

Inr. _____ Date _____

0847 *of* 4/2-75

CORE ANALYSIS RESULTS

REGISTRERT
STATENS OLJEDIREKTORAT

5. FEB. 1975

Company MOBIL EXPLORATION NORWAY

Formation _____

File SCA 100

Well No. 33/9-3 Salt *R14 R11*

Core Type _____

Date Report DECEMBER 1974

Field _____

Drilling Fluid _____

Analysts GXW

County OFFSHORE

State NORWAY

Elev. _____

Location _____

Lithological Abbreviations

SAND - SD SHALE - SH LIMB - LM DOLOMITE - DOL CHERT - CH GYPSUM - GYP ANHYDRITE - ANHY CONGLOMERATE - CONG FOSSILIFEROUS - FOSB SANDY - SDY SHALY - SHY LIMY - LMY FINE - FFI MEDIUM - MED COARSE - CSE CRYSTALLINE - XLM GRAIN - GRN GRANULAR - GRNL BROWN - BRN GRAY - GRV VUGGY - VUG FRACTURED - FRAC LAMINATION - LAM STYLOLITIC - STY SLIGHTLY - SL/ VERY - V/ WITH - W/

Depth Feet	Horizontal Permeability Millidarcys		Vertical Permeability Millidarcys		Helium Porosity %	% Porosity by Fluid Summation	Residual Saturation % Pore		Grain Density	Sample Description and Remarks
	Ka	Kl	Ka	Kl			Oil	Total Water		
CORE NO. 1										
7941	605	575	514	484	30.8	31.2	15.4	36.2	2.70	Ss, lt gy-brn, mg, trnsl to op, subang, p sph, f std, fri, non calc.
7942	N. P. P.		N. P. P.			32.8	21.0	29.0		-
7943 -) 7954)	NO ANALYSIS - UNCONSOLIDATED SAND									
7955	6.1	4.5	2.6	1.8	24.3	26.2	30.9	20.6	2.70	Ss, lt gy-brn, f-mg, wh sub trnsl, sme red, subang, f std, slty mx, mod hd, non calc.
7956 -) 7960)	NO ANALYSIS - UNCONSOLIDATED SAND									
CORE NO. 2										
8001	NO ANALYSIS - UNCONSOLIDATED SAND									
8002	1662	1612	522	492	32.0	36.3	21.2	28.4	2.70	Ss, lt gy-brn, fg, trnsl, gd std, dissem py, mica, fri, non calc.
8003	N. P. P.		N. P. P.			27.3	29.7	27.1		-
8004) 8005)	NO ANALYSIS - UNCONSOLIDATED SAND									

Upper sst mb.

Upper sst mb. Brack Fin

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Petroleum Reservoir Engineering
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CORE ANALYSIS RESULTS

Depth Feet	Horizontal Permeability Millidarcys		Vertical Permeability Millidarcys		Helium Porosity %	% Porosity by Fluid Summation	Residual Saturation % Pore		Grain Density	Sample Description and Remarks
	Ka	Kl	Ka	Kl			Oil	Total Water		
<u>CORE NO. 3</u>										
8012	N. P. P.		N. P. P.							Ss, lt gy-brn, fg, trnsl, gd std, v mica (muscov + biot), fri, non calc.
8013 -) 8027)	NO ANALYSIS - UNCONSOLIDATED SAND									
8028	N. P. P.		N. P. P.			30.2	20.2	29.1		-
8029 -) 8030)	NO ANALYSIS - UNCONSOLIDATED SAND									
8031	193	173	107	95	29.8	35.5	25.4	30.0	2.70	Ss, lt gy-brn, vf-fg, trnsl, mod std, v mica, (muscov + biot), fri, non calc.
8032 -) 8043)	NO ANALYSIS - UNCONSOLIDATED SAND									
8044	N. P. P.		N. P. P.			32.5	19.1	17.5		-
8045 -) 8048)	NO ANALYSIS - SHALE									
<u>CORE NO. 4</u>										
8051	1.6	1.1	0.71	0.47	17.9	24.3	22.2	47.7	2.70	Sltst, med gy, frm, argil, mica, diss, py, sme sdy + slty lams + lenticles.
8052	0.11	0.07	0.03	0.01	14.6	19.7	21.8	65.5	2.65	AA
8053	0.89	0.60	0.13	0.08	15.9	20.6	16.5	58.3	2.67	AA
8054	0.85	0.57	0.07	0.04	19.7	19.1	24.6	69.1	2.70	Ss, lt gy, vfg, slty, lig + coal lams.
8055	0.23	0.14	0.05	0.02	16.2	18.6	33.3	54.3	2.70	Sltst, med gy, frm, argil, mica carb, lam, non calc.

Upper Sst ml. Brent

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CORE ANALYSIS RESULTS

Depth Feet	Horizontal Permeability Millidarcys		Vertical Permeability Millidarcys		Helium Porosity %	% Porosity by Fluid Summation	Residual Saturation % Pore		Grain Density	Sample Description and Remarks
	Ka	Kl	Ka	Kl			Oil	Total Water		
CORE NO. 4 (CONTINUED)										
8056	0.20	0.12	0.03	0.02	14.0	20.1	11.4	81.6	2.70	Sh, dk gy, slty, lamin, py, carb, vuggy, non calc.
8057	0.02	0.01	0.02	0.01	8.0	11.2	20.5	74.1	2.69	Slstst, med gy, arg, hd, py, sl mica, calc.
8058	N. P. P.		N. P. P.			25.4	19.7	50.4		-
8059	N. P. P.		N. P. P.			19.4	12.4	79.9		-
8060	1005	955	721	681	27.0	24.2	14.9	50.0	2.72	Ss, lt gy-brn, mg, sub trnsl, subrnd subang, w std, lig mica, fri, non calc.
8061	891	851	822	782	29.0	27.3	24.5	41.8	2.70	AA
8062	699	669	535	505	28.0	27.7	16.6	49.1	2.69	AA
8063	668	638	647	617	27.3	27.8	18.0	48.9	2.69	AA <i>Upper</i>
8064	995	955	950	910	29.0	31.6	23.4	41.1	2.67	AA <i>ssl mb.</i>
8065	931	891	734	694	30.1	30.9	18.1	41.7	2.70	AA <i>Break</i>
8066	1020	970	535	505	30.1	26.6	18.8	46.6	2.70	AA
8067	934	894	460	430	30.0	27.3	13.9	45.8	2.70	AA
8068	1946	1886	1191	1141	32.3	33.2	21.4	40.7	2.69	AA
8069	3515	3453	2261	2201	32.8	37.2	19.9	43.3	2.70	AA
8070	4027	3947	3145	3065	32.1	34.6	17.1	39.9	2.69	AA
8071	4177	4097	3183	3103	32.8	31.8	21.1	41.8	2.68	AA
8072	1816	1756	1706	1646	32.5	37.0	16.2	34.1	2.67	Ss, lt gy-brn, f-mg, sub trnsl, subrnd - subang, w std, lig, mica, fri, non calc.
8073	N. P. P.		2315	2235	32.0	32.3	16.4	38.7	2.69	AA
8074	4400	4320	4089	4009	33.0	32.6	22.7	35.0	2.69	AA
8075	4557	4457	4412	4332	34.4	31.5	16.5	54.0	2.70	AA

Base upper ssl. mb.

