Porosity and permeability core analysis results (13,064.0'-13,075.0') from the Pan American Redoubt Shoal State 29690 No. 1 well.

Received 29 April 2004.

Total of 7 pages in report.

Alaska Geologic Materials Center Data Report No. 313

CORE ANALYSIS RESULTS

FOREST OIL CORP.

REDOUBT SHOALS [redacted] #1

29690

CL FILE 57111-104020

Performed by:
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February 10, 2004

Forest Oil Corp.
310 K Street Ste 700
Anchorage, AK 99501

Attn: Mr. Art Saltmarsh

Subject: Transmittal of Analysis Results
Redoubt Shoals 29692#1
C L File No.: 57111-104020-FO

Dear Mr. Saltmarsh;

Five core samples were submitted to our Bakersfield facility for analysis. Two sample plugs were drilled from each of the submitted samples, one horizontally oriented, and the second vertically oriented. The plugs were "dried" in a humidity-controlled oven at 60° C and 45% relative humidity until stable weights had been attained. Following weight stabilization, a net stress of 800 psig was applied for porosity and permeability determinations. The CMS-300 automated core measurement system was utilized in performing these tests. Porosity was determined by Boyles' Law double-cell methods and permeability to air was determined using unsteady-state pressure decay methods. XRD mineral analysis and thin-section preparation were requested in addition to the poro-perm testing. Plug end clippings were forwarded to our Calgary, Canada laboratory for thin section preparation and to our Broussard, Louisiana laboratory for XRD analysis. The results of the porosity, permeability, and XRD analysis accompany this letter along with the prepared thin sections.

We appreciate this opportunity to be of service to you and to Forest Oil Corporation. Should you have any questions, or if we may be of further assistance in the future, please do not hesitate to contact us.

Very truly yours,

Jeffry L. Smith
Laboratory Supervisor - Rock Properties
Core Laboratories - Bakersfield

