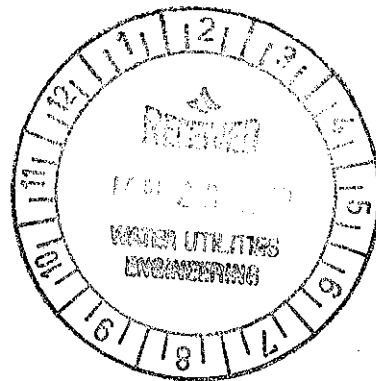


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CORE ANALYSIS REPORT
FOR
INTEGRITY WELL & PUMP
EASTERN HILLSBORO FAMW-1
EASTERN HILLSBORO FIELD
PALM BEACH COUNTY, FLORIDA



CORE LABORATORIES



CORE ANALYSIS REPORT
FOR
INTEGRITY WELL & PUMP
EASTERN HILLSBORO FAMW-1
EASTERN HILLSBORO FIELD
PALM BEACH COUNTY, FLORIDA

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January 23, 2002

PALM BEACH COUNTY WATER UTILITIES DEPARTMENT
2065 Prairie Road
West Palm Beach, Florida 33406

File No.: 57181-18448
Subject: Core Analysis
Integrity Well & Pump
Eastern Hillsboro FAMW-1
Eastern Hillsboro Field
Palm Beach County, Florida

Gentlemen:

The subject well was cored using diamond coring equipment and drilling fluid to obtain 4 inch diameter cores from 981 to 1385 feet from the Floridian formation.

Core analysis data is presented in tabular and graphical form for your convenience. A porosity vs. permeability plot was prepared for statistical evaluation. Core analysis data is contained on a 3 1/2 inch computer diskette.

We trust these data will be useful in the evaluation of your property and thank you for the opportunity of serving you.

Very truly yours,

CORE LABORATORIES, INC.

A handwritten signature in black ink, appearing to read "John Sebian", written in a cursive style.

John Sebian
Laboratory Supervisor

JS/ym

INTEGRITY WELL & PUMP
Eastern Hillsboro FAMW-1
File No. 57181-18448
Procedural Page

The cores were preserved at the wellsite and transported to Midland by Integrity Well & Pump personnel.

Core analysis was made on selected intervals requested on full diameter samples.

Fluid removal was achieved using a controlled convection oven drying.

Water moisture content percent of pore space was calculated using a gravimetric technique.

Full diameter porosity was determined by direct pore volume measurement using Boyle's law helium expansion. Bulk volume was measured by Archimedes Principle. Grain density was calculated from dry weight, bulk volume and pore volume measurements.

$$\text{Grain Density} = \frac{\text{Dry Weight}}{\text{Bulk Vol.} - \text{Pore Vol.}}$$

Steady State Air Permeability was measured in two horizontal directions and vertically while the core was confined in a Hassler rubber sleeve.

The core was boxed after analysis.

The core was shipped to Core Laboratories in Houston, Texas upon completion of analysis for further testing.

CORE LABORATORIES

Company : INTEGRITY WELL & PUMP
 Well : EASTERN HILLSBORO FAMW-1
 Location :
 Co,State : PALM BEACH COUNTY, FLORIDA

Field : EASTERN HILLSBORO
 Formation : FLORIDIAN
 Coring Fluid :
 Elevation :

