

~~18-23-30W~~ 18-23-30W

CORE ANALYSIS RESULTS

for

Sharon Resources, Inc.

Ramsey No. 18-1 Well
Wildcat
Finney County, Kansas
File Number: 57121-8154

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CORE LABORATORIES

Company : Sharon Resources, Inc.
 Well : Ramsey No. 18-1
 Location : NE NE Sec. 18 T23S R30W
 Co, State : Finney County, Kansas

Field : Wildcat
 Formation : St. Louis
 Coring Fluid : Chem Monpac
 Elevation : 2847 KB

File No.: 57121-8154
 Date : 10-Feb-1988
 API No.:
 Analysts: JS MW DS FD

C O R E A N A L Y S I S R E S U L T S

SAMPLE NUMBER	DEPTH ft	PERMEABILITY (HORIZONTAL) K _{air} md	POROSITY (HELIUM) %	SATURATION		GRAIN DENSITY gm/cc	FRACTURE TYPE	DESCRIPTION
				(PORE VOLUME) OIL %	WATER %			
Core No. 1 St. Louis Formation 4792.0-4821.3								
1	4792.0- 93.0	0.02	2.4	0.0	34.7	2.70		Ls lt gry f xln aren
2	4793.0- 94.0	0.01	1.5	0.0	38.3	2.71		Ls lt gry f xln aren
3	4794.0- 95.0	<.01	0.8	0.0	44.2	2.70		Ls lt gry f xln aren
4	4795.0- 96.0	<.01	1.4	0.0	37.7	2.70		Ls lt gry f xln aren
5	4796.0- 97.0	<.01	0.8	0.0	47.6	2.71	Vertical	Ls lt gry f xln aren
6	4797.0- 98.0	<.01	1.8	0.0	63.5	2.69	Vertical	Ls lt gry f xln aren
7	4798.0- 99.0	<.01	1.3	0.0	38.8	2.70		Ls lt gry f xln aren
8	4799.0- 00.0	<.01	2.1	0.0	32.1	2.71		Ls lt gry f xln aren
9	4800.0- 01.0	<.01	0.3	0.0	39.6	2.70	Vertical	Ls lt gry f xln cht
10	4801.0- 02.0	<.01	0.5	0.0	51.2	2.70	Vertical	Ls lt gry f xln
11	4802.0- 03.0	<.01	1.1	0.0	51.8	2.71		Ls lt gry gry f xln arg
12	4803.0- 04.0	0.05	1.5	0.0	57.0	2.72	Vertical	Ls lt gry gry f xln arg
13	4804.0- 05.0	<.01	0.5	0.0	58.5	2.70		Ls lt gry gry f xln arg
14	4805.0- 06.0	<.01	1.0	0.0	71.5	2.71		Ls lt gry f xln
15	4806.0- 07.0	<.01	2.1	0.0	72.6	2.71		Ls lt gry f xln
16	4807.0- 08.0	0.02	4.7	0.0	45.9	2.70		Ls lt gry f xln cht
17	4808.0- 09.0	0.03	4.3	20.5	32.4	2.70	Vertical	Ls lt gry f xln ool
18	4809.0- 10.0	2415.	22.5	12.4	48.3	2.70	Vertical	Ls lt gry f-med ool
19	4810.0- 11.0	3.54	7.6	7.8	55.9	2.70		Ls lt gry f-med xln ool p.p. vugs
20	4811.0- 12.0	5.23	11.1	6.0	55.5	2.70		Ls lt gry f-med xln ool p.p. vugs
21	4812.0- 13.0	4.51	9.4	11.0	42.1	2.70		Ls lt gry f-med xln ool p.p. vugs
22	4813.0- 14.0	0.07	6.0	9.0	45.9	2.70	Vertical	Ls lt gry f-med xln ool p.p. vugs
23	4814.0- 15.0	<.01	2.4	0.0	51.9	2.70		Ls lt gry f xln ool

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SAMPLE NUMBER	DEPTH ft	PERMEABILITY (HORIZONTAL) K _{air} md	POROSITY (HELIUM) %	SATURATION		GRAIN DENSITY gm/cc	FRACTURE TYPE	DESCRIPTION
				(PORE VOLUME) OIL %	WATER %			
24	4815.0- 16.0	<.01	1.5	0.0	45.3	2.70		Ls lt gry f xln ool
25	4816.0- 17.0	<.01	1.1	0.0	49.1	2.70	Vertical	Ls lt gry f xln
26	4817.0- 18.0	<.01	1.3	0.0	52.2	2.70	Vertical	Ls lt gry f xln
27	4818.0- 19.0	0.01	4.0	0.0	73.9	2.69	Vertical	Ls lt gry f xln cht
28	4819.0- 20.0	<.01	1.5	0.0	42.0	2.70	Vertical	Ls lt gry f xln
29	4820.0- 21.0	<.01	1.1	0.0	32.6	2.70		Ls lt gry f xln