1 bound report w/ CD, 1 bound report, and 2 copies rpt: addressee

Core Lab

Forest Oil Co.
Redoubt Shoals ST 29690 #1
Redoubt Shoals Field

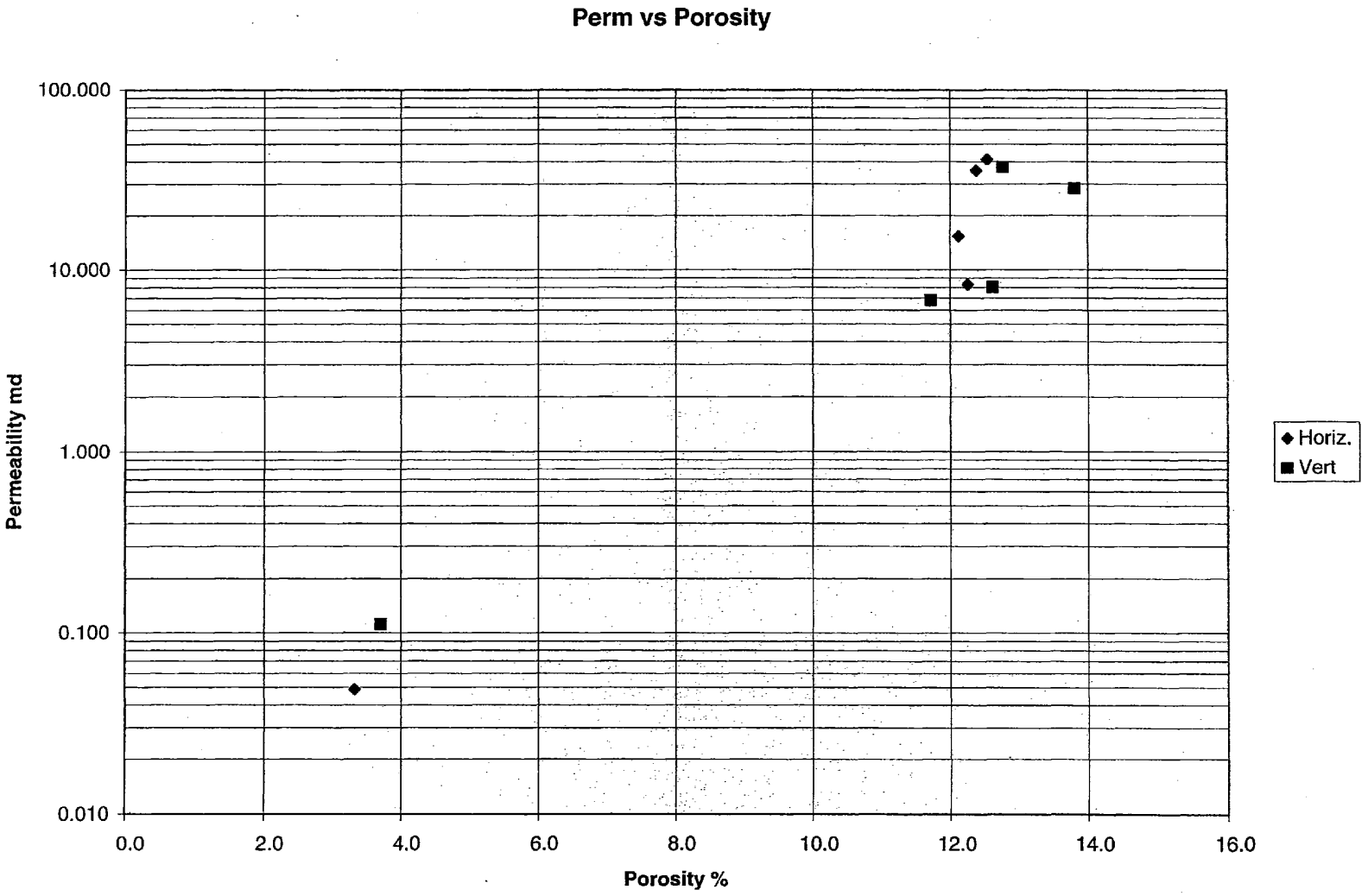
File No. : 57111-104020-FO

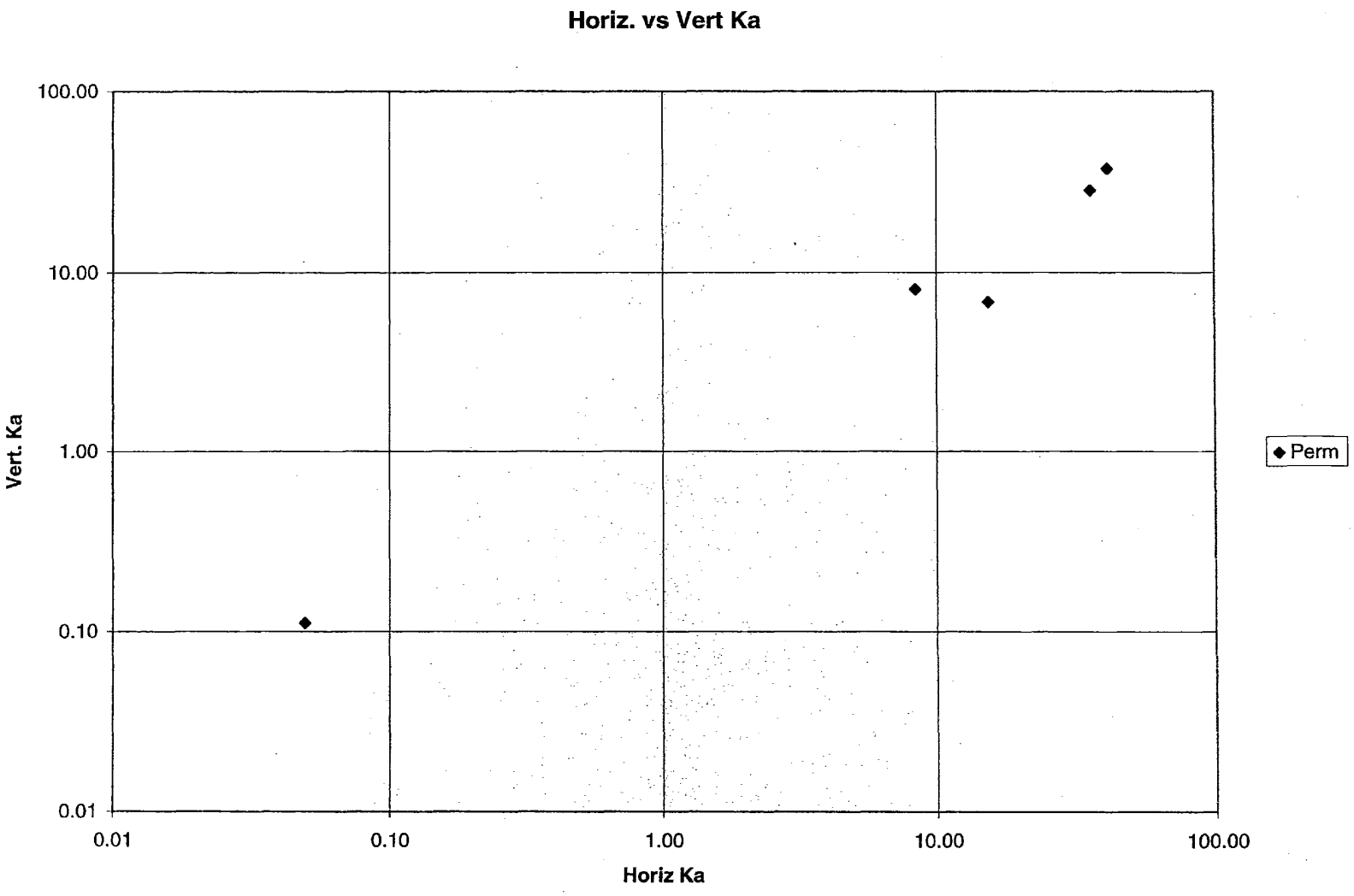
Porosity and Permeability Values at 800 psi Net Stress