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CORE ANALYSIS RESULTS

Depth Feet	Horizontal Permeability Millidarcys		Vertical Permeability Millidarcys		Helium Porosity %	% Porosity by Fluid Summation	Residual Saturation % Pore		Grain Density	Sample Description and Remarks
	Ka	Kl	Ka	Kl			Oil	Total Water		
CORE NO. 4 (CONTINUED)										
<i>Sst and shale mb. slat.</i>										
8076	112	100	2.7	1.9	26.9	30.3	25.1	38.0	2.69	Ss, lt-med gy, vf-fg, clr-trnsl, subrnd - subang, v thin slty lam, py, mica, non calc.
8077	21	17	4.7	3.5	24.9	27.6	18.8	39.1	2.71	AA
8078	17	14	2.7	1.9	24.0	25.4	22.0	38.6	2.67	AA
8079	0.22	0.13	0.20	0.12	22.8	26.6	25.9	35.3	2.69	AA
8080	0.89	0.60	0.20	0.12	20.9	16.7	29.9	50.9	2.69	AA
8081	0.01	<0.01	0.02	0.01	16.6	18.9	37.0	40.7	2.74	AA, calc.
8082	SHALE - NO ANALYSIS									
8083	0.01	<0.01	0.03	0.02	20.2	24.4	39.3	37.7	2.72	AA, non calc.
8084	22	18	3.5	2.6	22.9	29.9	20.1	52.2	2.66	Ss, lt gy/lt brn, f-mg, clr-trnsl, subrnd - subang, sl slty mx, slty lams, non calc.
8085	9.9	7.7	6.7	5.1	21.0	18.5	27.0	57.8	2.66	AA
8086	N. P. P.		N. P. P.			16.6	3.6	81.9		Sltst, med gy, thinly lam, v mica, lig, non calc.
8087	638	608	89	78	31.8	24.6	19.9	43.9	2.70	Ss, lt brn, mg, sub trnsl, fst, subrnd - subang, low sph, f/w std, mica, tr lig, fri, non calc.
8088	4449	4369	632	602	26.2	28.1	25.3	33.8	2.68	AA, w std.
8089	4143	4063	3116	3036	30.0	33.0	22.4	30.9	2.67	AA, w std.
8090	568	538	402	372	34.0	36.2	14.1	30.9	2.69	AA, trnsl - sub trnsl, w std.
8091	39	33	5.7	4.3	25.1	25.4	21.3	41.3	2.72	Ss, med gy, f-mg, clr-trnsl, subrnd - subang, v py, slty patches, non calc.

348.1

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CORE ANALYSIS RESULTS

Depth Feet	Horizontal Permeability Millidarcys		Vertical Permeability Millidarcys		Helium Porosity %	% Porosity by Fluid Summation	Residual Saturation % Pore		Grain Density	Sample Description and Remarks
	Ka	Kl	Ka	Kl			Oil	Total Water		
ORE NO. 4 (CONTINUED)										
3092	N. P. P.		N. P. P.			20.9	28.7	52.2		Sltst, lt gy, thinly lam, mica, carb strks, py, sdy lenticles, non calc.
3093	N. P. P.		N. P. P.			22.8	26.8	50.0		AA
3094	N. P. P.		N. P. P.			26.6	18.0	53.4		AA
3095	23	19	2.4	1.8	27.9	31.3	21.4	35.5	2.69	Ss, lt brn/lt gy, fg, clr-trnsl, subang, mica, thin arg, slty carb lams, non calc.
3096	0.01	<0.01	0.01	<0.01	16.8	18.8	11.2	79.8	2.66	Sltst, med gy, w sdy (vfg), lam, mica, sdy, py, non calc.
3097)	SHALE - NO ANALYSIS									
3098)										
3099	568	538	236	216	26.4	33.5	19.1	47.5	2.66	Ss, lt brn, fg, trnsl - sub trnsl, subrnd - subang, mica, lig, non calc.
8100	1190	1140	1182	1132	29.5	31.2	9.9	49.0	2.68	AA, w/many lig strks + lams.
8101	N. P. P.		N. P. P.			20.8	14.9	78.8		-
8102	SHALE - NO ANALYSIS									
8103	183	163	20	16	28.6	30.2	22.2	42.4	2.66	Ss, lt brn/lt gy, fg, clr-trnsl, subang, v mica, (muscov + sme biot), carb strks + lams, py, non calc.
8104)	NO ANALYSIS - UNCONSOLIDATED SAND									
8105)										

4773

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CORE ANALYSIS RESULTS

Depth Feet	Horizontal Permeability Millidarcys		Vertical Permeability Millidarcys		Helium Porosity %	% Porosity by Fluid Summation	Residual Saturation % Pore		Grain Density	Sample Description and Remarks
	Ka	Kl	Ka	Kl			Oil	Total Water		
<u>CORE NO. 4 (CONTINUED)</u>										
8106	98	87	4.0	3.0	26.1	32.4	21.6	38.3	2.68	Ss, lt brn/lt gy, fg, clr-trnsl, subang, v mica, (muscov + sme biot), carb strks + lams, py, non calc.
8107	N. P. P.		16	13	28.2	29.7	30.6	41.8	2.68	AA
8108	NO ANALYSIS - UNCONSOLIDATED SAND									
8109	209	189	5.3	4.0	27.9	29.5	17.6	33.9	2.65	AA
<u>CORE NO. 5</u>										
8110	N. P. P.		N. P. P.			24.6	23.2	45.1		Ss, lt gy, ext fg, mica, carb strks, tr py.
8111	95	84	0.07	0.04	22.8	23.7	27.8	45.1	2.70	Ss, lt brn/lt gy, fg, clr-trnsl, subang, v mica, (muscov + sme biot), carb strks + lams, py, non calc.
8112	N. P. P.		25	20	24.0	24.1	23.8	57.1	2.70	Ss, lt brn, vfg, v mica, carb lams, fri, non calc.
8113	957	917	50	42	28.6	32.5	21.2	33.8	2.71	Ss, lt brn/lt gy, f-mg, clr, subang - subrnd, mica, slty carb lams, non calc.
8114	NO ANALYSIS - UNCONSOLIDATED SAND									
8115	N. P. P.		N. P. P.			21.8	24.8	59.2		-
8116	N. P. P.		N. P. P.			25.7	27.2	40.9		-

