



OILFIELD RESEARCH LABORATORIES

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

July 30, 1979

C-K Oil Company
c/o Glenn Caldwell
P. O. Box 42
Garnett, Kansas 66032

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Kirk Lease, Well No. 21, Anderson County, Kansas, and submitted to our laboratory on July 24, 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
Benjamin R. Pearman

BRP:dlb

5 c to Garnett, Kansas

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LOG

Company C-K Oil Company Lease Kirk Well No. 21

<u>Depth Interval, Feet</u>	<u>Description</u>
767.0 - 768.8	Gray shale.
768.8 - 769.8	Brown and Light brown laminated shaly sandstone.
769.8 - 770.4	Gray shale.
770.4 - 774.0	Brown laminated shaly sandstone.
774.0 - 775.1	Gray sandy shale.
775.1 - 778.0	Brown laminated slightly shaly sandstone.
778.0 - 778.7	Gray and brown laminated sandstone and shale.
778.7 - 780.6	Brown laminated slightly shaly sandstone.
780.6 - 782.3	Light brown laminated sandy shale.
782.3 - 791.6	Brown laminated slightly shaly sandstone.
791.6 - 792.4	Gray sandy shale.
792.4 - 794.3	Brown shaly sandstone.
794.3 - 795.3	Gray and brown laminated shale and sandstone.
795.3 - 798.3	Brown finely laminated shaly sandstone.
798.3 - 799.0	Brown sandstone.
799.0 - 800.5	Gray and brown laminated shale and sandstone.
800.5 - 801.0	Brown sandstone.
801.0 - 803.0	Gray sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company C-K Oil Company Lease Kirk Well No. 21

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	770.6	12.8	23	67	228	0.63	0.5	0.5	114	0.32
2	772.4	15.4	45	36	538	0.60	1.0	1.5	538	0.60
3	773.4	14.2	34	57	375	2.1	1.0	2.5	375	2.10
4	775.4	18.1	38	54	534	15.	0.9	3.4	480	13.40
5	776.6	17.0	37	44	488	7.4	1.0	4.4	488	7.40
6	777.5	16.4	54	37	687	4.2	1.0	5.4	687	4.20
7	778.5	15.0	53	39	617	0.19	0.7	6.1	432	0.13
8	779.6	19.6	38	52	578	13.	1.0	7.1	578	13.00
9	780.5	19.7	43	40	657	25.	0.9	8.0	591	22.50
10	782.5	17.2	39	45	520	13.	0.7	8.7	364	9.10
11	783.5	18.6	39	47	563	12.	1.0	9.7	563	12.00
12	784.4	14.1	27	69	296	11.	1.0	10.7	296	11.00
13	785.5	19.0	38	48	560	13.	1.0	11.7	560	13.00
14	786.3	18.4	42	49	600	13.	1.0	12.7	600	13.00
15	787.6	19.4	39	53	587	24.	1.0	13.7	587	24.00
16	788.5	19.0	37	56	545	22.	1.0	14.7	545	22.00
17	789.6	11.6	34	60	306	0.18	1.0	15.7	306	0.18
18	790.5	19.0	27	64	398	13.	1.0	16.7	398	13.00
19	791.5	19.4	37	52	557	15.	0.6	17.3	334	9.00
20	792.5	19.7	36	57	550	0.33	0.9	18.2	495	0.30
21	793.5	16.2	43	54	540	6.5	1.0	19.2	540	6.50
22	794.5	14.1	36	61	394	Imp.	1.0	20.2	394	0.00
23	795.4	17.9	31	60	431	4.4	1.0	21.2	431	4.40
24	798.5	19.6	35	52	532	22.	0.7	21.9	372	15.40
25	799.5	19.1	36	56	533	0.28	1.5	23.4	800	0.42
26	800.6	18.7	36	54	522	21.	0.5	23.9	261	10.50

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Well No.			
C-K Oil Company	Kirk	21			
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
770.4 - 778.7	6.1	4.6	28.15		
778.7 - 794.3	13.1	12.9	168.58		
794.3 - 801.0	3.7	8.3	30.72		
770.4 - 801.0	22.9	9.9	227.45		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
770.4 - 778.7	6.1	41.5	46.4	510	3,114
778.7 - 794.3	13.1	37.0	53.8	516	6,757
794.3 - 801.0	4.7	34.8	57.1	480	2,258
770.4 - 801.0	23.9	37.8	52.3	507	12,129