516 E. 18TH STREET, BAKERSFIELD, CALIFORNIA 93305 · 805/324-4915

CORE LABORATORIES, INC.

April 19, 1979

USGS/ Husky Oil Company, Opr.
2525 "C" Street
Anchorage, AK 99503

Attention: Mr. Sam Hewitt

Subject: Core-Analysis Data
Ikpikpuk #1 Well
Wildcat Field
North Slope, Alaska

Gentlemen:

Diamond core equipment and water base drilling fluid were used in extracting core from the subject well. These cores were submitted to our Anchorage, Alaska laboratory for permeability, Boyle's Law porosity, and grain density determinations. The results of these analyses are presented in the accompanying report.

A percussion type sidewall core sample was also analyzed, and these data follow the conventional data.

Also included is a core gamma correlation log taken of the entire cored interval.

We sincerely appreciate this opportunity to serve you and hope these data prove beneficial in the development of this reservoir.

Very truly yours,

CORE LABORATORIES, INC.

James A. Cusator

James A. Cusator
District Manager
California Professional Engineer
P-1176

Enclosures
JAC:smc

PRELIMINARY COPY

CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

Company USGS/HUSKY OIL COMPANY,OPR. Formation _____ Page 1 of _____

Well IKPIKPUK NO. 1 Cores DIAMOND File BP-3-510

Field WILDCAT Drilling Fluid WBM Date Report 3/5/79

County NORTH SLOPE State ALASKA Elevation _____ Analysts WSP,SP

Location _____ Remarks BOYLES LAW POROSITY

CORE ANALYSIS RESULTS

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(Figures in parentheses refer to footnote remarks)

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS			POROSITY PERCENT	GRAIN DENSITY	RESIDUAL SATURATION		REMARKS
		Horizontal Maximum	Horizontal 90°	Vertical			Oil % Pore	Total Water % Pore	
1	10619	0.8			17.2	2.67			ss,vfg,slty
2	10621	4.6			17.4	2.68			same
3	10623	9.8			19.5	2.66			same
4	10625	5.6			18.7	2.69			same
5	10627	5.2			18.7	2.68			same
6	10629	5.3			19.4	2.66			same
7	10631	1.0			15.0	2.70			ss,vfg,sc pyr
8	10633	0.0			6.8	2.80			same
9	10635	0.0			6.0	2.70			ss,vfg,shly,sc pyr
10	10637	0.0			7.0	2.80			same
11	10639	0.4			8.7	2.72			same
12	10641	0.6			13.7	2.70			ss,vfg,slty
13	10643	0.0			8.0	2.82			ss,vfg, slty,shly,sc pyr
14	10645	0.0			4.2	2.86			same
15	10647	1.4			16.9	2.70			ss,vfg,slty
16	10649	0.8			13.8	2.67			same
17	10815	0.8			13.8	2.68			ss,vf-fg,slty
18	10817	5.3			11.4	2.68			same
19	10819	0.4			10.0	2.67			same
20	10821	1.0			8.9	2.74			same
21	10823	8.5			12.4	2.67			same
22	10825	0.1			6.5	2.67			same
23	10827	20			14.4	2.68			ss,vf-fg,slty
24	10829	4.2			10.4	2.67			same
25	10831	0.1			5.4	2.70			ss,vfg,slty
26	10833	0.2			5.9	2.68			same
27	10835	0.3			7.9	2.67			ss,vf-fg,slty
28	10837	0.3			6.5	2.69			ss,vf-fg,cly & slts peb
29	10839	0.2			6.3	2.78			same,sc pyr
30	10841	0.3			8.0	2.67			ss,vfg,slty

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc., and its officers and employees, assume no responsibility and make no warranty or representations, as to the productivity, proper operation, or profitableness of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

Comp. USGS/HUSKY OIL COMPANY, OPR. Formation _____ Page 1 of _____

Well IKPIKPUK NO. 1 Cores SWC File BP-3-510

Field WILDCAT Drilling Fluid WBP Date Report 3/5/79

County NORTH SLOPE State ALASKA Elevation _____ Analysts WSP, KR

Location _____ Remarks BOYLES LAW POROSITY

CORE ANALYSIS RESULTS

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(Figures in parentheses refer to footnote remarks)

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS			POROSITY PERCENT	GRAIN DENSITY	RESIDUAL SATURATION		REMARKS
		Horizontal Maximum	Horizontal 90°	Vertical			Oil % Pore	Total Water % Pore	
	12994	13			22.4	2.66			ss,vfg,slty

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CORE LABORATORIES, INC. CORE LAB *Petroleum Reservoir Engineering*

COMPANY USGS/BUSKY OIL COMPANY, OPR FIELD WILDCAT FILE BP-3-510

WELL IKPIKPUK NO. 1 COUNTY NORTH SLOPE DATE 4/10/79

LOCATION STATE ALASKA ELEV.