634.9

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CORE ANALYSIS RESULTS

Depth Feet	Horizontal Permeability Millidarcys		Vertical Permeability Millidarcys		Helium Porosity %	% Porosity by Fluid Summation	Residual Saturation % Pore		Grain Density	Sample Description and Remarks
	Ka	Kl	Ka	Kl			Oil	Total Water		
CORE NO. 5 (CONTINUED)										
8117	5.0	3.7	0.74	0.49	19.1	23.8	25.2	49.2	2.66	Ss, lt brn/lt gy, fg, clr-trnsl, subang - subrd, mica, slty, carb lams, non calc.
8118	0.72	0.48	0.05	0.03	18.1	24.2	22.3	48.8	2.67	-
8119	N. P. P.		N. P. P.			22.3	19.7	44.8		-
8120	2.4	1.7	0.05	0.03	19.1	21.7	24.9	47.0	2.70	AA, but non carb.
8121	43	36	1.1	0.8	27.3	23.6	17.8	53.8	2.70	Ss, lt brn/lt gy, f-mg, clr-trnsl, subang, mica, lig bands, non calc.
8122	3198	3118	426	396	33.1	31.1	17.4	36.0	2.70	Ss, lt brn, fg, clr, subang, mica, carb stks, non calc.
8123	26	22	0.48	0.31	24.7	30.4	18.8	41.1	2.71	AA
8124	128	115	6.6	5.0	25.3	29.3	17.4	40.3	2.70	AA
8125	653	623	72	63	32.7	27.5	27.3	43.3	2.66	Ss, lt brn, fg, clr, subang, gd std, clean, tr carb.
8126	N. P. P.		N. P. P.			26.7	21.3	46.8		-
8127	10.7	8.3	2.9	2.1	24.3	25.0	13.6	48.8	2.69	Ss, lt gy, vfg, mica, carb stks, non calc.
8128)	NO ANALYSIS - SHALE									
8129)										
8130	N. P. P.		72	63	30.0	32.6	19.9	41.1	2.69	-
8131	8.9	6.9	0.75	0.50	24.0	27.7	30.0	37.9	2.70	-
8132	11.7	9.7	0.34	0.21	24.0	24.7	32.0	34.0	2.69	Sltst, lt gy, v thin lams, v mica lig, non calc.
8133 -)	NO ANALYSIS - SHALE									
8135)										

936.6

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CORE ANALYSIS RESULTS

Depth Feet	Horizontal Permeability Millidarcys		Vertical Permeability Millidarcys		Helium Porosity %	% Porosity by Fluid Summation	Residual Saturation % Pore		Grain Density	Sample Description and Remarks
	Ka	Kl	Ka	Kl			Oil	Total Water		
CORE NO. 6										
8164) 8165)	NO ANALYSIS - SHALE									
8166	6.0	4.5	0.33	0.21	16.5	18.3	18.0	66.1	2.67	Ss, lt gy/lt brn, vfg, mica, tr carb, non calc.
8167	21	17	17	13	23.1	22.2	23.9	44.6	2.70	AA
8168	0.72	0.48	0.48	0.31	25.5	24.3	26.3	41.6	2.67	Ss, lt gy/lt brn, vfg, mica, tr py, non calc.
8169	2456	2376	2547	2467	32.4	26.5	20.0	45.7	2.70	Ss, lt brn, f-mg, clr-trnsl, subang, clean, sl fri, non calc.
8170	1860	1800	1816	1756	30.1	28.6	15.4	35.0	2.69	Ss, lt brn/lt gy, fg, clr-trnsl, subang, clean, sl fri, non calc.
8171	1700	1640	769	729	32.3	35.6	19.7	36.8	2.70	AA
8172	524	494	115	102	30.0	31.7	21.1	40.1	2.65	Ss, lt brn/lt gy, vf-fg, clr-trnsl, subang, carb stks, mica, non calc.
8173	1302	1252	85	75	26.0	22.0	21.4	51.8	2.71	AA, w/diss py.
8174	0.88	0.59	N. P. P.		19.0	23.2	24.6	46.1	2.65	Sltst, lt gy, w ext thin arg, carb lams, mica, tr py.
8175	1.0	0.68	0.07	0.04	18.7	21.7	13.8	57.6	2.68	AA
8176	0.49	0.32	0.03	0.02	8.0	5.6	0	69.6	2.72	AA
8177	0.18	0.11	0.04	0.02	18.5	21.1	16.6	68.2	2.71	AA
8178	0.16	0.10	0.04	0.02	17.1	18.8	14.9	71.3	2.72	AA, sl sdy.
8179	0.11	0.07	0.02	0.01	16.2	19.5	13.3	75.9	2.72	AA, vug + sdy.
8180) 8181)	NO ANALYSIS - SHALE									
8182	0.32	0.20	0.02	0.01	18.0	21.8	17.4	60.1	2.74	AA, sl vug.

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CORE ANALYSIS RESULTS

Depth Feet	Horizontal Permeability Millidarcys		Vertical Permeability Millidarcys		Helium Porosity %	% Porosity by Fluid Summation	Residual Saturation % Pore		Grain Density	Sample Description and Remarks
	Ka	Kl	Ka	Kl			Oil	Total Water		
CORE NO. 6 (CONTINUED)										
8183 -) 8185)	NO ANALYSIS - SHALE									
8186	36	30	0.82	0.55	27.9	26.5	32.5	35.5	2.71	Ss, lt brn/lt gy, vfg, clr-trnsl, mica, carb lams, non calc.
8187 -) 8196)	NO ANALYSIS - SHALE									
8197	1.1	0.8	0.07	0.04	17.4	21.3	11.7	77.0	2.68	Sltst, lt gy, mica, carb stks, sdy.
8198 -) 8203)	NO ANALYSIS - SHALE									
8204 -) 8206)	NO ANALYSIS - UNCONSOLIDATED SAND									
√8207	2463	2383	1925	1865	34.4	35.4	22.9	42.7	2.68	Ss, lt brn, fg, trnsl, subang, clean, sl tr mica, fri, non calc.
8213	N. P. P.		N. P. P.			35.1	22.2	40.2		-
8214	1631	1581	329	299	33.9	29.0	24.1	35.5	2.66	AA
8215	NO ANALYSIS - UNCONSOLIDATED SAND									
8216	1651	1601	779	788	34.9	36.3	24.2	32.2	2.65	AA
8217	37	31	0.03	0.01	25.7	22.3	24.7	41.3	2.66	Ss, lt gy/lt brn, vfg, mica, carb stks, non calc.
8218 -) 8221)	NO ANALYSIS - SHALE									
8222 -) 8223)	NO ANALYSIS - UNCONSOLIDATED SAND									
8224	26	21	0.01	<0.01	17.6	19.7	41.1	36.5	2.72	AA

575.2
21.-

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CORE ANALYSIS RESULTS

Depth Feet	Horizontal Permeability Millidarcys		Vertical Permeability Millidarcys		Helium Porosity %	% Porosity by Fluid Summation	Residual Saturation % Pore		Grain Density	Sample Description and Remarks
	Ka	Kl	Ka	Kl			Oil	Total Water		
CORE NO. 7										
8225	600	570	0.11	0.07	29.4	33.6	25.0	29.5	2.70	Ss, lt brn/lt gy, fg, clr - trnsl, subrnd - subang, mica, carb stks, non calc.
8226	130	116	0.01	<0.01	27.4	22.4	36.2	35.7	2.69	Ss, lt gy/lt brn, vf-fg, mica, carb stks, non calc.
8227	51	43	0.01	<0.01	22.2	23.1	30.7	29.9	2.70	AA, vfg.
8228	32	27	0.01	<0.01	17.4	18.8	29.3	41.5	2.70	AA, ext fg.
8229 -) 8242)	NO ANALYSIS - SHALE									
8243	8.0	6.1	0.01	<0.01	14.7	20.9	18.7	72.2	2.70	AA, vfg, tr py.
8244	3679	3599	3066	2986	26.0	25.1	22.3	44.2	2.69	Ss, lt brn/lt gy, cg, sub trnsl, fst, subrnd - subang, low sph, f/w std, fri, non calc.

base shale

Base sst to 2.3 and shale mb

n = 27

8 5 -)
8246 1/2) NO ANALYSIS - SHALE

Massive sst. mb start.