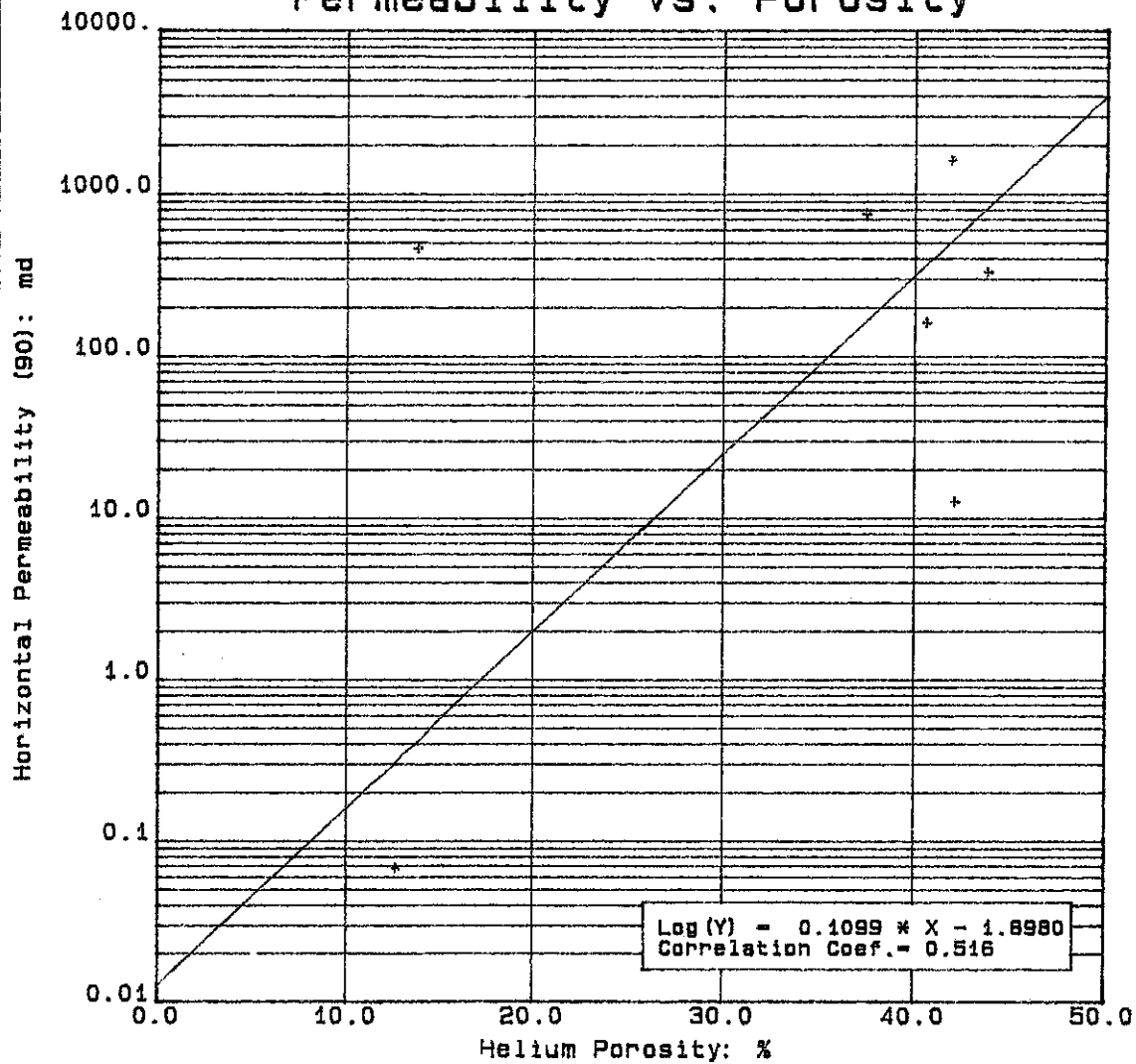
File No.: 57181-18448
 Date : 1-10-02
 API No. :
 Analysts: SEBIAN

CORE ANALYSIS RESULTS

SAMPLE NUMBER	DEPTH ft	PERMEABILITY			POROSITY (HELIUM) %	GRAIN DENSITY gm/cc	MOISTURE CONTENT %	DESCRIPTION
		(MAXIMUM) Kair md	(90 DEG) Kair md	(VERTICAL) Kair md				
1	1384.0- 85.0	1594.	1594.	1563.	41.9	2.72	4.1	Lim, tan, sli/vert frac, pp, foss
2	1355.0- 55.8	337.	325.	280.	43.8	2.71	3.7	Lim, tan, pp, foss
3	1304.3- 05.0	747.	747.	327.	37.4	2.73	3.7	Lim, tan, pp, foss
4	1165.5- 66.2	12.6	12.4	7.89	42.1	2.74	7.7	Lim, tan, pp, foss
* 5	1143.0- 43.8				41.8	2.71	15.9	TBFA, Lim, white, chalky
* 6	1117.0- 17.5				41.8	2.71	16.1	TBFA, Lim, white, chalky
* 7	1093.0- 94.0	1545.		591.	42.7	2.71	14.4	TBFA, Lim, white, chalky
8	1044.0- 45.0	0.08	0.07	0.09	12.6	2.71	16.9	Lim, gray, sli/sdy, vug, foss
9	1008.0- 08.5	526.	458.	1598.	13.7	2.73	23.4	Lim, gray, sli/sdy, vug, foss
* 10	981.0- 82.0	1212.			31.7	2.76	16.8	TBFA, Lim, white-black, v/sdy, chalky
11	1306.0- 07.0	168.	159.	135.	40.6	2.71	4.8	Lim, tan, pp, foss