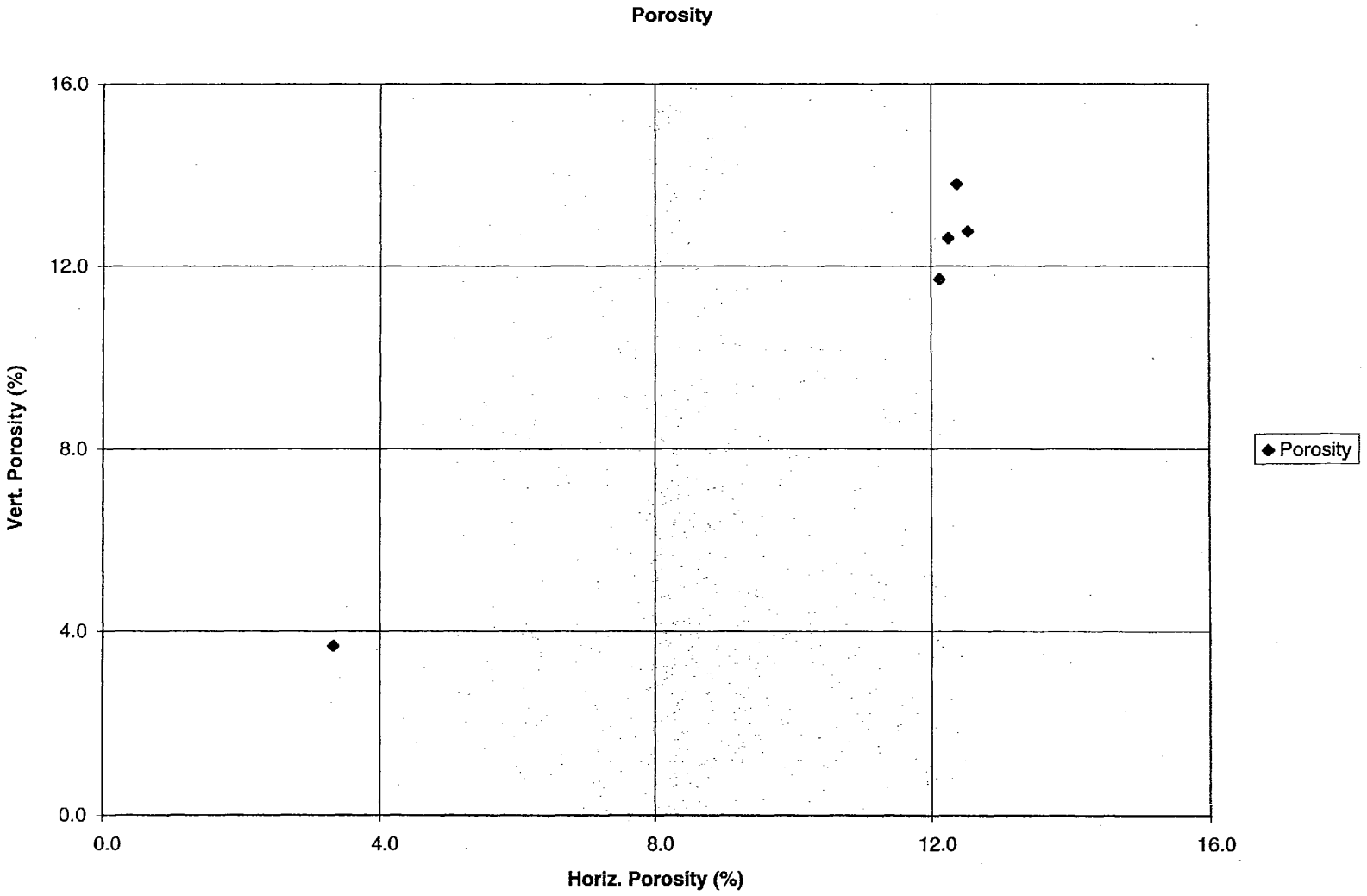
Sample No.	Sample Depth (ft)	Permeability Kair md	Permeability Kklink md	Porosity %	Grain Density g/cc	Description	Method
1H	13064.0	0.0492	0.0272	3.3	2.66	Sst gry vf-fgr vslty no stn no flor	CMS-300
2H	13065.5	41.3	37.1	12.5	2.61	Sst gry vf-gran slty no stn no flor	CMS-300
3H	13067.0	35.8	32.2	12.4	2.62	Sst gry vf-gran slty no stn no flor	CMS-300
4H	13073.0	15.4	13.7	12.1	2.62	Sst gry vf-fgr slty no stn no flor	CMS-300
5H	13075.0	8.36	7.08	12.3	2.62	Sst gry vf-mgr vslty no stn no flor	CMS-300
1V	13064.0	0.113	0.0642	3.7	2.66	Sst gry vf-fgr vslty no stn no flor	CMS-300
2V	13065.5	37.4	33.4	12.8	2.61	Sst gry vf-gran slty no stn no flor	CMS-300
3V	13067.0	28.4	25.0	13.8	2.62	Sst gry vf-gran slty no stn no flor	CMS-300
4V	13073.0	6.84	5.68	11.7	2.62	Sst gry vf-fgr slty no stn no flor	CMS-300
5V	13075.0	8.06	6.53	12.6	2.62	Sst gry vf-mgr vslty no stn no flor	CMS-300

