



Husky Oil Company

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October 29, 1979

RECEIVED

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TO: ~~MR. ART BOWSER, USGS-MENLO PARK~~
MR. J. DOWDEN, HUSKY-HOUSTON
MR. W. L. ADKISON, USGS-ANCHORAGE
MR. K. RENFRO, TETRA TECH

ONPRA
MENLO PARK

Enclosed is an updated Well Summary report for Tunalik #1.

SAM HEWITT
GEOLOGY MANAGER

Enclosure

HUSKY

WELL SUMMARY SHEET

WELL NAME AND NO. TUNALIK #1 API 50-301-20001

Location: 2403'N, 1488'W from SE Corner Sec. 20 T 10N R 36W UPM

Date Spudded 11-10-78 Ground Elevation 80'

K.B. Elevation 110' Est.

TD _____ from K.B.

TD _____ Subsea

FORMATION TOPS

<u>Top</u>	<u>Forecast</u>	<u>Sample Top</u>	<u>Paleo Top</u>	<u>Log Top</u>
Nanushuk Gp	<u>150'</u>	<u>+150'</u>		
Torok Fm	<u>6100'</u>	<u>6015'</u>	<u>5950' (F-10)</u>	<u>6243' (?)</u>
"Pebble Shale Unit"	<u>10,700'</u>	<u>10,642'</u>	<u>10,620' (F-12)</u>	<u>10,632'</u>
-Top Pebble Shale Ss		<u>10,905'</u>		<u>10,902'</u>
-Base Pebble Shale Ss				<u>11,460'</u>
Kingak Fm	<u>11,100'</u>	<u>11,665'</u>	<u>13,380' (F-15)</u>	<u>13,380'</u>
Sag River Ss equiv.	<u>14,700'</u>			<u>14,350'</u>
Shublik Fm	USGS Kinsel <u>14,900</u>	<u>14,508'</u>	<u>14,280' (F-19)</u>	<u>14,520'</u>
Sadlerochit Gp	<u>14,900'</u> <u>15,250'</u>	<u>14,820'</u>	<u>14,720' (F-20)</u>	<u>Not logged</u>
-Ivishak Fm	<u>15,250'</u>			
-Kavik Mbr	<u>17,050'</u>			
-Echooka Fm				
Lisburne Gp	<u>17,000'</u> <u>17,650'</u>			
Endicott Gp	<u>18,250'</u>			
Argillite	<u>19,950'</u>			

Updated: 10-26-79

RFT #1: 12,522-12,585', made 8 attempts, no seal, no pressures, no samples recovered.

Summary Cores

Core #	Interval	Footage Cut/Rec/%	Fm	General Lithology
1	3280-3308'	28 / 26 / 93	LK	Sh, Sltst, Ss, intbdd, nil vis por, NOSCF.
2	3820-3830'	10 / 9 / 90	LK	Sh, becoming slty in pt
3	5552-5562'	10 / 9.5 / 95	LK	Sh, w/Ss, v.f. grn, tight
4	6504-6514'	10 / 7.5 / 75	Kt	Sh and Sltst, NOSCF, tight
5	7870-7880	10 / 10 / 100	Kt	Sh dk gy brn, slty
6	8782-8810'	28 / 28 / 100	Kt	Sh, w/irreg turbidite struct of Ss
7	10,472-10,502'	30 / 30 / 100	Kt	Sh, splintery, hd, brittle
8	10,671-10,702'	31 / 31 / 100	Kps	Sh, charcoal gy, organic
9	10,910-10,940'	30 / 30 / 100	KpsSs	Ss, v.f. grn, tight, hd
10	11,672-11,694'	22 / 22 / 100	Jk	Sh, dk gy - blk, slty, w/v. thn intbdd tight Ss
11	12,567-12,597'	30 / 30 / 100	Jk	Sh, dk gy - blk, w/intbdd Ss, tight no show
12	14,846-14,856	10 / 9 / 90	PR i	Sh, blk, slty, w/pyr incls
13	15,508-15,438'	30 / 30 / 100	PR i	Sh, blk, subfis, becomes slty in pt
14	16,236-16,261'	25 / 25 / 100	PR i	Sh, blk, w/inrlam Sltst, 8° dip.
15	16,929-16,959'	30 / 21 / 70	PR e	Sltst, dk gy - blk, qtztc, hd tight, 25° apparent dip.

Summary Wireline Logs

Run #1: (Nov. 11, 1978) DIL/SP/GR 111-503'; BHC/GR 111-501'

Run #2: (Nov. 20, 1978) DIL/SP/GR 520-2630'; BHC/GR 520-2629'

Run #3: (Jan. 24-27, 1979) DLL/MSFL/GR/SP 2584-8301'; FDC/CNL/GR/CAL 2582-8300'; BHC/GR 2584-8294'; HDT 2584-8300', SWC (Shot 45, rec. 42)

Run #4: (May 31-June 1, 1979), DLL/SP/GR 8298-12,374'; BHC/GR 8298-12,384'; FDC/CNL/GR/CAL 8298-12,387'; HRD-Dipmeter 8298-12,387'; Velocity Survey 6500-12,355'; CST Sidewalls 8450-12,374'

Run #5: (June 16-17, 1979) BHC/GR 12,386-12,602'; RFT 12,522-12,585'

Run #6: (July 25-31, 1979) DIL/SP/GR 12,385-14,729'; BHC/GR 12,385-14,650'; FDC/CNL/GR/CAL 12,385-14,710'; HRD-Dipmeter 12,382-14,650'; Velocity Survey 12,505-14,700'; no sidewalls due to adverse hole conditions.

Summary Hydrocarbon Shows:

Torok Fm: 5032-5422', tr-20% bright vel spl fluor, vel crushed cut in v.f. grn, tight Ss intbdd w/shales; 6096-6110' 700 units gas in Ss, fair por, NOSCF, had apparent H₂O flow; 7966-7971' Ss, 4' net, 15% por, 57% Sw (gas and water); 7974-7978' Ss, 4' net, 12% por, 55% Sw (gas and water); 8106-8110', Ss, 4' net, 15% por, 42% Sw (gas) 8110-8113', Ss, 3' net, 9% por, 74% Sw (gas and water)

Pebble Shale unit: 11,440-11,450', Ss, 10% por, Sw 50-55%, NOSCF, pos gas zone; 11,517-11,519', Ss, 12% por, Sw 50-55%, pos gas zone; 12,549-12,557', Ss, v. poor por w/scat blk tarry residue, had gas kick, 1250 units gas before closing hydril, all C₁.

Summary Cores

<u>Core #</u>	<u>Interval</u>	<u>Footage</u> <u>Cut/Rec/%</u>	<u>Fm</u>	<u>General Lithology</u>
<u>16</u>	<u>17,134-17,149'</u>	<u>15 /11.5/ 77</u>	<u>PM1</u>	<u>Ls, gy, v.f. - f. xl, hd, tight, sil</u>
<u>17</u>	<u>17,255-17,286'</u>	<u>31 /28 / 90</u>	<u>PM1(?)</u>	<u>Sh, grdg to Slstst, v. sil, in pt</u> <u>a qtzt</u>
<u>18</u>	<u>17,858-17,888'</u>	<u>30 /30 /100</u>	<u>PM1(?)</u>	<u>Slstst, green, w/Sh frags, tight,</u> <u>hd, dense.</u>

Summary Wireline LogsSummary Hydrocarbon Shows:

Summary Casing Run: 30" @ 516', 20" @ 2584',
13 3/8" @ 8298', 9 5/8" @ 12,385', 7 5/8" liner 12,029-14,719'.