CORE NO. 8

8261 -)
8263) NO ANALYSIS - SHALE

8264	3039	2959	1266	1216	32.5	32.5	19.1	30.5	2.68	Ss, lt brn/lt gy, fg, clr-trnsl, subrnd - subang, fri, mica, non calc.
8265	723	683	703	663	27.3	33.1	23.6	28.7	2.70	AA
8266	NO ANALYSIS - UNCONSOLIDATED SAND									
8267	1112	1062	1101	1051	24.5	25.2	26.2	28.6	2.68	AA

84.3

3

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CORE ANALYSIS RESULTS

Depth Feet	Horizontal Permeability Millidarcys		Vertical Permeability Millidarcys		Helium Porosity %	% Porosity by Fluid Summation	Residual Saturation % Pore		Grain Density	Sample Description and Remarks
	Ka	Kl	Ka	Kl			Oil	Total Water		
CORE NO. 8 (CONTINUED)										
8268	1729	1669	1292	1242	24.1	30.5	20.0	32.5	2.61	Ss, lt brn/lt gy, mg, trnsl, fst, subrnd - subang, f/w std, fri, py, lig, tr mica, non calc.
8269	1857	1807	1845	1785	29.5	27.6	19.6	37.3	2.70	AA
8270	6588	6488	4597	4517	30.1	32.5	19.4	36.3	2.70	AA
8271	2303	2228	1712	1652	30.8	29.6	24.7	32.8	2.70	AA
8272	2375	2295	1437	1387	29.9	30.5	20.3	30.5	2.70	AA
8273	3959	3829	1745	1685	27.1	31.0	20.6	29.0	2.68	AA
8274	5593	5513	4522	4442	30.9	31.3	20.8	27.8	2.70	AA
8275	5089	5009	3993	3913	30.2	32.1	16.8	29.3	2.71	AA
8276	2604	2524	1705	1645	24.8	33.4	19.2	27.5	2.65	AA
8277	2978	2898	947	907	29.5	32.2	17.1	28.9	2.65	AA
8278	1839	1779	N. P. P.		29.7	32.3	20.1	26.3	2.67	AA
8279	3886	3806	1394	1344	30.0	32.2	18.3	31.1	2.70	AA
8280	3364	3284	2104	2044	24.9	32.2	20.5	27.6	2.64	AA
8281	3807	3727	1477	1427	23.5	31.4	21.0	33.4	2.68	AA
8282	4160	4080	2760	2680	31.4	32.4	20.7	35.8	2.70	AA
8283	3798	3718	2871	2791	27.1	31.2	20.2	31.4	2.65	Ss, lt brn/lt gy, f-mg, trnsl, fst, subrnd - subang, f/w std, fri, tr py, tr lig, tr mica, non calc.
8284	3559	3479	1428	1378	27.0	30.6	20.3	35.6	2.64	AA
8285	4413	4333	3537	3457	30.0	33.5	18.8	27.8	2.64	AA
8286	3122	3042	2006	1946	32.2	31.6	20.3	35.4	2.65	AA, v py, v mica
8287	3001	2921	2875	2795	25.1	33.9	19.2	33.0	2.66	Ss, lt brn/lt gy, mg, sub trnsl, fst subrnd - subang, fri, py, mica, tr lig, non calc.

789.2
23

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Petroleum Reservoir Engineering
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CORE ANALYSIS RESULTS

Depth Feet	Horizontal Permeability Millidarcys		Vertical Permeability Millidarcys		Helium Porosity %	% Porosity by Fluid Summation	Residual Saturation % Pore		Grain Den- sity	Sample Description and Remarks
	Ka	Kl	Ka	Kl			Oil	Total Water		
CORE NO. 8 (CONTINUED)										
8288	5245	5165	2206	2146	30.8	31.5	21.3	33.3	2.66	Ss, lt brn/lt gy, mg, sub trnsl, fst, subrnd - subang, fri, py, mica, tr lig, non calc.
8289	3411	3331	3486	3406	31.9	25.6	22.3	37.9	2.67	AA
8290	6920	6820	2092	2032	31.7	29.4	20.1	44.2	2.66	AA
8291	3395	3315	2336	2256	30.4	32.2	18.3	34.2	2.67	AA
8292	2491	2411	1570	1520	32.6	32.0	21.6	38.1	2.66	AA
8293	712	672	620	590	27.5	28.4	25.0	29.2	2.68	AA, w/lig bands.
8294	3890	3810	3178	3098	26.2	29.8	28.5	22.5	2.65	Ss, lt brn/lt gy/ wh, m-cg, sub trnsl, fst, subrnd - subang, w std, lig, py, fri, non calc.
8295	4103	4023	3248	3168	33.2	31.9	22.9	26.0	2.65	AA
8296	3025	2945	2676	2596	31.2	34.6	22.3	27.7	2.66	AA
82	3778	3698	3474	3394	32.2	31.6	18.7	33.9	2.65	AA
8298	3675	3595	3359	3279	32.2	30.7	16.6	35.5	2.65	AA
8299	6091	5991	5548	5468	34.2	30.6	23.9	29.4	2.65	AA
8300	3455	3375	1997	1937	33.4	32.5	29.8	27.7	2.66	AA, mg.
8301	3679	3599	3638	3558	31.0	31.2	18.9	31.1	2.67	AA
8302	SPLIT PLUG		2186	2126	33.0	33.1	20.8	32.0	2.67	-
8303	SPLIT PLUG		2233	2173	32.8	34.5	21.7	33.3	2.67	-
8304	3782	3702	3469	3389	33.7	30.3	18.2	34.3	2.66	AA
8305	7257	7157	6802	6702	33.8	32.9	23.7	26.4	2.67	AA
8306	5489	5409	3486	3406	33.9	33.4	27.2	23.4	2.67	Ss, lt brn/lt gy/ wh, m-cg, trnsl, fst, subrnd - subang, f std, mica tr py, tr lig, fri, non calc.
8307	2102	2042	1266	1216	29.7	35.0	22.9	26.0	2.68	AA, mg, lam.

