



OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS - PHONE HE1-2650

700 NORTH MISSION - OKMULGEE, OKLAHOMA - PHONE SK6-4444

Chanute, Kansas

August 6, 1965

Monsanto Company
Ninth Floor, 1300 Main Street
Houston, Texas

Attn: Mr. J.E. Teddlie

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the Schaub Lease, Well No. CH-1, Montgomery County, Kansas, and submitted to our laboratory on July 31, 1965.

This core was sampled and the samples sealed in cans by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

BRP:rf

3 c. - Monsanto Company
2 c. - Layton Oil Company
1 c. - H.E. Price

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Monsanto Company Lease Schaub Well No. CH-1

Location SE SW

Section 11 Twp. 33S Rge. 15E County Montgomery State Kansas

Name of Sand	Bartlesville
Top of Core	1095.0
Bottom of Core	1151.0
Top of Sand	1095.0
Bottom of Sand	1045.6
Total Feet of Permeable Sand	37.1
Total Feet of Floodable Sand	

Distribution of Permeable Sand:
Permeability Range
Millidarcys

	Feet	Cum. Ft.
0 - 10	7.0	7.0
10 - 50	9.0	16.0
50 - 100	10.2	26.2
100 - 200	6.6	32.8
200 & above	4.3	37.1

Average Permeability Millidarcys	81.4
Average Percent Porosity	19.2
Average Percent Oil Saturation	34.2
Average Percent Water Saturation	44.4
Average Oil Content, Bbls./A. Ft.	505.
Total Oil Content, Bbls./Acre	19,819.
Average Percent Oil Recovery by Laboratory Flooding Tests	
Average Oil Recovery by Laboratory Flooding Tests, Bbls./A. Ft.	
Total Oil Recovery by Laboratory Flooding Tests, Bbls./Acre	
Total Calculated Oil Recovery, Bbls./Acre	
Packer Setting, Feet	
Viscosity, Centipoises @	
A. P. I. Gravity, degrees @ 60 °F	
Elevation, Feet	

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-LOG-

Company Monsanto Company Lease Schaub Well No. CH-1

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
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1095.0 - 1103.8 - Brown, medium grained sandstone.

1103.8 - 1104.0 - Shale.

1104.0 - 1111.6 - Brown to dark, medium grained, slightly carbonaceous sandstone.

1111.6 - 1118.9 - Brown, medium grained, slightly shaly sandstone.

1118.9 - 1119.0 - Coal.

1119.0 - 1127.6 - Brown, medium grained, slightly shaly sandstone.

1127.6 - 1130.6 - Grayish brown, medium grained, slightly shaly sandstone.

1130.6 - 1151.0 - Gray sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

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	Total			Ft.	Cum. Ft.		
1	1095.1	20.0	34	42	76	526	82.	0.6	316	49.20	
2	1096.1	18.2	41	35	76	579	202.	1.0	579	202.00	
3	1097.1	20.5	42	37	79	667	202.	1.0	667	202.00	
4	1098.1	19.6	46	33	79	699	131.	1.0	699	131.00	
5	1099.1	18.6	42	40	82	605	125.	1.0	605	125.00	
6	1100.1	18.7	43	34	77	624	8.3	1.0	624	8.30	
7	1101.1	19.5	47	29	76	711	26.	1.0	711	26.00	
8	1102.1	18.1	47	37	84	659	54.	1.0	659	54.00	
9	1103.1	18.4	44	29	73	627	Imp.	1.2	753	0.00	
10	1104.1	19.1	39	40	79	578	97.	0.6	346	58.20	
11	1105.1	17.9	46	42	88	639	Imp.	1.0	639	0.00	
12	1106.1	19.7	46	35	81	703	26.	1.0	703	26.00	
13	1107.1	19.0	45	34	79	663	7.2	1.0	663	7.20	
14	1108.1	19.4	34	34	68	511	3.9	1.0	511	3.90	
15	1109.1	17.3	38	39	77	509	1.7	1.0	509	1.70	
16	1110.1	18.4	27	43	70	385	0.63	1.0	385	0.63	
17	1111.1	18.6	51	31	82	734	3.6	1.0	734	3.60	
18	1112.1	15.4	38	50	88	453	38.	1.0	453	38.00	
19	1113.1	20.0	27	53	80	419	31.	1.0	419	31.00	
20	1114.1	19.0	32	41	73	471	9.0	1.0	471	9.00	
21	1115.1	18.8	47	35	82	686	22.	1.0	686	22.00	
22	1116.1	18.6	47	38	85	677	71.	1.0	677	71.00	
23	1117.1	19.5	31	45	76	469	23.	1.0	469	23.00	
24	1118.1	20.9	28	57	85	454	202.	1.3	590	262.60	

Company Monsanto Company

Lease Schaub

Well No. CH-1

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Monsanto Company Lease Schaub Well No. CH-1

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	Total			Ft.	Cum. Ft.		
25	1119.1	20.2	23	60	83	360	168.	0.6	24.3	216	100.80
26	1120.1	20.1	40	40	80	624	135.	1.0	25.3	624	135.00
27	1121.1	19.7	40	38	78	610	92.	1.0	26.3	610	92.00
28	1122.1	19.9	21	40	61	324	117.	1.0	27.3	324	117.00
29	1123.1	21.0	36	35	71	586	72.	1.0	28.3	586	72.00
30	1124.1	17.9	40	44	84	555	70.	1.0	29.3	555	70.00
31	1125.1	19.8	38	40	78	583	151.	1.0	30.3	583	151.00
32	1126.1	19.7	33	43	76	504	184.	1.0	31.3	504	184.00
33	1127.1	20.0	37	35	72	573	70.	1.0	32.3	523	70.00
34	1128.1	19.4	23	43	66	346	46.	1.0	33.3	346	46.00
35	1129.1	18.8	27	44	71	394	88.	1.0	34.3	394	88.00
36	1130.1	19.1	21	50	71	311	56.	1.0	35.3	311	56.00
37	1131.1	17.8	4	86	90	55	20.	1.0	36.3	55	20.00
38	1132.1	18.9	5	77	82	73	62.	1.0	37.3	73	62.00
39	1133.1	18.1	8	78	86	112	50.	1.0	38.3	112	50.00
40	1145.1	24.9	7	89	96	135	346.	1.0	39.3	135	346.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Monsanto Company		Lease	Schaub	Well No.	CH-1
Depth Interval, Feet	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
1095.0 - 1111.6	1095.0 - 1111.6	14.2	63.2	898.73		
1111.6 - 1127.6	1111.6 - 1127.6	15.9	91.0	1,448.40		
1127.6 - 1145.6	1127.6 - 1145.6	7.0	95.4	668.00		
1095.0 - 1145.6	1095.0 - 1145.6	37.1	81.4	3,015.13		
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
1095.0 - 1111.6	16.4	18.8	42.1	35.8	616	10,103
1111.6 - 1127.6	15.9	19.4	35.0	43.2	521	8,290
1127.6 - 1145.6	7.0	19.6	13.6	66.6	204	1,426
1095.0 - 1145.6	39.3	19.2	34.2	44.4	505	19,819