

## Core Analysis Results

Company MOBIL OIL EXPLORATION NORWAY, INC. Formation \_\_\_\_\_ File SCA 73  
 Well 33/12-2 Core Type CONVENTIONAL DIAMOND Date Report SEPT. 1974  
 Field NORTH SEA Drilling Fluid \_\_\_\_\_ Analysts JSG  
 County OFF SHORE State NORWAY Elev. \_\_\_\_\_ Location \_\_\_\_\_

### Lithological Abbreviations

Sand-Sd	Dolomite-Dol	Anhydrite-Anhy	Sandy-Sdy	Fine-Fn	Crystalline-Xlm	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
		Ka	Kl		Oil	Total Water	

### CORE NO. 2 - VERTICAL PERMEABILITIES

29'9"	91	80				Ss, lt brn-gy, vf-f-m-cg, mod std, sub-rnd - sub-ang, w cmtd, carb stks.
28'9"	40	34				Ss, lt gy brn, vf-fg, mod std, sub-ang - sub-rnd, w cmtd, sl slty.
27'5"	NO PERM POSS					
26'5"	34	28				Ss, lt gy brn, vf-f-occ mg, mod std, sub-ang - sub-rnd, w cmtd, slty in pt.
25'5"	416	386				AA
24'0"	808	768				AA
23'0"	0.34	0.21				Ss, lt gy - lt brn, vf-fg, p std, w cmtd, carb strks.
22'0"	3171	3091				Ss, wh, m-cg, w std, w cmtd.
21'0"	NO PERM POSS					
20'0"	NO PERM POSS					
19'0"	0.91	0.61				Ss, wh, f-m-cg, w std, sub-ang - sub-rnd, w cmtd, abnt py.
18'0"	0.24	0.15				Ss, lt gy brn, vf-fg, mod std, sub-ang, w cmtd, carb stks.
17'0"	NO PERM POSS					
16'0"	59	51				Ss, wh-lt gy, m-cg, sub-ang - sub-rnd, w std, w cmtd, abnt py.
15'5"	NO PERM POSS					
14'5"	3738	3658				Ss, wh, f-m-cg, sub-ang - sub-rnd, w std, w cmtd, tr py.
13'5"	NO PERM POSS					

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**

File SCA 73 Page No. 2  
 Well 33/12-2

**CORE ANALYSIS RESULTS**

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYs	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	
		Ka	K1			
<u>CORE NO. 2 (CONTINUED) - VERTICAL PERMEABILITIES</u>						
	12'5"	842	802			Ss, lt brn, f-m-occ cg, w std, w cmtd, sub-ang - sub-rnd.
	11'5"	2626	2546			AA, w/abnt py.
	10'5"	2418	2338			AA, w/tr py.
	9'5"	1490	1440			AA, w/tr py.
	8'5"	NO PERM POSS				
	7'5"	NO PERM POSS				
	6'5"	NO PERM POSS				
	5'5"	158	142			Ss, lt brn-wh, f-m-occ cg, w std, w cmtd, tr carb.
	4'9"	NO PERM POSS				
	4'2"	NO PERM POSS				
	3'5"	245	225			Ss, lt brn-wh, f-m-occ cg, w std, sub-ang - sub-rnd, w cmtd.
	2'5"	1295	1245			AA
	1'5"	88	77			AA
	0'6"	595	565			AA, w/abnt py.
<u>CORE NO. 3 - VERTICAL PERMEABILITIES</u>						
	8928'0"	0.11	0.06			Ss, lt gy brn, vf-fg, mod std, sub-ang, w cmtd, slty, tr mica.
	8927'0"	NO PERM POSS				
	8926'3"	0.02	0.01			Sh w/py, tr vfg ss.
	8925'4"	NO PERM POSS				
	8924'4"	NO PERM POSS				
	8923'4"	1.07	0.73			Ss, gy-dk gy, vfg, w cmtd, v arg.
	8922'5"	NO PERM POSS				
	8921'5"	0.02	0.01			Ss, gy-dk gy, slt-vfg, w cmtd, arg, tr carb.
	8921'5"	0.02	0.01			Ss, gy-dk gy, vf-f-occ mg, p std, v w cmtd, tight, abnt py.
	8920'10"	27	22			Ss, lt gy brn, vf-f-mg, w std, sub-ang - sub-rnd, w cmtd, tr mica.

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

File SCA 73 Page No. 3  
 Well 33/12-2

**CORE ANALYSIS RESULTS**

SAMPLE NUMBER	DEPTH FEET	PERMEABILITY MILLIDARCYS	POROSITY PER CENT	RESIDUAL SATURATION PER CENT PORE		SAMPLE DESCRIPTION AND REMARKS
				OIL	TOTAL WATER	

Ka      K1

CORE NO. 3 (CONTINUED) - VERTICAL PERMEABILITIES

8919'11"	0.15	0.09				Ss, lt gy brn, vf-f-mg, w std, sub-ang - sub-rnd, w cmtd, abnt py.
8919'3"	0.39	0.25				Ss, lt gy brn, vf-f-mg, w std, sub-ang - sub-rnd, w cmtd, tr py, tr mica.

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.