

OILFIELD RESEARCH LABORATORIES

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October 22, 1980

Samson Oil Company
842 One Energy Square
Dallas, Texas 75206

Gentlemen:

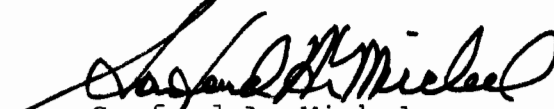
Enclosed herewith are the results of tests run on the rotary core taken from the Fuhr Lease, Well No. 2, located in Leavenworth County, Kansas and submitted to our laboratory on August 25, 1980.

The core was sampled and sealed in plastic bags by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Sanford A. Michel

SAM/ks

6 c to Dallas, Texas

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GENERAL INFORMATION & SUMMARY

Company Samson Oil Company Lease Fuhr Well No. 2
 Location 990' FNL & 2310' FWL
 Section 3 Twp. 9S Rge. ~~10E~~ 20E County Leavenworth State Kansas

Elevation, Feet	-
Name of Sand	Mc Louth
Top of Core	1443.0
Bottom of Core	1480.0
Top of Sand	1451.8
Bottom of Sand (Tested)	1478.0
Total Feet of Permeable Sand	17.9

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 20	8.9	8.9
20 - 30	1.1	10.0
100 - 1000	3.3	13.3
1000 - 2000	2.6	15.9
2000 & Over	2.0	17.9

Average Permeability Millidarcys	596.8
Average Percent Porosity	16.2
Average Percent Oil Saturation	21.7
Average Percent Water Saturation	38.1
Average Oil Content, Bbls./A. Ft.	290.
Total Oil Content, Bbls./Acre	7314.

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LOGName Samson Oil Company Lease Fuhr Well No. 2

<u>Depth Interval, Feet</u>	<u>Description</u>
1443.0 - 1451.8	Gray sandy shale.
1451.8 - 1463.0	Grayish brown very shaly sandstone.
1463.0 - 1463.3	Coal.
1463.3 - 1464.2	Grayish brown slightly calcareous shaly sandstone.
1464.2 - 1465.3	Brown slightly calcareous sandstone.
1465.3 - 1467.8	Brown and gray laminated slightly calcareous sandstone and shale.
1467.8 - 1472.1	Dark brown slightly calcareous sandstone.
1472.1 - 1476.7	Brown and gray laminated slightly calcareous sandstone and shale.
1476.7 - 1477.4	Gray shale.
1477.4 - 1478.0	Brown very shaly sandstone.
1478.0 - 1480.0	Gray and brown laminated shale and sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Samson Oil Company Lease Fuhr Well No. 2

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation		Oil Content Bbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water			Ft.	Cum. Ft.		
1	1452.5	12.6	10	51	98	Imp.	1.0	1.0	98	0.00
2	1453.5	9.5	14	59	103	3.1	1.0	2.0	103	3.10
3	1454.4	11.9	19	46	175	Imp.	1.0	3.0	175	0.00
4	1455.3	11.4	24	52	212	Imp.	0.7	3.7	148	0.00
5	1455.9	9.1	17	58	120	Imp.	0.7	4.4	84	0.00
6	1456.5	8.8	15	78	102	Imp.	1.0	5.4	102	0.00
7	1457.5	11.9	26	11	240	0.18	1.0	6.4	240	0.18
8	1458.6	12.3	10	50	95	0.45	1.0	7.4	95	0.45
9	1459.4	14.2	18	21	198	1.3	1.0	8.4	198	1.30
10	1460.5	14.6	7	42	79	1.1	1.0	9.4	79	1.10
11	1461.5	10.7	17	48	141	Imp.	0.9	10.3	127	0.00
12	1462.5	12.0	12	36	112	1.1	0.9	11.2	101	0.99
13	1463.5	13.8	12	47	129	0.47	0.9	12.1	116	0.42
14	1464.5	13.3	17	47	175	27.	1.1	13.2	193	29.70
15	1465.5	16.2	25	35	314	Imp.	1.0	14.2	314	0.00
16	1466.5	15.1	24	48	281	5.1	0.9	15.1	253	4.59
17	1467.5	14.9	36	32	416	1.3	0.6	15.7	250	0.78
18	1468.4	25.5	20	38	396	2453.	1.0	16.7	396	2453.00
19	1469.5	24.7	25	26	479	1703.	1.0	17.7	479	1703.00
20	1470.5	23.4	24	18	436	2044.	1.0	18.7	436	2044.00
21	1471.5	20.4	30	30	475	929.	1.3	20.0	618	1207.70
22	1472.5	21.7	33	47	556	573.	1.0	21.0	556	573.00
23	1473.4	23.1	26	28	446	192.	1.0	22.0	446	192.00
24	1474.4	18.6	35	23	505	Imp.	1.0	23.0	505	0.00
25	1475.6	30.0	29	17	675	1426.	0.8	23.8	540	1140.80
26	1476.5	21.2	30	28	493	1657.	0.8	24.6	394	1325.60
27	1477.6	13.4	43	5	447	0.23	0.6	25.2	268	0.14

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Samson Oil Company	Lease	Fuhr	Well No.	2
	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	
	1451.8 - 1467.8	9.4	4.5	42.61	
	1467.8 - 1478.0	8.5	1251.7	10,639.24	
	1451.8 - 1478.0	17.9	596.8	10,681.85	

	Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
	1451.8 - 1467.8	15.7	12.5	17.3	44.7	170	2,676
	1467.8 - 1478.0	9.5	22.4	29.0	27.2	488	4,638
	1451.8 - 1478.0	25.2	16.2	21.7	38.1	290	7,314