* SAMPLE NUMBERS 5, 6, 7 & 10 WERE BROKEN DURING ANALYSIS

Permeability vs. Porosity



INTEGRITY WELL & PUMP

EASTERN HILLSBORO FAMW-1
EASTERN HILLSBORO FIELD

FLORIDIAN (981-1385 feet)

Core Laboratories

1-10-02

- LEGEND -
FLORIDIAN

CORE LABORATORIES

Company : INTEGRITY WELL & PUMP
 Well : EASTERN HILLSBORO FAMW-1

Field : EASTERN HILLSBORO
 Formation : FLORIDIAN

File No.: 57181-18448
 Date : 1-10-02

TABLE I

SUMMARY OF CORE DATA

ZONE AND CUTOFF DATA	CHARACTERISTICS REMAINING AFTER CUTOFFS
ZONE:	PERMEABILITY:
Identification ----- FLORIDIAN	Number of Samples ----- 11
Top Depth ----- 981.0 ft	Thickness Represented - 9.0 ft
Bottom Depth ----- 1385.0 ft	
Number of Samples ----- 11	
DATA TYPE:	POROSITY:
Porosity ----- (HELIUM)	Storage Capacity ----- 321.4 ϕ -ft
Permeability ----- (90 DEG) Kair	Arithmetic Average ---- 35.7 %
	Minimum ----- 12.6 %
	Maximum ----- 43.8 %
	Median ----- 41.8 %
	Standard Deviation ---- ± 11.5 %
CUTOFFS:	GRAIN DENSITY:
Porosity (Minimum) ----- 0.0 %	Arithmetic Average ---- 2.72 gm/cc
Porosity (Maximum) ----- 100.0 %	Minimum ----- 2.71 gm/cc
Permeability (Minimum) --- 0.0100 md	Maximum ----- 2.76 gm/cc
Permeability (Maximum) --- 10000. md	Median ----- 2.71 gm/cc
Water Saturation (Maximum)	Standard Deviation ---- ± 0.02 gm/cc
Oil Saturation (Minimum) -	
Grain Density (Minimum) -- 2.00 gm/cc	
Grain Density (Maximum) -- 3.00 gm/cc	
Lithology Excluded ----- NONE	
	HETEROGENEITY (Permeability):
	Dykstra-Parsons Var. -- 0.896
	Lorenz Coefficient ---- 0.579
	AVERAGE SATURATIONS (Pore Volume):
	Oil -----
	Water -----



LITHOLOGICAL ABBREVIATIONS

Anhy, anhy	Anhydrite (-ic)	Lim, lim	limestone
Ark, ark	arkos (-ic)	med gr	medium grain
bnd	band (-ed)	Mtrx	matrix
brec	breccia	NA	interval not analyzed
Calc, calc	calcite (-ic)	Nod, nod	nodules (-ar)
carb	carbonaceous	Ool, ool	oolite (-itic)
crs gr	course grained	Piso, piso	pisolite (-itic)
Chk, chky	chalk (-y)	pp	pin-point (porosity)
Cht, cht	chert (-y)	Pyr, pyr	pyrite (-itized, itic)
Cgl, cgl	conglomerate (-ic)	Sd, sdy	sand (-y)
crs xln	coarsely crystalline	Shr	solid hydrocarbon residue
dns	dense	sli/	slightly
Dol, dol	dolomite (-ic)	Sltstn, slty	siltstone, silty
Frac	randomly oriented fractures	styl	stylolite (-itic)
frac	slightly fractured	suc	sucrosic
f gr	fine grained	Su, su	sulphur, sulphurous
foss	fossil (-iferous)	TBFA	TOO BROKEN FOR ANALYSIS
f xln	finely crystalline	Trip, trip	tripolitic
Gil, gil	gilsonite	v/	very
Glauc, clauc	glauconite (-itic)	vert frac	perdominantly vertically fractured
Grt	granite	vug	vuggy
Gyp, gyp	gypsum (-iferous)	xbd	crossbedded
hor frac	perdominantly horizontally fractured	xln	medium crystalline
incl	inclusion (-ded)	xtl	crystal
intbd	interbedded		
lam	lamina (-tions, -ated)		

THE FIRST WORD IN THE DESCRIPTION COLUMN OF THE CORE ANALYSIS REPORT DESCRIBES THE ROCK TYPE. FOLLOWING ARE ROCK MODIFIERS IN DECREASING ABUNDANCE AND MISCELLANEOUS DESCRIPTIVE TERMS.

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