* Denotes Permeability measured along Fracture

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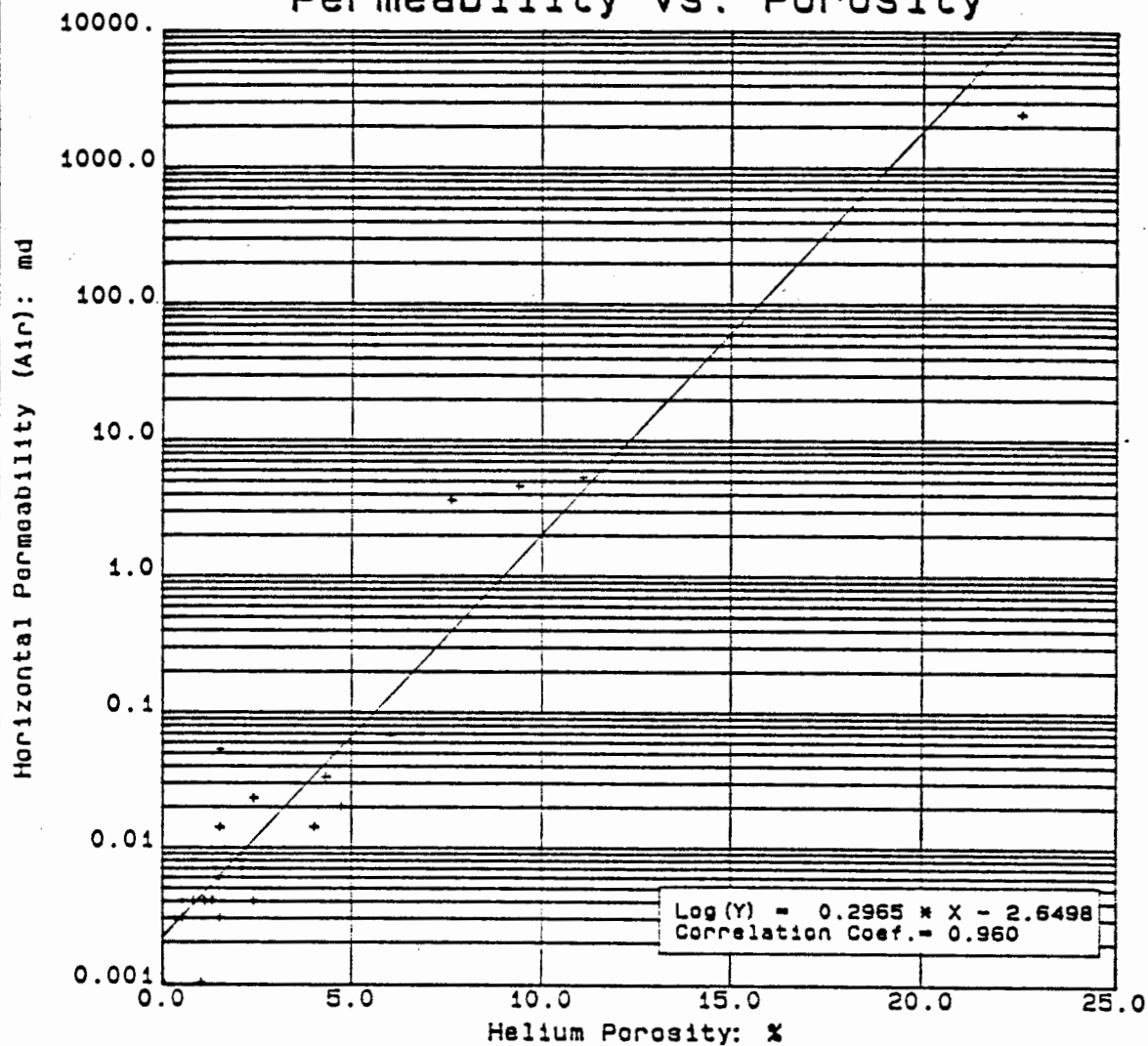
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TABLE I
SUMMARY OF CORE DATA

