out

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		

Geologist GORDON LEGG



HUSKY OIL & GAS OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 2-5-79 Time 06:00
 Present Depth 8301' Previous Depth 8301' Footage 24 Hrs. 0
 Formation(s) TOROK Top 6015' (sample)
 Present Activity: Cementing 13 3/8" csg.

LITHOLOGIC DESCRIPTION

Interval Reported _____ Sampling Interval _____ ft. Sample Quality _____
 Log Time: _____ min. @ _____ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background _____ Connection _____ Trip _____ Peaks _____

Mud: Wt. 12.1 Vis 46 W.L. 18 ph 10.0 cc Oil 0 % Cl₂ 13000 Temp. _____ °F. in _____ °F. out

Data Unit:

Depth	Shale Density	De Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		

Geologist GORDON LEGG



HUSKY GILNER OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 2-6-79 Time 06:00

Present Depth 8301' Previous Depth 8301' Footage 24 Hrs. 0

Formation(s) TOROK Top 6015' (sample)

Present Activity: Running 2 3/8" tbg inside drill pipe; RTTS tool stuck in hole; lower part of drill pipe filled w/cement.

LITHOLOGIC DESCRIPTION

Interval Reported _____ Sampling Interval _____ ft. Sample Quality _____

Lag Time: _____ min. @ _____ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background _____ Connection _____ Trip _____ Peaks _____

Mud: Wt. 11.4 Vis 39 W.L. 23 ph. 12.0 cc Oil 0 % Cl₂ 11000 Temp. _____ °F. in _____ °F. out _____

Data Unit:

Depth	Shale Density	Dc Exponent	Core Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		

Geologist GORDON LEGG



HUSKY OIL & NATURAL GAS OPERATIONS, INC.
U.S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 2-7-79 Time 06:00
 Present Depth 8301' Previous Depth 8301' Footage 24 Hrs. 0
 Formation(s) TOROK Top 6015' sample
 Present Activity: Wash inside drill pipe at 2080'

LITHOLOGIC DESCRIPTION

Interval Reported _____ Sampling Interval _____ ft. Sample Quality _____
 Lag Time: _____ min. @ _____ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background _____ Connection _____ Trip _____ Peaks _____

Mud: Wt. 11.1 Vis 37 W.L. 24 pH 11.0 cc Oil 0 % C1₂ 10,000 Temp. _____ °F. in _____ °F. out _____

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		



HUSKY OIL FIELD OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY, ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIX #1 Date 2-8-79 Time 06:00
 Present Depth 8301' Previous Depth 8301' Footage 24 Hrs. 0
 Formation(s) TOROK Top 6015'
 Present Activity: Cleaned cement out of drill pipe; lay down tubing.

LITHOLOGIC DESCRIPTION

Interval Reported _____ Sampling Interval _____ ft. Sample Quality _____
 Lag Time: _____ min. @ _____ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background _____ Connection _____ Trip _____ Peaks _____

Mud: Wt. 10.5 Vis. 32 W.L. 30 ph 11.0 cc O₂ 0 % Cl₂ 10,000 Temp. _____ °F. in _____ °F. out _____

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		

Geologist: _____



HUSKY OIL OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 2-9-79 Time 06:00
Present Depth 8301' Previous Depth 8301' Footage 24 Hrs. 0
Formation(s) TOROK Top 6015' sample
Present Activity: Washing and ream cement inside csg @ 2715'; backed off fish; 3 joints above RTTS.

LITHOLOGIC DESCRIPTION

Interval Reported _____ Sampling Interval _____ ft. Sample Quality _____
Lag Time: _____ min. @ _____ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background _____ Connection _____ Trip _____ Peaks _____

Mud: Wt. 10.6 Vis 33 W.L. 30 ph 11.0 cc Oil _____ % Cl₂ 10,000 Temp. _____ °F. in _____ °F. out

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		



DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 2-10-79 Time 06:00

Present Depth 8301' Previous Depth 8301' Footage 24 Hrs. 0

Formation(s) TOROK Top 6015' (sample)

Present Activity: Washing over fish at 2780'

LITHOLOGIC DESCRIPTION

Interval Reported _____ Sampling Interval _____ ft. Sample Quality _____
 Lag Time: _____ min. @ _____ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background _____ Connection _____ Trip _____ Peaks _____

Mud: Wt. _____ Vis _____ W.L. _____ pH _____ cc Oil _____ % Cl₂ _____ Temp. _____ °F. in _____ °F. out _____

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
Geo-Chem (canned)			
Cores	No.		

Geologist _____



HUSKY OIL FIELD OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 2-11-79 Time 06:00
Present Depth 8301' Previous Depth 8301' Footage 24 Hrs. 0
Formation(s) TOROK Top 6015' (sample)
Present Activity: Washing over RTTS at 2850'

LITHOLOGIC DESCRIPTION

Interval Reported _____ Sampling Interval _____ ft. Sample Quality _____
Lag Time: _____ min. @ _____ ft.

Table with 3 columns: Interval, Description, Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)

Table for showing description with multiple empty rows.

Ditch Gas (Units): Background _____ Connection _____ Trip _____ Peaks _____

Mud: Wt. _____ Vis _____ W.L. _____ ph _____ cc Oil _____ % Cl2 _____ Temp. _____ °F. in _____ °F. out

Data Unit:

Table with 4 columns: Depth, Shale Density, De Exponent, Pore Pressure

Dispatched Samples:

Table with 4 columns: Type, Interval, No. of Boxes, Set No.

