

OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS 66720 - PHONE (316) 431-2650

February 24, 1981

Sand Creek Production Company
Box 960
Bristow, Oklahoma 74010

Gentlemen:

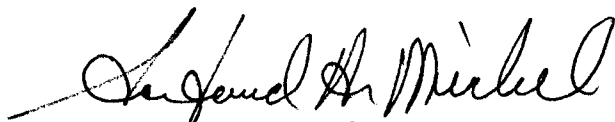
Enclosed herewith are the results of tests run on the rotary core taken from the "A" Morton Lease, Well No. 12, located in Wilson County, Kansas.

The core was sampled and sealed in plastic bags by a representative of the client and was submitted to our laboratory on February 16, 1981.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

A handwritten signature in cursive script, reading "Sanford A. Michel". The signature is written in dark ink and is positioned above the printed name.

Sanford A. Michel

SAM/kas

5 c to Bristow, Oklahoma

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Sand Creek Production Co. Lease "A" Morton Well No. 12
 Location 2410' FSL & 530' FEL
 Section 13 Twp. 28S Rge. 15E County Wilson State Kansas

Elevation, Feet	-
Name of Sand	Bartlesville
Top of Core	1012.0
Bottom of Core	1030.3
Top of Sand	1012.0
Bottom of Sand	1030.3
Total Feet of Permeable Sand	13.7

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 2	3.1	3.1
2 - 4	3.9	7.0
4 - 6	1.0	8.0
6 - 12	4.9	12.9
20 & Above	0.8	13.7

Average Permeability Millidarcys	5.6
Average Percent Porosity	14.8
Average Percent Oil Saturation	32.2
Average Percent Water Saturation	40.0
Average Oil Content, Bbls./A. Ft.	367.
Total Oil Content, Bbls./Acre	6,714.

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LOGName Sand Creek Production Co. Lease "A" Morton Well No. 12

<u>Depth Interval, Feet</u>	<u>Description</u>
1012.0 - 1013.4	Brown shaly sandstone.
1013.4 - 1015.1	Light brown sandstone.
1015.1 - 1016.3	Brown and gray laminated sandstone and shale.
1016.3 - 1017.0	Light brown sandstone.
1017.0 - 1018.9	Light brown and gray laminated sandstone and shale.
1018.9 - 1022.5	Brown shaly sandstone.
1022.5 - 1023.3	Brown sandstone.
1023.3 - 1030.3	Light brown and gray laminated sandstone and shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	1012.4	17.4	30	42	72	405	2.4	1.4	1.4	567	3.36
2	1013.7	18.4	23	49	72	328	11.	1.0	2.4	328	11.00
3	1014.6	14.8	22	33	55	253	11.	0.7	3.1	177	7.70
4	1015.5	13.9	40	33	73	431	6.0	1.2	4.3	517	7.20
5	1016.5	15.8	28	46	74	343	10.	1.0	5.3	343	10.00
6	1017.5	12.3	22	72	94	210	Imp.	1.0	6.3	210	0.00
7	1018.5	10.6	45	47	92	370	Imp.	0.6	6.9	222	0.00
8	1019.4	14.6	45	24	69	510	2.1	1.5	8.4	765	3.15
9	1020.5	15.3	26	39	65	309	1.7	1.0	9.4	309	1.70
10	1021.5	14.7	36	46	82	411	1.1	1.1	10.5	452	1.21
11	1022.7	18.0	36	30	66	503	21.	0.8	11.3	402	16.80
12	1023.6	16.1	39	32	71	487	6.3	1.0	12.3	487	6.30
13	1024.7	12.1	11	72	93	103	Imp.	1.0	13.3	103	0.00
14	1025.5	12.4	24	39	63	231	Imp.	1.0	14.3	231	0.00
15	1026.4	8.5	50	47	97	330	Imp.	1.0	15.3	330	0.00
16	1027.5	15.9	39	27	66	481	3.1	1.0	16.3	481	3.10
17	1028.7	15.4	28	24	52	335	4.3	1.0	17.3	335	4.30
18	1029.5	18.9	31	25	56	455	1.5	1.0	18.3	455	1.50

