

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

CORE ANALYSIS REPORT

FOR

U.S.G.S./HUSKY OIL CO., OPR.

**SOUTH BARROW NO. 18
SOUTH BARROW
NORTH SLOPE, ALASKA**

NOTE
OCT 20 1980
POWERS

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 operations, or profitability 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

U.S.G.S./HUSKY OIL CO., OPR.
 SOUTH BARROW NO, 18
 SOUTH BARROW
 NORTH SLOPE, ALASKA

DATE : 13-OCT-80
 FORMATION :
 DRLG, FLUID: WBM
 LOCATION :

FILE NO : BP-3-617
 ANALYSTS : WSP, TLB
 LABORATORY: ANCHORAGE

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	MAXIMUM PERMEABILITY 90 DEG	VERTICAL	POR %	GRAIN DEN.	FLUID OIL	SATS. WTR.	DESCRIPTION
core #4								
1	1990.0	3.17		16.6	2.66	4.6	68.2	ss/vf-fer clay
2	1991.0	3.79		13.3	2.68	4.2	70.4	same
3	1992.0	115.		19.9	2.66	6.0	72.4	same
4	1993.0			18.3	2.66	4.4	68.0	same *sum. fluid analysis*
5	1994.0			15.4	2.62	5.3	69.6	same *sum. fluid analysis*
6	1995.0			17.5	2.65	5.7	71.6	same *sum. fluid analysis*
7	1996.0			17.5	2.61	5.9	69.0	same *sum. fluid analysis*
8	1997.0	0.07		9.6	2.68	5.0	62.7	same
9	1998.0			21.5	2.66	3.6	65.5	same *sum. fluid analysis*
10	1999.0	0.68		12.1	2.69	8.7	59.5	same
11	2000.0	91.		22.1	2.64	3.4	71.2	ss/vf-mer clay
12	2001.0			16.9	2.65	4.2	54.3	ss/vf-fer clay *sample failure*
13	2002.0	1.33		14.8	2.65	6.5	67.2	same
14	2003.0	111.		20.2	2.65	4.5	51.2	ss/vf-mer clay
15	2004.0	0.41		12.2	2.67	8.2	46.6	ss/vf-fer clay
16	2005.0	14.		16.9	2.64	11.5	65.6	same
17	2006.0			19.3	2.63	6.9	53.1	same
18	2007.0	70.		20.8	2.64	4.9	37.2	ss/vf-fer clay
19	2008.0	13.		17.1	2.64	9.0	22.4	same *sum. fluid analysis*
20	2009.0	10.		16.4	2.65	9.4	51.8	same
21	2010.0	1.05		13.6	2.66	10.8	53.9	same
22	2011.0	27.		19.2	2.62	9.4	58.5	same
23	2012.0	8.17		16.7	2.64	11.5	50.9	same
24	2013.0	6.27		16.9	2.65	11.0	53.6	same

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 operations, or profitability 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

U.S.G.8./HUSKY OIL CO., OPR. DATE 13-OCT-80
 SOUTH BARRROW NO. 18 FORMATION 1

FILE NO 1 BP-3-617
 ANALYSTS 1 WSP, TLB

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY (MD) MAXIMUM 90 DEG VERTICAL	POR %	GRAIN DEN.	FLUID OIL SATS. WTR	DESCRIPTION
25	2014.0		18.1	2.64	11.2	same *sum, fluid analysisk
26	2015.0	20.	17.5	2.64	13.7	same
27	2016.0	11.	17.6	2.65	8.6	same
28	2017.0		18.7	2.64	10.7	same *sum, fluid analysisk
29	2018.0	2.64	15.6	2.64	9.9	same
core #5						
30	2051.0	369.	22.1	2.65	8.0	same *sum, fluid analysisk
31	2052.0	207.	21.0	2.69	8.8	same
32	2053.0	2421.	27.0	2.62	15.9	same
33	2054.0	297.	18.1	2.73	11.8	same *sum, fluid analysisk
34	2055.0	78.	12.4	3.00	12.4	same *sum, fluid analysisk
35	2056.0	309.	21.5	2.64	9.1	same *sum, fluid analysisk
36	2057.0	38.	11.3	2.93	10.0	same *sum, fluid analysisk
37	2058.0	1678.	25.2	2.66	10.6	same *sum, fluid analysisk
38	2059.0	2627.	26.6	2.63	9.3	same *sum, fluid analysisk
39	2060.0	754.	22.4	2.67	12.8	same *sum, fluid analysisk
40	2061.0	54.	22.4	2.66	15.1	same *sum, fluid analysisk
41	2062.0	392.	13.1	2.90	12.6	same *sum, fluid analysisk
42	2063.0	1036.	21.7	2.68	9.9	same *sum, fluid analysisk
43	2064.0	63.	24.7	2.65	8.1	same *sum, fluid analysisk
44	2065.0		19.9	2.66	15.3	same *sum, fluid analysisk
45	2066.0		14.2	2.82	16.0	same *sum, fluid analysisk
core #6						
46	2072.0	8.70	16.2	2.70	11.8	same *sum, fluid analysisk

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 operations, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

U.S.G.S./HUSKY OIL CO., DPR.
 SOUTH BARROW NO. 18

DATE 13-OCT-80
 FORMATION 1

FILE NO BP-3-617
 ANALYSTS WSP, TLS

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY 90 DEG	VERTICAL	POR %	GRAIN DEN.	FLUID OIL	SATS. WTR.	DESCRIPTION
47	2073.0	6.83		16.2	2.68	8.0	58.9	same
48	2074.0	5.96		15.1	2.70	8.7	83.6	same
49	2075.0	40.		17.9	2.68	14.7	69.2	same
50	2076.0	19.		17.9	2.68	9.3	62.5	same
51	2077.0	1.90		14.4	2.71	9.8	61.8	same
52	2078.0	0.20		9.9	2.65	9.0	57.8	same
53	2079.0	2.08		14.2	2.64	6.7	75.1	same
54	2080.0	1.56		10.4	2.67	8.4	78.7	same
55	2081.0	0.54		11.3	2.67	9.8	74.4	same
56	2082.0	0.87		12.5	2.65	8.0	77.4	same
57	2083.0	0.14		9.5	2.67	6.6	76.5	same
58	2084.0	0.63		13.0	2.65	11.6	73.4	same
59	2085.0	1.96		13.3	2.65	8.0	75.0	same

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 operations, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.