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CORE ANALYSIS RESULTS

Depth Feet	Horizontal Permeability Millidarcys		Vertical Permeability Millidarcys		Helium Porosity %	% Porosity by Fluid Summation	Residual Saturation % Pore		Grain Density	Sample Description and Remarks
	Ka	Kl	Ka	Kl			Oil	Total Water		
CORE NO. 8 (CONTINUED)										
8308	N. P. P.		1768	1708	34.0	34.6	24.0	32.1	2.65	Ss, lt brn/lt gy/wh, m-cg, orns1, fst, subrnd - subang, f std, mica, tr py, tr lig, fri, non calc.
8309	N. P. P.		7455	7355	34.0	34.8	20.7	28.7	2.65	-
CORE NO. 9										
8321	N. P. P.		N. P. P.			30.9	19.4	43.7		-
8322	4768	4688	3148	3068	32.0	32.4	23.6	39.9	2.65	-
8323	N. P. P.		N. P. P.			34.4	21.9	32.6		-
8324	919	879	684	644	29.2	29.3	26.5	35.5	2.65	AA, mg.
8325	1885	1825	1222	1172	31.5	34.0	25.1	32.0	2.66	AA
8326	3103	3023	3063	2983	34.0	36.3	19.5	32.5	2.66	AA
8327	1924	1864	1665	1615	32.0	32.3	21.8	44.2	2.66	AA
8328	3474	3394	678	648	32.8	33.8	24.4	31.6	2.67	AA
8329	4169	4089	1463	1413	24.6	24.9	24.1	40.1	2.68	AA
8330	3584	3504	1222	1172	32.0	33.5	25.7	35.6	2.66	AA, mg.
8331	5167	5087	982	942	31.0	31.3	22.8	42.9	2.66	AA, mg, w/ c lam.
8332	N. P. P.		N. P. P.			34.6	24.0	33.9		-
8333	N. P. P.		N. P. P.			Σ 1664.7	31.2	23.8	33.2	- Base marl
8334	694	664	392	362	34.1	34.1	22.9	26.9	2.67	- \$0.05
8335	N. P. P.		N. P. P.			33.1	20.6	41.8		- micaceous
8336	N. P. P.		N. P. P.			38.2	19.9	43.8		- sst
8337	N. P. P.		N. P. P.			34.9	17.8	40.9		-
8338	N. P. P.		N. P. P.			31.7	20.5	39.1		-
8339	N. P. P.		N. P. P.			32.3	19.6	46.9		-
8340	N. P. P.		N. P. P.			29.7	15.7	33.8		-
8341	586	556	420	390	31.0	31.4	18.8	33.9	2.67	Ss, lt brn/lt gy, fg, ext mica, (muscov + biot), non calc.

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CORE ANALYSIS RESULTS

Depth Feet	Horizontal Permeability Millidarcys		Vertical Permeability Millidarcys		Helium Porosity %	% Porosity by Fluid Summation	Residual Saturation % Pore		Grain Den- sity	Sample Description and Remarks
	Ka	Kl	Ka	Kl			Oil	Total Water		
CORE NO. 9 (CONTINUED)										
8342	578	548	399	369	29.2	30.0	20.2	38.1	2.67	Ss, lt brn/lt gy, fg, ext mica, (muscov + biot), non calc.
8343	N. P. P.		N. P. P.			34.8	20.8	35.0	-	
8344	N. P. P.		N. P. P.			30.1	21.0	30.4	-	
8345	N. P. P.		N. P. P.			31.9	20.8	37.4	-	
8346	N. P. P.		N. P. P.			34.6	18.1	33.8	-	
CORE NO. 10										
8381	833	793	629	599	27.6	28.3	25.0	48.4	2.67	Ss, lt gy/lt brn, vfg, clr, subang, mica, carb, tr py, non calc.
8382	891	851	420	390	34.7	34.1	20.6	36.6	2.66	AA
8383	N. P. P.		N. P. P.			33.3	19.9	39.4	-	
8384	N. P. P.		N. P. P.			33.2	20.4	38.3	AA	
8385	N. P. P.		N. P. P.			35.9	19.6	37.8	-	
8386	N. P. P.		N. P. P.			35.3	21.2	38.3	-	
8387	N. P. P.		N. P. P.			35.1	23.4	35.1	-	
8388	NO ANALYSIS POSSIBLE									
8389	N. P. P.		N. P. P.			36.1	20.6	34.9	-	
8390	N. P. P.		N. P. P.			37.1	17.2	35.2	-	
8391	N. P. P.		N. P. P.			29.6	22.9	44.7	-	
8392 -) 8397)	NO ANALYSIS POSSIBLE									
8398	N. P. P.		420	390	27.9	34.0	17.8	49.1	2.70	Ss, lt gy, vfg, clr, subang, mica, py, carb, non calc.
8399	NO ANALYSIS POSSIBLE									
8400	N. P. P.		N. P. P.			32.7	19.9	40.4	-	
8401	784	744	0.06	0.03	29.1	27.7	19.9	44.3	2.66	AA, lt gy/lt brn.

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CORE ANALYSIS RESULTS

Depth Feet	Horizontal Permeability Millidarcys		Vertical Permeability Millidarcys		Helium Porosity %	% Porosity by Fluid Summation	Residual Saturation % Pore		Grain Density	Sample Description and Remarks
	Ka	Kl	Ka	Kl			Oil	Total Water		
CORE NO. 10 (CONTINUED)										
8402	0.01	<0.01	0.01	<0.01	6.3	1.9	0	54.9	2.73	Ss, lt gy, vfg, clr subang, hd, calc cmt, diss, py, sl carb.
8403	0.002	0.001	0.002	0.001	3.0	2.9	0	74.6	2.73	AA
8404	N. P. P.		N. P. P.			1.9	0	57.0		-
8405	N. P. P.		N. P. P.			26.5	22.9	44.5		-
8406	0.01	<0.01	0.01	<0.01	26.2	27.7	23.2	45.3	2.76	Ss, lt gy, vf-fg, clr, subang, pt calc cmt, mica, (muscov + sme biot) diss, py.
8407 -)	NO ANALYSIS POSSIBLE									
8410)										
8411	N. P. P.		N. P. P.			33.3	17.0	47.8		-
8412	N. P. P.		N. P. P.			34.0	18.7	45.8		-
8413 -)	NO ANALYSIS POSSIBLE									
8431)										
8432	N. P. P.		N. P. P.			32.2	14.6	39.8		-
CORE NO. 11										
8441	196	176	113	100	34.0	35.9	15.8	49.0	2.66	-
8442	N. P. P.		N. P. P.			34.7	21.5	42.1		-
8443	713	673	N. P. P.		33.0	32.1	17.1	35.1	2.66	Ss, lt brn, vf-fg, clr - transl, subrnd - subang, py, sl carb, sl mica, non calc.
8444	826	786	418	388	32.3	36.0	17.5	37.3	2.66	AA
8445	857	817	234	214	33.7	35.1	15.9	39.1	2.67	AA
8446	908	868	110	98	34.4	32.1	13.5	38.2	2.68	AA
8447	732	692	N. P. P.		34.0	32.7	18.1	37.3	2.70	AA
8448	N. P. P.		N. P. P.			34.3	14.6	36.8		-
8449	N. P. P.		N. P. P.			32.8	18.1	36.8		-

