

OILFIELD RESEARCH LABORATORIES

- REGISTERED ENGINEERS -

700 NORTH MISSION
OKMULGEE, OKLAHOMA
PHONE: 4444

Chanute, Kansas

536 N. HIGHLAND
CHANUTE, KANSAS
PHONE: HE 1-2650

November 24, 1962

Jack Thomas
1329 North 9th
Independence, Kansas

Dear Sir:

Enclosed herewith are the results of tests run on the Rotary core taken from the McConnel Lease, Input Well No. 1, Montgomery County, Kansas, and submitted to our laboratory on November 20, 1962.

This core was sampled and the samples sealed in jars by the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

BRP:rf

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GENERAL INFORMATION & SUMMARY

Company Jack Thomas Lease McConnel Well No. Input 1

Location NW

Section 20 Twp. 34S Rge. 15E County Montgomery State Kansas

Name of Sand	Wayside
Top of Core	494.5
Bottom of Core	515.5
Top of Sand	494.5
Bottom of Sand	515.5
Total Feet of Permeable Sand	20.0
Total Feet of Floodable Sand	

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 10	6.0	6.0
10 - 50	11.5	17.5
50 - 100	2.0	19.5
100 & above	0.5	20.0

Average Permeability Millidarcys	27.6
Average Percent Porosity	16.9
Average Percent Oil Saturation	52.1
Average Percent Water Saturation	37.5
Average Oil Content, Bbls./A. Ft.	688.
Total Oil Content, Bbls./Acre	14,434.
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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Company Jack Thomas Lease McConnel Well No. Input 1

Depth Interval, Description
Feet

494.5 - 515.5 - Dark brown, laminated, shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Jack Thomas Lease McConnel Well No. Input 1

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	494.6	19.3	32	63	95	479	114.	0.5	0.5	240	57.00
2	495.5	20.1	38	48	86	592	65.	1.0	1.5	592	65.00
3	496.5	18.5	48	39	87	688	63.	1.0	2.5	688	63.00
4	497.5	14.1	51	38	89	557	19.	1.0	3.5	557	19.00
5	498.5	13.6	48	40	88	506	10.	1.0	4.5	506	10.00
6	499.5	14.5	54	40	94	606	32.	1.0	5.5	606	32.00
7	500.5	18.1	61	31	92	856	4.4	1.0	6.5	856	4.40
8	501.5	8.8	32	62	94	218	0.76	1.0	7.5	218	0.76
9	502.5	16.5	60	33	93	767	13.	1.0	8.5	767	13.00
10	503.5	13.5	50	40	90	523	Imp.	1.0	9.5	523	0.00
11	504.5	16.1	60	33	93	749	35.	1.0	10.5	749	35.00
12	505.5	17.9	58	35	93	805	50.	1.0	11.5	805	50.00
13	506.5	18.8	61	25	86	888	28.	1.0	12.5	888	28.00
14	507.5	10.5	54	41	95	440	8.0	1.0	13.5	440	8.00
15	508.5	17.0	58	39	97	764	1.9	1.0	14.5	764	1.90
16	509.5	18.8	53	34	87	771	44.	1.0	15.5	771	44.00
17	510.5	18.6	43	27	70	620	21.	1.0	16.5	620	21.00
18	511.5	20.3	60	22	82	944	25.	1.0	17.5	944	25.00
19	512.5	17.2	42	52	94	559	27.	1.0	18.5	559	27.00
20	513.5	19.9	61	32	93	941	3.5	1.0	19.5	941	3.50
21	514.5	20.4	59	30	89	933	30.	1.5	21.0	<u>1,400</u>	<u>45.00</u>
Total										14,434	

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Jack Thomas	Lease	McConnel	Well No.	Input 1	
	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
	494.5 - 504.0	8.5	31.1	264.16		
	504.0 - 515.5	11.5	25.1	288.40		
	494.5 - 515.5	20.0	27.6	552.56		
	Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Total Oil Content Bbls./Acre
	494.5 - 504.0	9.5	15.5	48.1	42.4	5,553
	504.0 - 515.5	11.5	18.0	55.5	33.4	8,881
	494.5 - 515.5	21.0	16.9	52.1	37.5	14,434