



OILFIELD RESEARCH LABORATORIES

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

July 16, 1979

Frank Stich
R.R. 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, Neosho County, Kansas, and submitted to our laboratory on July 10, 1979.

The core was sampled by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Benjamin R. Pearman

BRP:km
5 c to Chanute, Kansas

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Frank Stich Lease Stich Well No. 2

Location _____

Section 32 Twp. 27S Rge. 19E County Neosho State Kansas

Name of Sand	Upper Bartlesville
Top of Core	703.0
Bottom of Core	744.6
Top of Sand	705.5
Bottom of Sand	736.7
Total Feet of Permeable Sand	29.2
Total Feet of Floodable Sand	

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 10	8.0	8.0
10 - 60	18.7	26.7
60 & Above	2.5	29.2

Average Permeability Millidarcys	37.0
Average Percent Porosity	16.6
Average Percent Oil Saturation	41.0
Average Percent Water Saturation	43.5
Average Oil Content, Bbls./A. Ft.	547.
Total Oil Content, Bbls./Acre	16,349.
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 Frank Stich Lease Stich Well No. 2

<u>Depth Interval, Feet</u>	<u>Description</u>
703.0 - 705.5	Hard gray limestone containing a vertical fracture.
705.5 - 724.0	Brown sandstone.,
724.0 - 728.3	Dark slightly carbonaceous sandstone.
728.3 - 732.2	Brown shaly sandstone.
732.2 - 736.7	Dark carbonaceous shaly sandstone.
736.7 - 742.2	Gray laminated sandstone and shale.
742.2 - 744.6	Gray sandy 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	705.9	16.7	61	30	91	790	38.	0.5	0.5	395	19.00
2	706.5	17.3	53	40	93	711	44.	1.0	1.5	711	44.00
3	707.6	19.1	57	39	96	845	24.	1.0	2.5	845	24.00
4	708.5	18.7	61	33	94	885	26.	1.0	3.5	885	26.00
5	709.7	18.9	65	30	95	953	203.	1.0	4.5	953	203.00
6	710.7	14.8	47	44	91	540	19.	1.0	5.5	540	19.00
7	711.6	16.4	46	50	96	585	35.	1.0	6.5	585	35.00
8	712.6	19.0	49	45	94	722	33.	1.0	7.5	722	33.00
9	713.7	16.9	42	43	85	551	52.	1.0	8.5	551	52.00
10	714.6	19.0	43	47	90	634	45.	1.0	9.5	634	45.00
11	715.6	19.1	40	50	90	593	39.	1.0	10.5	593	39.00
12	716.5	16.7	40	55	95	518	49.	1.0	11.5	518	49.00
13	717.5	16.6	22	54	76	283	6.8	1.0	12.5	283	6.80
14	718.5	14.9	28	49	77	324	42.	1.0	13.5	324	42.00
15	719.5	18.7	33	44	77	479	14.	1.0	14.5	479	14.00
16	720.6	15.5	29	55	84	349	13.	1.0	15.5	349	13.00
17	721.7	17.0	37	53	90	488	145.	1.5	17.0	732	216.50
18	723.8	14.9	33	60	93	381	49.	1.5	18.5	571	73.50
19	724.7	14.8	56	40	96	643	33.	1.0	19.5	643	33.00
20	725.4	16.5	54	39	93	691	1.6	1.0	20.5	691	1.60
21	728.9	16.6	40	44	84	515	19.	0.7	21.2	360	13.30
22	729.8	16.2	36	51	87	452	3.9	1.0	22.2	452	3.90
23	730.6	16.0	27	61	88	335	60.	1.0	23.2	335	60.00
24	731.6	19.6	27	45	72	411	8.0	1.2	24.4	494	9.60
25	732.5	20.5	40	32	72	636	1.3	0.8	25.2	510	1.04
26	733.6	18.9	46	33	79	675	1.2	1.0	26.2	675	1.20
27	734.5	19.9	40	42	82	618	1.0	1.0	27.2	618	1.00
28	735.7	16.9	48	34	82	629	0.79	1.0	28.2	629	0.79
29	736.6	9.7	52	41	93	391	Imp.	0.7	29.9	272	0.00

Company Frank Stich

Lease

Stich

Well No.

2

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Frank Stich	Lease	Stich	Well No.	2
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
705.5 - 724.0	18.5	51.6	953.80		
724.0 - 736.7	10.7	11.7	125.43		
705.5 - 736.7	29.2	37.0	1079.23		

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 Bbbl./Acre
705.5 - 724.0	18.5	17.2	42.7	46.6	577	10,670
724.0 - 736.7	11.4	15.6	38.2	38.5	498	5,679
705.5 - 736.7	29.9	16.6	41.0	43.5	547	16,349