198.4

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CORE ANALYSIS RESULTS

Depth Feet	Horizontal Permeability Millidarcys		Vertical Permeability Millidarcys		Helium Porosity %	% Porosity by Fluid Summation	Residual Saturation % Pore		Grain Den- sity	Sample Description and Remarks
	Ka	Kl	Ka	Kl			Oil	Total Water		
CORE NO. 11 (CONTINUED)										
8450	906	866	N. P. P.		33.0	35.5	17.4	45.5	2.69	Ss, lt brn, vf-fg clr - trnsl, subrnd - subang, py, sl carb, sl mica, non calc.
8451	763	723	702	662	30.9	30.2	15.5	38.7	2.66	AA
8452	N. P. P.		N. P. P.			33.2	18.0	42.2		-
8453	164	148	112	99	35.0	35.0	16.4	39.3	2.67	-
8454	143	128	98	87	30.0	30.2	21.2	40.9	2.67	-
8455	120	107	96	85	35.0	36.6	14.2	40.6	2.68	-
8456	N. P. P.		N. P. P.			32.3	17.6	44.5		-
8457	342	312	197	177	28.9	30.2	19.3	40.8	2.65	Ss, lt brn/lt gy, vfg, clr - trnsl, subrnd - subang, mica, carb, sl py non calc.
8458	405	375	265	245	30.0	29.6	16.5	36.9	2.65	AA
8459	327	297	N. P. P.		28.6	30.2	19.7	38.9	2.69	AA
8460	N. P. P.		N. P. P.			32.8	15.2	46.1		-
8461	149	134	138	123	29.4	31.3	16.0	45.4	2.69	AA
8462	N. P. P.		N. P. P.			30.6	18.4	46.8		-
8463	425	395	372	342	30.4	32.6	16.8	58.5	2.68	AA
8464	716	676	585	555	33.5	31.1	17.6	41.2	2.69	AA
8465	N. P. P.		N. P. P.			31.8	17.2	39.6		-
8466	538	508	329	299	30.2	31.8	15.9	41.9	2.67	AA
8467	N. P. P.		N. P. P.			33.0	16.3	38.0		-
8468	637	607	612	582	32.7	33.8	15.4	36.2	2.69	AA
8469	129	116	29	24	24.8	28.4	17.8	36.8	2.69	AA
8470	250	230	234	214	30.7	31.9	17.5	35.6	2.69	AA
8471	494	462	448	418	32.8	36.8	19.5	37.6	2.70	AA
8472	N. P. P.		N. P. P.			35.2	18.5	40.7		-
8473	58	50	23	19	25.8	28.4	19.0	37.5	2.70	-

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CORE ANALYSIS RESULTS

Depth Feet	Horizontal Permeability Millidarcys		Vertical Permeability Millidarcys		Helium Porosity %	% Porosity by Fluid Summation	Residual Saturation % Pore		Grain Density	Sample Description and Remarks
	Ka	Kl	Ka	Kl			Oil	Total Water		
CORE NO. 11 (CONTINUED)										
8474	248	228	76	66	28.1	31.0	16.2	40.5	2.67	Ss, lt brn/lt gy, vfg, clr - trnsl, subrnd - subang, mica, carb, sl py, non calc.
8475	204	184	76	66	26.6	32.1	17.9	34.7	2.70	AA, more py.
8476	722	682	63	54	32.1	30.8	19.4	40.0	2.65	AA
8477	220	200	38	32	30.5	28.9	22.2	40.7	2.70	AA
8478	504	474	392	362	33.1	32.2	15.6	53.2	2.69	AA
8478	420	390	262	242	30.5	29.2	20.7	40.3	2.69	AA
8480	NO SAMPLE									
8481	252	232	76	66	30.2	31.2	20.8	43.8	2.70	AA
8482	510	480	437	407	32.0	33.5	14.5	50.9	2.69	AA
8483	578	548	471	441	32.0	36.4	22.9	42.8	2.69	AA
8484	N. P. P.		N. P. P.			32.9	18.2	41.4		-
8485	142	127	76	66	30.9	27.5	19.9	45.7	2.71	AA
8486	N. P. P.		N. P. P.			26.4	20.5	46.5		AA, but tr calc.
8487	119	106	38	32	26.8	26.6	18.7	45.4	2.69	AA
8488	73	63	N. P. P.		25.7	27.8	22.4	47.9	2.69	AA
8489	N. P. P.		197	177	29.8	29.8	21.4	49.3	2.70	AA
8490	236	216	197	177	29.8	32.7	19.6	49.1	2.66	AA
8491	308	278	17	14	31.4	28.8	21.0	43.3	2.70	AA, w/carb lams.
8492	N. P. P.		N. P. P.			26.9	23.8	41.1		AA, w/carb lams.
8493	58	50	0.83	0.56	23.7	31.2	19.6	40.9	2.65	AA, w/carb lams.
8494	120	107	2.9	2.1	26.6	27.0	18.9	43.6	2.66	AA, w/carb lams.
8495	131	117	8.0	6.1	27.0	28.3	19.9	46.8	2.67	AA, w/carb lams.
8496	90	79	3.1	2.2	29.0	29.1	22.6	38.6	2.66	-
8497	97	85	34	28	26.0	23.4	19.9	52.7	2.68	AA, w/carb lams.
8498	75	66	5.1	3.8	23.9	26.5	24.6	47.8	2.70	AA, w/carb lams.

CORE NO. 12

8499	90	79	14	11	29.2	28.7	21.5	41.6	2.70	AA, w/carb lams.
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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

