

OILFIELD RESEARCH LABORATORIES

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

July 7, 1980

Stich Oil Company
Box 132
Rural Route 1
Chanute, Kansas 66720

Gentlemen:

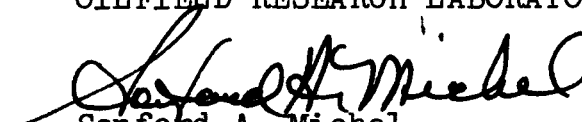
Enclosed herewith are the results of tests run on the rotary core taken from the Stich Lease, Well No. 2, Chautauqua County, Kansas, and submitted to our laboratory on June 20, 1980.

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/tem

5 c to Chanute, Kansas

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GENERAL INFORMATION & SUMMARY

Company Stich Oil Company Lease Stich Well No. 2
 Location 251' S & 165' E NW $\frac{1}{4}$
 Section 22 Twp. 32S Rge. 12E County Chautauqua State Kansas

Elevation, Feet

Name of Sand	Peru
Top of Core	1172.0
Bottom of Core	1193.0
Top of Sand	1172.0
Bottom of Sand	1193.0
Total Feet of Permeable Sand	19.0

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 1	4.0	4.0
1 - 10	6.9	10.9
15 - 20	2.8	13.7
20 - 30	4.3	18.0
30 & Above	1.0	19.0

Average Permeability Millidarcys	11.2
Average Percent Porosity	15.5
Average Percent Oil Saturation	21.7
Average Percent Water Saturation	52.7
Average Oil Content, Bbls./A. Ft.	265.
Total Oil Content, Bbls./Acre	5,572.

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LOGName Stich Oil Company Lease Stich Well No. 2

<u>Depth Interval, Feet</u>	<u>Description</u>
1172.0 - 1173.8	Brown calcareous shaly sandstone.
1173.8 - 1175.0	Brown calcareous sandstone.
1175.0 - 1176.6	Brown calcareous shaly sandstone.
1176.6 - 1177.7	Brown calcareous sandstone.
1177.7 - 1178.8	Brown calcareous shaly sandstone.
1178.8 - 1184.2	Brown calcareous sandstone.
1184.2 - 1185.4	Brown calcareous shaly sandstone.
1185.4 - 1185.8	Brown calcareous sandstone.
1185.8 - 1193.0	Grayish brown shaly slightly calcareous sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Stich Oil Company Lease Stich 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	1172.5	17.1	26	50	76	345	5.0	1.0	345	5.00
2	1173.5	16.2	23	49	72	289	5.4	1.8	231	4.32
3	1174.5	16.6	27	40	67	348	22.	3.0	418	26.40
4	1175.5	13.8	21	50	71	225	3.9	4.0	225	3.90
5	1176.5	12.6	15	67	82	147	4.9	4.6	88	2.94
6	1177.5	16.8	27	41	68	352	20.	5.7	387	22.00
7	1178.5	16.7	36	35	71	466	7.4	6.8	513	8.14
8	1179.5	16.0	16	51	67	199	19.	7.8	199	19.00
9	1180.5	18.9	19	43	62	279	35.	8.8	279	35.00
10	1181.5	16.4	21	52	73	267	22.	9.8	267	22.00
11	1182.5	17.5	32	51	83	434	22.	10.8	434	22.00
12	1183.5	15.7	20	50	70	244	17.	12.2	342	23.80
13	1184.5	16.0	31	44	75	385	4.7	13.4	462	5.64
14	1185.5	18.4	26	43	69	371	16.	13.8	148	6.40
15	1186.5	14.7	22	55	77	251	3.4	15.0	301	4.08
16	1187.5	15.9	3	72	75	37	0.60	16.0	37	0.60
17	1188.5	13.3	9	83	92	93	0.31	17.0	93	0.31
18	1189.5	13.2	13	72	85	133	Imp.	18.0	133	0.00
19	1190.5	10.6	19	78	97	156	Imp.	19.0	156	0.00
20	1191.5	14.3	28	42	70	311	0.25	20.0	311	0.25
21	1192.6	14.5	18	46	64	203	0.29	21.0	203	0.29

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company		Stich Oil Company		Lease	Stich	Well No.	
		Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
		1172.0 - 1185.8	13.8	15.0	206.54		
		1185.8 - 1193.0	5.2	1.1	5.53		
		1172.0 - 1193.0	19.0	11.2	212.07		
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	
1172.0 - 1185.8	13.8	16.4	24.6	47.0	314	4,338	
1185.8 - 1193.0	7.2	13.8	16.2	63.8	171	1,234	
1172.0 - 1193.0	21.0	15.5	21.7	52.7	265	5,572	