ZONE AND CUTOFF DATA CHARACTERISTICS REMAINING AFTER CUTOFFS

ZONE:		ZONE:		PERMEABILITY:	
Identification	NOT SPECIFIED	Number of Samples	29	Flow Capacity	2428.5 md-ft
Top Depth	4791.0 ft	Thickness Represented	29.0 ft	Arithmetic Average	83.7 md
Bottom Depth	4821.0 ft	POROSITY:		Geometric Average	0.02 md
Number of Samples	29	Storage Capacity	97.5 ϕ -ft	Harmonic Average	0.01 md
DATA TYPE:		Arithmetic Average	3.4 %	Minimum	0.00 md
Porosity	(HELIUM)	Minimum	0.3 %	Maximum	2415. md
Permeability	(HORIZONTAL) Kair	Maximum	22.5 %	Median	0.01 md
CUTOFFS:		Median	1.5 %	Standard Dev. (Geom)	K-10 ^{1.353} md
Porosity (Minimum)	0.0 %	Standard Deviation	± 4.6 %	HETEROGENEITY (Permeability):	
Porosity (Maximum)	100.0 %	GRAIN DENSITY:		Dykstra-Parsons Var.	0.603
Permeability (Minimum)	0.0000 md	Arithmetic Average	2.70 gm/cc	Lorenz Coefficient	0.840
Permeability (Maximum)	100000. md	Minimum	2.69 gm/cc	AVERAGE SATURATIONS (Pore Volume):	
Water Saturation (Maximum)	100.0 %	Maximum	2.72 gm/cc	Oil	6.7 %
Oil Saturation (Minimum)	0.0 %	Median	2.70 gm/cc	Water	49.1 %
Grain Density (Minimum)	2.00 gm/cc	Standard Deviation	± 0.01 gm/cc		
Grain Density (Maximum)	3.00 gm/cc				
Lithology Excluded	NONE				

Permeability vs. Porosity

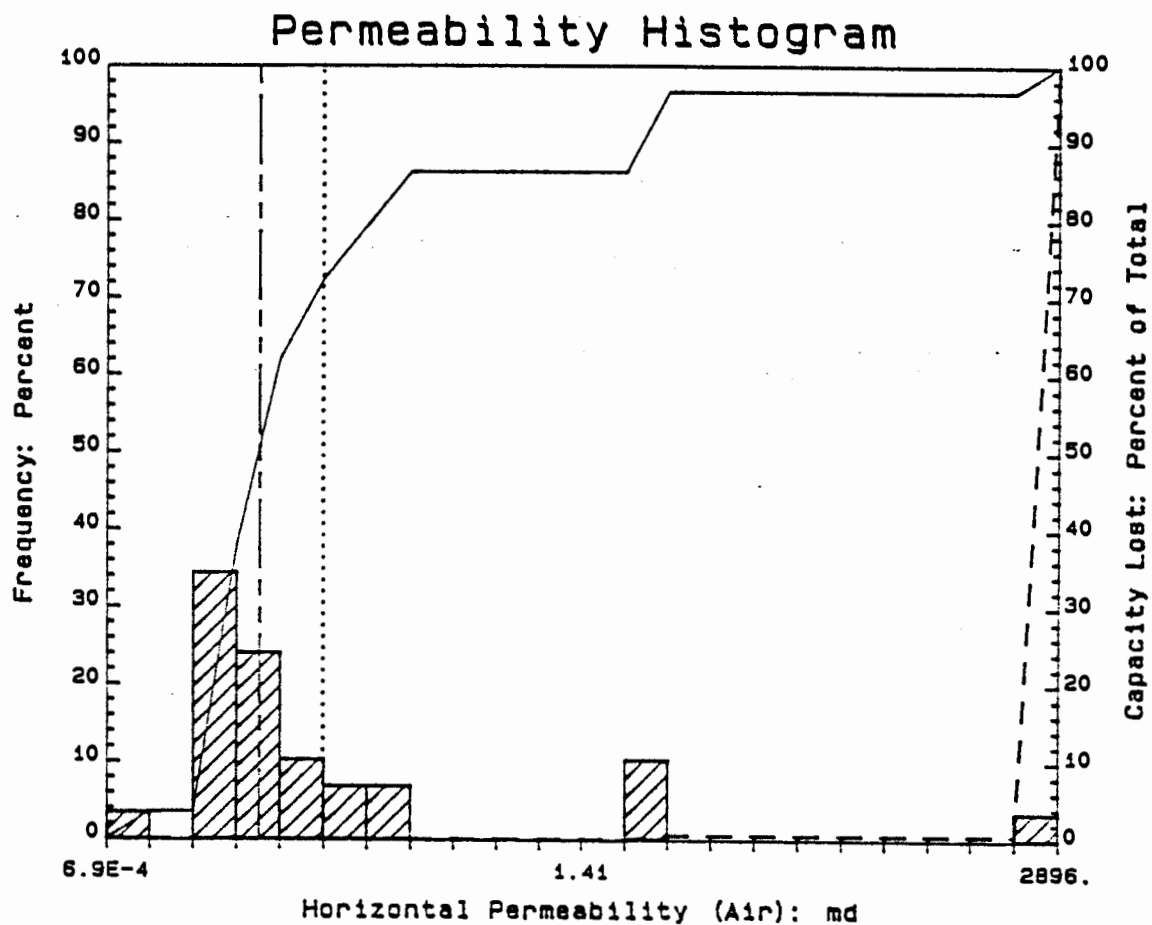


Sharon Resources, Inc.
Ramsey No. 18-1
Wildcat
Finney County, Kansas
St. Louis Fm. (4792.0-4821.3 feet)