File SCA 100 Page No. 18
 Well 33/9-3

CORE ANALYSIS RESULTS

Depth Feet	Horizontal Permeability Millidarcys		Vertical Permeability Millidarcys		Helium Porosity %	% Porosity by Fluid Summation	Residual Saturation % Pore		Grain Density	Sample Description and Remarks
	Ka	Kl	Ka	Kl			Oil	Total Water		
CORE NO. 12 (CONTINUED)										
8500	253	233	63	54	29.0	31.8	18.3	42.3	2.66	Ss, lt brn/lt gy, vfg, clr - trnsl, subrnd - subang, mica, carb lams, sl py, non calc.
8501	352	322	214	194	32.7	32.3	16.8	38.6	2.70	Ss, lt brn/lt gy, vfg, clr - trnsl, subrnd - subang, mica, carb, sl py, non calc.
8502	458	428	54	46	30.5	26.5	17.6	42.1	2.67	AA
8503	106	94	10.0	7.8	26.5	26.0	20.6	41.3	2.70	AA, w/carb lams.
8504	123	110	32	27	31.6	28.9	17.	42.9	2.70	AA, w/carb lams.
8505	203	183	127	113	28.3	31.8	18.5	40.7	2.69	AA, w/carb lams.
8506	269	249	68	59	30.1	28.5	17.7	42.7	2.69	AA
8507	7.4	5.6	0.01	0.01	22.2	23.2	24.3	46.2	2.70	AA, w/carb lams.
8508	0.003	0.002	0.002	0.001	2.2	5.6	19.7	74.8	2.69	Lst, med gy, hd, dens, fine calc, w/vfg sd lenticles, py.
8509	N. P. P.		N. P. P.			21.2	17.3	48.3		-
8510	N. P. P.		N. P. P.			24.9	22.3	47.7		-
8511	195	175	69	59	30.8	27.1	16.7	38.5	2.69	Ss, lt brn/lt gy, vfg, clr - trnsl, subrnd - subang, mica, carb, non calc.
8512	N. P. P.		N. P. P.			22.0	19.3	42.9		-
8513	126	112	46	39	29.0	29.7	21.3	41.9	2.70	AA
8514	153	137	105	94	20.6	19.3	17.1	70.5	2.69	AA
8515	16	12	0.30	0.18	19.9	23.2	24.7	43.8	2.69	Ss, med gy, vfg, trnsl, subrnd to subang, mica, (pred scov + sme biot). arg/carb stks + lams, tr py, non calc.

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CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS

File SCA 100 Page No. 19
 Well 33/9-3

CORE ANALYSIS RESULTS

Depth Feet	Horizontal Permeability Millidarcys		Vertical Permeability Millidarcys		Helium Porosity %	% Porosity by Fluid Summation	Residual Saturation % Pore		Grain Density	Sample Description and Remarks
	Ka	Kl	Ka	Kl			Oil	Total Water		

CORE NO. 12 (CONTINUED)

8516	1.5	1.0	0.23	0.14	20.2	23.3	22.8	43.1	2.70	Ss, med gy, vfg, trnsl, subrnd to subang, v mica, (pred muscov + sme biot), arg/carb stks + lams, tr py, non calc.
8517	17	14	0.30	0.18	22.9	23.6	26.2	46.8	2.70	AA
8518	1.4	1.0	0.30	0.18	18.5	23.2	22.8	58.7	2.70	AA
8519	13	10	1.9	1.3	22.3	25.7	23.2	41.5	2.69	AA
8520	20	16	0.68	0.45	22.4	21.0	22.7	54.4	2.69	AA
8521	45	38	3.0	2.1	24.5	26.6	20.8	40.4	2.70	AA
8522	5.5	4.1	0.47	0.31	21.5	26.8	20.0	43.4	2.69	AA
8523	6.8	5.2	0.44	0.28	22.0	23.8	24.8	48.8	2.69	-
8524	8.3	6.4	3.0	2.1	21.7	23.6	26.7	50.1	2.67	AA
8525	1.7	1.2	0.37	0.24	20.3	22.9	23.1	53.7	2.69	AA
8526	8.5	6.5	1.9	1.3	20.2	22.9	25.5	50.9	2.69	AA
8527	0.06	0.03	0.06	0.03	18.8	20.5	21.4	54.8	2.71	AA
8528	0.14	0.08	0.06	0.03	19.1	21.8	24.7	55.5	2.71	AA
8529	2.7	2.0	0.80	0.54	20.9	22.2	26.9	57.5	2.70	AA
8530	0.23	0.14	0.06	0.03	19.7	23.6	22.0	52.7	2.71	AA
8531	0.16	0.10	0.13	0.08	23.0	23.5	23.9	54.4	2.69	-
8532	NO ANALYSIS - SHALE									
8533	2.9	2.1	1.12	0.80	19.0	21.1	16.6	65.4	2.67	AA
8534	1.5	1.0	0.32	0.20	18.2	21.7	21.1	52.8	2.70	Ss, med gy, vfg, dens, v mica, py, calc cmt.
8535	0.04	0.02	0.02	0.01	4.6	5.2	12.8	68.4	2.80	Ss, med gy, vfg, trnsl, subrnd - subang, v mica, (pred muscov + sme biot), arg/carb stks + lams, tr py, non calc.

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CORE ANALYSIS RESULTS

Depth Feet	Horizontal Permeability Millidarcys		Vertical Permeability Millidarcys		Helium Porosity %	% Porosity by Fluid Summation	Residual Saturation % Pore		Grain Density	Sample Description and Remarks
	Ka	Kl	Ka	Kl			Oil	Total Water		

CORE NO. 12 (CONTINUED)

8536	5.3	4.0	1.12	0.08	19.7	19.6	18.7	61.9	2.66	Ss, med gy, vfg, trnsl, subrnd - subang, v mica, (pred muscov + sme biot), arg/carb stks + lams, tr py, non calc.
<i>Base Micaceous sst</i>										

8537 -)
 8555) NO ANALYSIS - SHALE

CORE NO. 13

8556 -)
 8596'3") NO ANALYSIS - SHALE

RM

CORE ANALYSIS RESULTS

REGISTRERT
STATENS OLJEDIREKTORAT
5. FEB. 1975

Company Mobil Exploration Norway Formation _____ File _____
Well 33/9-3 Core Type _____ Date Report _____
Field _____ Drilling Fluid _____ Analysts _____
County _____ State _____ Elev. _____ Location _____

Lithological Abbreviations

BAND - SD SHALE - SH LIME - LM	DOLOMITE - DOL CHERT - CH GYPSUM - GYP	ANHYDRITE - ANHY CONGLOMERATE - CONG FOSSILIFEROUS - FOSS	SANDY - SDY SHALY - SHY LIMY - LMY	FINE - FN MEDIUM - MED COARSE - CSE	CRYSTALLINE - XLN GRAIN - GRN GRANULAR - GRNL	BROWN - BRN GRAY - GY VUGGY - VGY	FRACTURED - FRAC LAMINATION - LAM STYLOLITIC - STY	SLIGHTLY - SL/ VERY - V/ WITH - W/
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SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCS	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	

Sample No.	Depth	Sample No.	Depth	Sample No.	Depth
CORE No. 1		66	8056	86	8076
1	7941	67	8057	87	8077
2	7942	68	8058	88	8078
3	7943	69	8059	89	8079
14	7955	70	8060	90	8080
CORE No. 2		71	8061	91	8081
19	8001	72	8062	92	8082
20	8002	73	8063	93	8083
21	8003	74	8064	94	8084
CORE No. 3		75	8065	95	8085
24	8012	76	8066	96	8086
40	8028	77	8067	97	8087
43	8031	78	8068	98	8088
56	8044	79	8069	99	8089
CORE No. 4		80	8070	100	8090
61	8051	81	8071	101	8091
62	8052	82	8072	102	8092
63	8053	83	8073	103	8093
64	8054	84	8074	104	8094
65	8055	85	8075	105	8095