Company Sand Creek Production Company Lease "A" Morton Well No. 12

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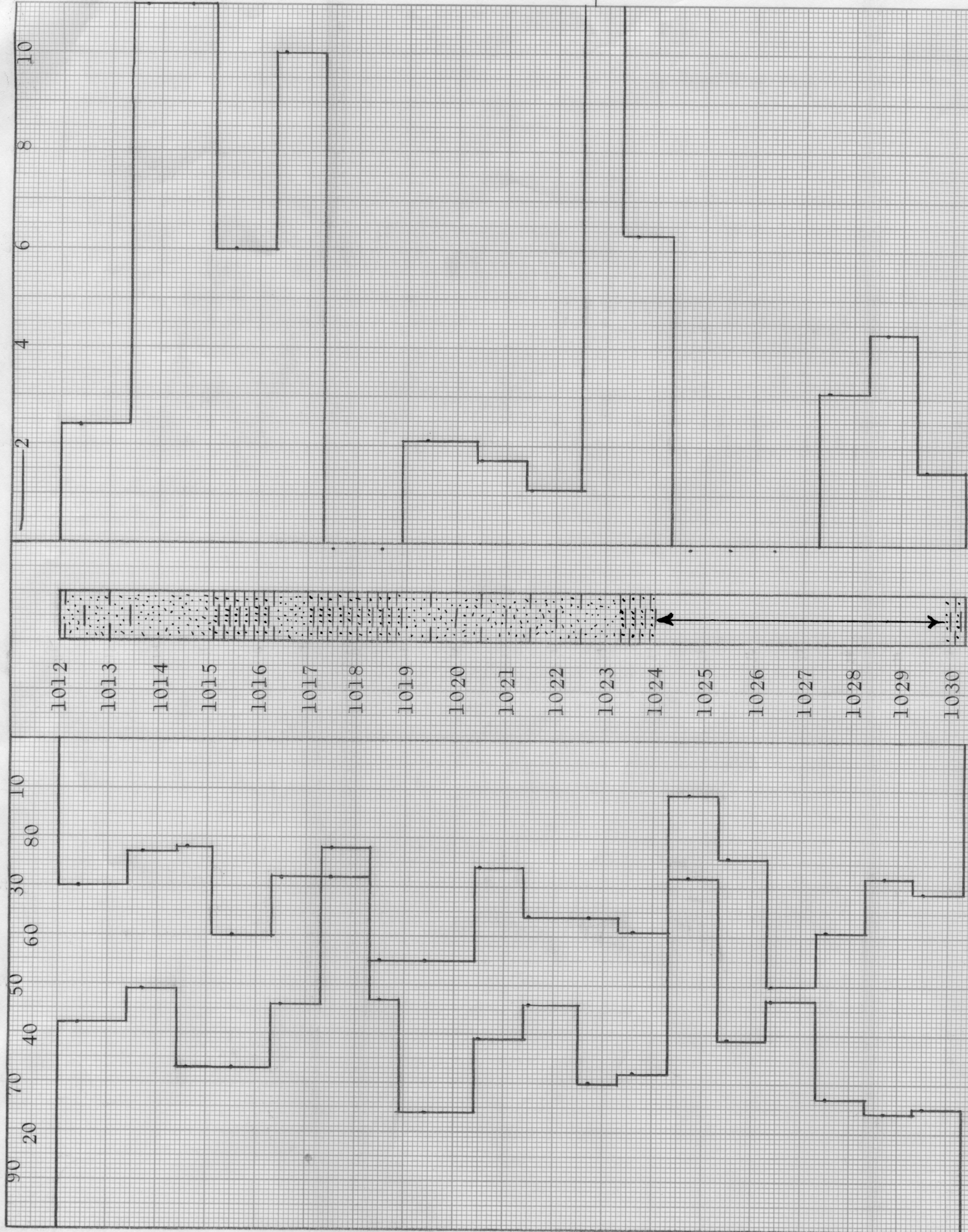
SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Sand Creek Production Co.	Lease	"A" Morton	Well No.	12	
	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
	1012.0 - 1030.3	13.7	5.6	77.32		
	Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Total Oil Content Bbls./Acre
	1012.0 - 1030.3	18.3	14.8	32.2	40.0	367
	1012.0 - 1030.3	18.3	14.8	32.2	40.0	6,714

WATER SAT.,
PERCENT

PERMEABILITY, IN MILLIDARCYS



KEY:



SANDSTONE



SHALY SANDSTONE



LAMINATED SANDSTONE AND SHALE

SAND CREEK PRODUCTION COMPANY

"A" MORTON LEASE

WELL NO. 12

WILSON COUNTY, KANSAS

DEPTH INTERVAL,
FEET

AVERAGE
PERCENT
POROSITY

AVG. OIL
SATURATION
PERCENT

AVG. WATER
SATURATION
PERCENT

AVERAGE
PERMEABILITY,
MILLIDARCS

1012.0 - 1030.3

18.3

14.8

32.2

40.0

5.6

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CHANUTE, KANSAS
FEBRUARY, 1981

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