Core Laboratories

7-Feb-1988

- LEGEND -
St. Louis



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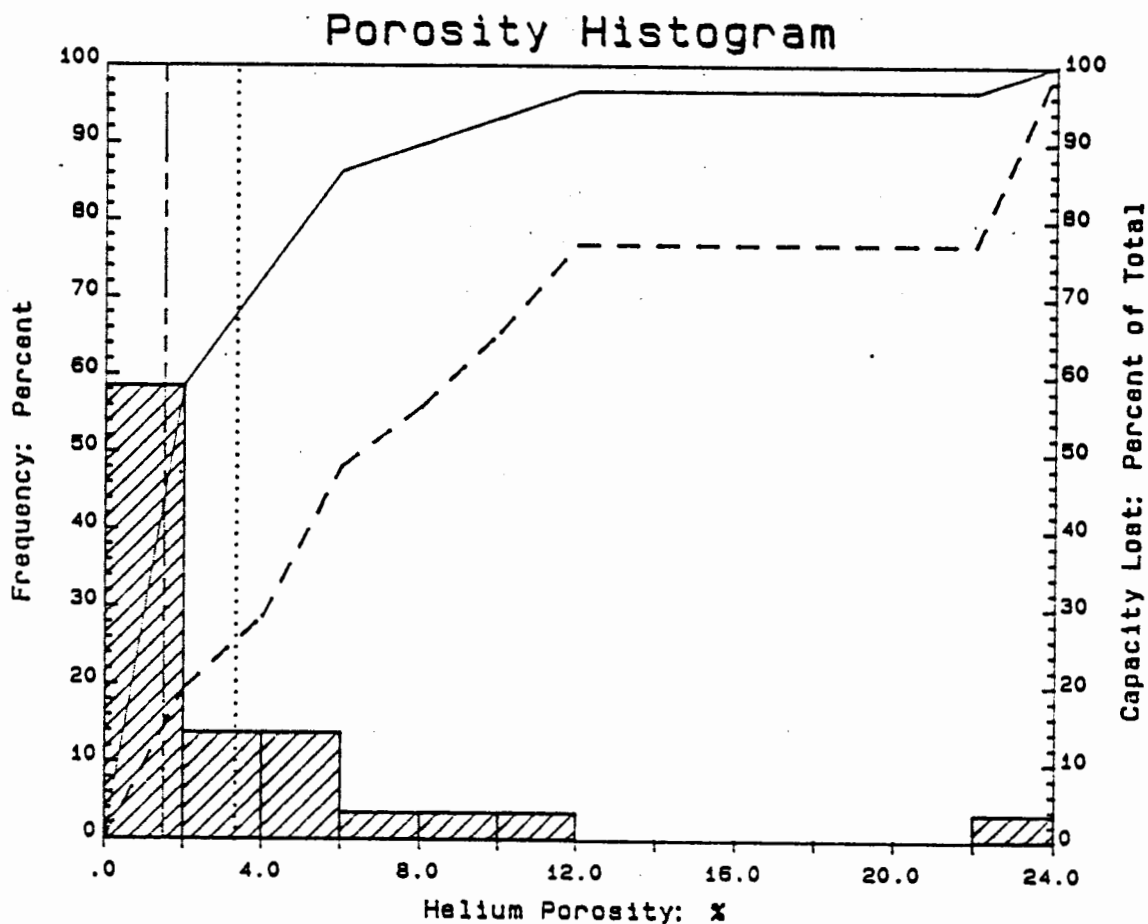
Core Laboratories

7-Feb-1988

- LEGEND -

- Median Value (0.008)
- Geom. Average (0.022)
- Cumulative Frequency
- - - Cumulative Capacity Lost

29 Samples



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- LEGEND -

- Median Value (1.5)
- Arith. Average (3.4)
- Cumulative Frequency
- - - Cumulative Capacity Lost

29 Samples

CORE LAB (EPTH PLOT

Sharon Resources, Inc.

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Finney County, Kansas

St. Louis Fm. (4792.0-4821.3 feet)

Core Laboratories

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Vertical Scale
5.00 in = 100.0 ft

- Lithology Legend -



Limestone