He : Boyles Law grain and pore volume w/ Helium
USS : Unsteady-state (pressure-decay) permeability to air

Sleeve Seating Pressure : NA
Confining (OB) Pressure : 800 psig


Perm vs Porosity
100.000
10.000
1.000
0.100
0.010
Permeability md
0.0
2.0
4.0
6.0
8.0
10.0
12.0
14.0
16.0
Porosity %
Horiz.
Vert


Horiz. vs Vert Ka
100.00
10.00
1.00
0.10
0.01
Vert. Ka
0.01
0.10
1.00
10.00
100.00
Horiz Ka
Perm


Porosity
16.0
12.0
8.0
4.0
0.0
Vert. Porosity (%)
0.0
4.0
8.0
12.0
16.0
Horiz. Porosity (%)
Porosity

Core Lab

Forest Oil Co.
Redoubt Shoals 29690#1
Redoubt Shoals Field

CL Bak. : 57111-0104020-FO
CL Brou. : 50511-040130-1

X-Ray Diffraction Data

	Bulk Mineralogy (%)																Clay Mineralogy (%)					
Depth (ft)	Quartz	Plagioclase	K-Feldspars	Calcite	Dolomite	Siderite	Ankerite	Clinoptilolite	Analcime	Gypsum	Anhydrite	Barite**	Halite	Pyrite	Hematite	Total Clay	Kaolinite	Chlorite	Illite	Smectite	MXL I/S*	% Smectite in MXL
13064	49	9	10	23	0	0	0	0	0	0	0	0	0	0	0	9	2	1	2	0	4	50-60
13065	66	13	4	1	0	0	0	0	0	0	0	0	0	0	0	17	4	3	4	0	6	70-80
13067	76	7	6	0	Tr	0	0	0	0	0	0	0	0	0	0	12	3	2	2	0	5	60-70
13,074-75	74	6	8	Tr	1	0	0	0	0	0	0	0	0	0	0	11	3	2	2	0	4	>90
13,075-76	73	8	7	0	0	0	0	0	0	0	0	0	0	0	0	12	3	2	2	0	5	80-90

Tr = Trace (<1%)

*MXL IS = Mixed-layer illite-smectite

**Drilling mud contamination