STATENS OLJEDIREKTORAT

Jnr. Dato
847 6/2-75

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Saks- nr.	RM	Sett	Ru

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CORE ANALYSIS RESULTS

Company _____ Formation _____ File _____
 Well _____ Core Type _____ Date Report _____
 Field _____ Drilling Fluid _____ Analysts _____
 County _____ State _____ Elev. _____ Location _____

Lithological Abbreviations

SAND - SD DOLOMITE - DOL ANHYDRITE - ANHY SANDY - SDY FINE - FN CRYSTALLINE - XLN BROWN - BRN FRACTURED - FRAC SLIGHTLY - SL/
 SHALE - SH CHERT - CH CONGLOMERATE - CONG SHALY - SHY MEDIUM - MED GRAIN - GRN GRAY - GY LAMINATION - LAM VERY - V/
 LIME - LM GYPSUM - GYP FOSSILIFEROUS - FOSS LIMY - LMY COARSE - CSE GRANULAR - GRNL VUGGY - VGY STYLOLITIC - STY WITH - W/

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
<u>Sample No.</u>	<u>Depth</u>					<u>Sample No.</u> <u>Depth</u>
106	8096					150 8173
109	8099					151 8174
110	8100					152 8175
111	8101					153 8176
112	8102					154 8177
113	8103					155 8178
116	8106					156 8179
117	8107					157 8182
118	8108					158 8186
119	8109					159 8197
<u>CORE No. 5</u>						160 8207
120	8110					161 8213
121	8111					162 8214
						<u>CORE No. 6</u>
122	8112					140 8166
123	8113					144 8167
124	8114					145 8168
125	8115					146 8169
126	8116					147 8170
127	8117					148 8171
128	8118					149 8172
						<u>CORE No. 7</u>
						166 8225
						167 8226
						168 8227

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CORE ANALYSIS RESULTS

Company _____ Formation _____ File _____
 Well _____ Core Type _____ Date Report _____
 Field _____ Drilling Fluid _____ Analysts _____
 County _____ State _____ Elev. _____ Location _____

Lithological Abbreviations

SAND - SD SHALE - SH LIME - LM	DOLOMITE - DOL CHERT - CH GYPSUM - GYP	ANHYDRITE - ANHY CONGLOMERATE - CONG FOSSILIFEROUS - FOSS	SANDY - SDY SHALY - SHY LIMY - LMY	FINE - FN MEDIUM - MED COARSE - CSE	CRYSTALLINE - XLN GRAIN - GRN GRANULAR - GRNL	BROWN - BRN GRAY - GY VUGGY - VGY	FRACTURED - FRAC LAMINATION - LAM STYLOLITIC - STY	SLIGHTLY - SL/ VERY - V/ WITH - W/
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SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCS	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	

Sample No.	Depth	Sample No.	Depth	Sample No.	Depth
169	8228	188	8281	207	8300
170	8243	189	8282	208	8301
171	8244 8244	190	8283	209	8302
172	8264	191	8284	210	8303
173	8265	192	8285	211	8304
174	8267	193	8286	212	8305
175	8268	194	8287	213	8306
176	8269	195	8288	214	8307
177	8270	196	8289	215	8308
178	8271	197	8290	216	8309
179	8272	198	8291	CORE No. 9	
180	8273	199	8292	217	8321
181	8274	200	8293	218	8322
182	8275	201	8294	219	8323
183	8276	202	8295	220	8324
184	8277	203	8296	221	8325
185	8278	204	8297	222	8326
186	8279	205	8298	223	8327
187	8280	206	8299	224	8328

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CORE ANALYSIS RESULTS

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 Well _____ Core Type _____ Date Report _____
 Field _____ Drilling Fluid _____ Analysts _____
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Lithological Abbreviations

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SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
<u>Sample No.</u>	<u>Depth</u>					<u>Sample No.</u> <u>Depth</u>
225	8329					261 8411
226	8330					262 8412
227	8331					263 8432
228	8332					264 8441
229	8333					265 8442
230	8334					266 8443
231	8335					267 8444
232	8336					268 8445
233	8337					269 8446
234	8338					270 8447
235	8339					271 8448
236	8340					272 8449
237	8341					273 8450
238	8342					274 8451
239	8343					275 8452
240	8344					276 8453
241	8345					277 8454
242	8346					278 8455
						279 8456

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SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCY	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS	
				OIL	TOTAL WATER		
<i>Sample No.</i>	<i>Depth</i>					<i>Sample No.</i>	
<i>280</i>	<i>8457</i>					<i>318</i>	
<i>281</i>	<i>8458</i>					<i>319</i>	
<i>282</i>	<i>8459</i>					<i>320</i>	
<i>283</i>	<i>8460</i>					<i>CORE No. 12</i>	
<i>284</i>	<i>8461</i>					<i>321</i>	
<i>285</i>	<i>8462</i>					<i>322</i>	
<i>286</i>	<i>8463</i>					<i>323</i>	
<i>287</i>	<i>8464</i>					<i>324</i>	
<i>288</i>	<i>8465</i>					<i>325</i>	
<i>289</i>	<i>8466</i>					<i>326</i>	
<i>290</i>	<i>8467</i>					<i>327</i>	
<i>291</i>	<i>8468</i>					<i>328</i>	
<i>292</i>	<i>8469</i>					<i>329</i>	
<i>293</i>	<i>8470</i>					<i>330</i>	
<i>294</i>	<i>8471</i>					<i>331</i>	
<i>295</i>	<i>8472</i>					<i>332</i>	
<i>296</i>	<i>8473</i>					<i>333</i>	
<i>297</i>	<i>8474</i>					<i>334</i>	
<i>298</i>	<i>8475</i>					<i>335</i>	

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CORE ANALYSIS RESULTS

Company _____ Formation _____ File _____
 Well _____ Core Type _____ Date Report _____
 Field _____ Drilling Fluid _____ Analysts _____
 County _____ State _____ Elev. _____ Location _____

Lithological Abbreviations

SAND - SD SHALE - SH LIME - LM	DOLOMITE - DOL CHERT - CH GYPSUM - GYP	ANHYDRITE - ANHY CONGLOMERATE - CONG FOSSILIFEROUS - FOSS	SANDY - SDY SHALY - SHY LIMY - LMY	FINE - FN MEDIUM - MED COARSE - CSE	CRYSTALLINE - XLN GRAIN - GRN GRANULAR - GRNL	BROWN - BRN GRAY - GY VUGGY - VGY	FRACTURED - FRAC LAMINATION - LAM STYLOLITIC - STY	SLIGHTLY - SL/ VERY - V/ WITH - W/
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SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS	
				OIL	TOTAL WATER		
Sample No.	Depth			Sample No.	Depth	Sample No.	Depth
336	8514			355	8534		
337	8515			356	8535		
338	8516			357	8536		
339	8517			CORE No. 13			
340	8518			(8556' - 8596' 3")			
341	8519			(NO ANALYSIS)			
342	8520						
343	8521						
344	8522						
345	8523						
346	8524						
347	8525						
348	8526						
349	8527						
350	8528						
351	8529						
352	8530						
353	8531						
354	8533						

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