Geologist _____



HUSKY OIL OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 2-12-79 Time 06:00
Present Depth 8301' Previous Depth 8301' Footage 24 Hrs. 0
Formation(s) TOROK Top 6015' (sample)
Present Activity: Milling on RTTS at 2855'

LITHOLOGIC DESCRIPTION

Interval Reported _____ Sampling Interval _____ ft. Sample Quality _____
Lag Time: _____ min. @ _____ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background _____ Connection _____ Trip _____ Peaks _____

Mud: Wt. 11 Vis 42 W.L. 26 ph 11.0 cc Oil - %Cl₂ 10,000 Temp. _____ °F. in _____ °F. out

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Pzleo)			
Unwashed Ditch (USGS)			
Unchem (canned)			
	No.		

Geologist _____



HUSKY OIL NPR OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/CNPR

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 2-13-79 Time 06:00
 Present Depth 8301' Previous Depth 8301' Footage 24 Hrs. 0
 Formation(s) TOROK Top 6015' (sample)
 Present Activity: RIH w/washover shoe; milled over RTTS to 2855.5'.

LITHOLOGIC DESCRIPTION

Interval Reported _____ Sampling Interval _____ ft. Sample Quality _____
 Lag Time: _____ min. @ _____ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background _____ Connection _____ Trip _____ Peaks _____

Mud: Wt. 10.9 Vis 40 W.I. 24 pH 10.5 cc Oil - % Cl₂ 10,000 Temp. _____ °F. in _____ °F. out

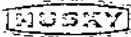
Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		

Geologist: _____



BUSHY OIL AND GAS OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 2-14-79 Time 06:00
 Present Depth 8301' Previous Depth 8301' Footage 24 Hrs. 0
 Formation(s) TOROK Top 6015' (sample)
 Present Activity: Milling RTTS at 2856.28'

LITHOLOGIC DESCRIPTION

Interval Reported _____ Sampling Interval _____ ft. Sample Quality _____
 Lag Time: _____ min. @ _____ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background _____ Connection _____ Trip _____ Peaks _____

Mud: Wt. _____ Vis _____ W.L. _____ ph _____ cc Oil _____ % Cl₂ _____ Temp. _____ °F. in _____ °F. out

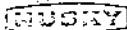
Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
	No.		

Geologist _____



HUSKY OIL OPERATIONS, INC.
 U. S. GEOLOGICAL SURVEY/ONTRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 2-15-79 Time 06:00
 Present Depth 8301' Previous Depth 8301' Footage 24 Hrs. 0
 Formation(s) TORCK Top 6015' (sample)
 Present Activity: Recovered RTTS: Drilling on junk and cmt. at 2861'

LITHOLOGIC DESCRIPTION

Interval Reported _____ Sampling Interval _____ ft. Sample Quality _____
 Log Time: _____ min. @ _____ ft.

Interval	Description	Avg. Drill Rate min./ft.

MUD DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background _____ Connection _____ Trip _____ Peaks _____

Mud: Wt. 10.8 Vis. 43 W.L. 23 ph. 10.5 cc Oil 0 % Cl₂ 10000 Temp. _____ °F. in _____ °F. out

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Sct No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
Geo-Chem (assess)			

Geologist _____



HUSKY OIL NPR OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 2-16-79 Time 06:00
Present Depth 8301' Previous Depth 8301' Footage 24 Hrs. 0
Formation(s) TOROK Top 6015' (sample)
Present Activity: Cleaning out hole.

LITHOLOGIC DESCRIPTION

Interval Reported _____ Sampling Interval _____ ft. Sample Quality _____
Lag Time: _____ min. @ _____ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background _____ Connection _____ Trip _____ Peaks _____

Mud: Wt. 11.3 Vis 48 W.L 26 ph 10.0 cc Oil - % Cl₂ 9000 Temp. _____ °F. in _____ °F. out

Data Unit:

Depth	Slale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		

Geologist _____



HUSKY OIL, NFR OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALIK #1 Date 2-17-79 Time 06:00
 Present Depth 8301' Previous Depth 8301' Footage 24 Hrs. 0
 Formation(s) TOROK Top 6015' (sample)
 Present Activity: Rig up to test FO at 2885'

LITHOLOGIC DESCRIPTION

Interval Reported _____ Sampling Interval _____ ft. Sample Quality _____
 Lag Time: _____ min. @ _____ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background _____ Connection _____ Trip _____ Peaks _____

Mud: Wt. 11.4 Vis 38 W.L. 20 ph 9.0 cc Oil - % Cl₂ 10,000 Temp. _____ °F. in _____ °F. out

Data Unit:

Depth	Shale Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		



HUSKY OIL NPR OPERATIONS, INC.
U. S. GEOLOGICAL SURVEY/ONPRA

DAILY GEOLOGICAL REPORT

WELL TUNALEK #1 Date 2-18-79 Time 06:00
 Present Depth 8301' Previous Depth 8301' Footage 24 Hrs. 0
 Formation(s) TOROK Top 6015' (sample)
 Present Activity: Drilling on shoe at 8298'

LITHOLOGIC DESCRIPTION

Interval Reported _____ Sampling Interval _____ ft. Sample Quality _____
 Lag Time: _____ min. @ _____ ft.

Interval	Description	Avg. Drill Rate min./ft.

SHOW DESCRIPTION (Gas and/or Oil)

Ditch Gas (Units): Background _____ Connection _____ Trip _____ Peaks _____

Mud: Wt. 11.4 Vis 48 W.L. 18 ph 10.5 cc Oil - % Cl₂ 10,000 Temp. _____ °F. in _____ °F. out

Data Unit:

Depth	Shaie Density	Dc Exponent	Pore Pressure

Dispatched Samples:

Type	Interval	No. of Boxes	Set No.
Washed & Dried Ditch			
Unwashed Ditch (Paleo)			
Unwashed Ditch (USGS)			
GeoChem (canned)			
Cores	No.		

Geologist GORDON LEGG