CORE-GAMMA CORRELATION

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VERTICAL SCALE: 5" = 100'

CORE-GAMMA SURFACE LOG

(PATENT APPLIED FOR)

GAMMA RAY

RADIATION INCREASE →

COREGRAPH

TOTAL WATER

PERCENT TOTAL WATER

80 60 40 20 0

PERMEABILITY

MILLIDARCYS

100 50 10 5 1

POROSITY

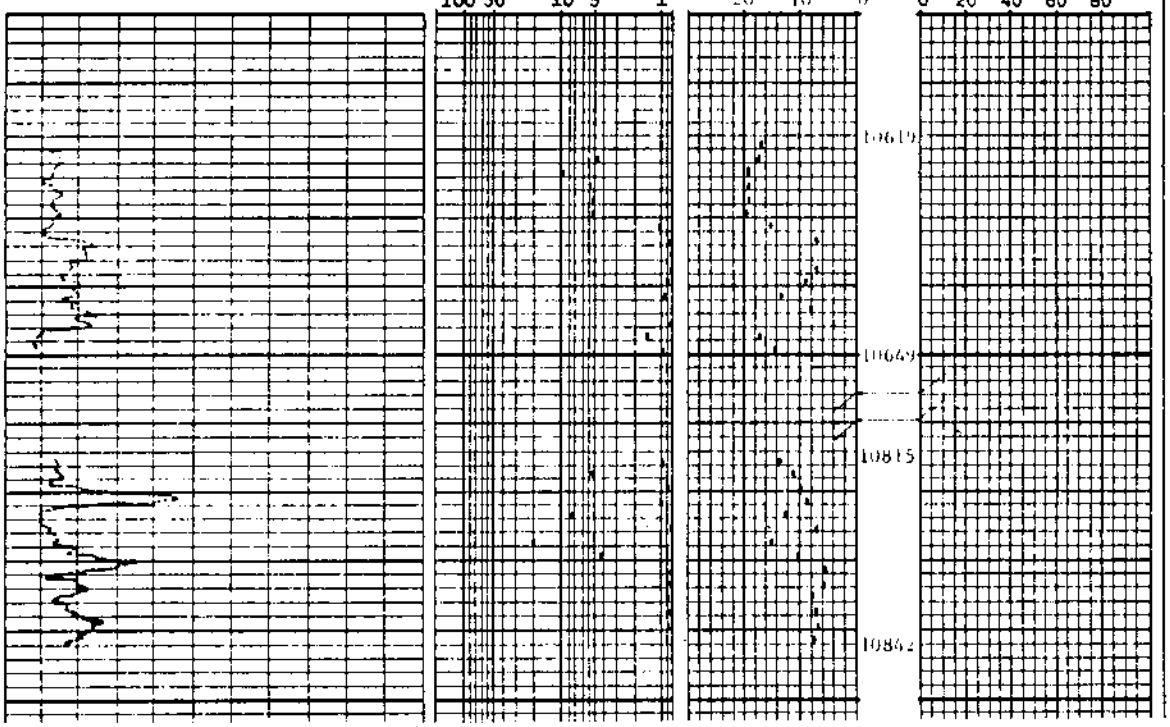
PERCENT

20 10 0

OIL SATURATION

PERCENT PORE SPACE

0 20 40 60 80



CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

Company USGS/HUSKY OIL COMPANY, OPR Formation ____ Page 1 of ____
Well IKPIKPUK #1 Cores DIAMOND File BP-3-531
Field WILDCAT Drilling Fluid WBM Date Report JUNE 6, 1979
County NORTH SLOPE State ALASKA Elevation ____ Analysts WSP
Location ____ Remarks PERM & BOYLES LAW POROSITY

CORE ANALYSIS RESULTS

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(Figures in parentheses refer to footnote remarks)

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS			POROSITY PERCENT ✓	GRAIN DENSITY	RESIDUAL SATURATION		REMARKS
		Horizontal Maximum	Horizontal 90°	Vertical			Oil % Pore	Total Water % Pore	
	7135	0.8			4.8	2.70			sltst,sdy
	7136	0.0			4.5	2.69			same
	7139	0.1			11.3	2.69			ss,vfg,v slty
	7140	0.1			8.4	2.69			same
	7141	0.1			12.7	2.69			same
	7142	0.0			12.9	2.69			same

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

Company USGS/HUSKY OIL COMPANY, OPR. Formation _____ Page 1 of 1
Well IKPIKPUK NO. 1 Cores SIDEWALL File BP-3-506
Field WILDCAT Drilling Fluid WBM Date Report 2/11/79
County NORTH SLOPE State ALASKA Elevation _____ Analysts WSP
Location _____ Remarks BOYLES LAW POROSITY

CORE ANALYSIS RESULTS

(Figures in parentheses refer to footnote remarks)

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS			POROSITY PERCENT	GRAIN DENSITY	RESIDUAL SATURATION		REMARKS
		Horizontal Maximum	Horizontal 90°	Vertical			Oil % Pore	Total Water % Pore	
	PEBBLE SHALE - S.S.								
1	7466	37			20.5				SS, VFG, V CLY

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