● CORE ANALYSIS ● WATER REPRESSURING ENGINEERING ● WATER ANALYSIS ● FLOODING WATER TREATMENT ● SURVEYING

OILFIELD RESEARCH LABORATORIES

- REGISTERED ENGINEERS -

813 EAST SIXTH
OKMULGEE, OKLAHOMA
PHONE: 4444

Chanute, Kansas

536 N. HIGHLAND
CHANUTE, KANSAS
PHONE: 728

February 1, 1961

Mr. Jack Thomas
1329 North Ninth
Independence, Kansas

Dear Sir:

Enclosed herewith are the results of tests run on the Cable Tool core taken from the Spencer "B" Lease, Well No. 1, Labette County, Kansas, and submitted to our laboratory by you on January 29, 1961.

This core was sampled and the samples were sealed in jars by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman

Benjamin R. Pearman

BRP:db

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Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Jack Thomas Lease Spencer "B" Well No. 1

Location SE 1/4 NE 1/4

Section 35 Twp. 32-S Rge. 17-E County Labette State Kansas

Name of Sand	Bartlesville
Top of Core	707.0
Bottom of Core	721.0
Top of Sand	707.0
Bottom of Sand	720.1
Total Feet of Permeable Sand	10.3
Total Feet of Floodable Sand	-

Distribution of Permeable Sand:

Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 10	0.9	0.9
10 - 100	4.8	5.7
100 - 200	2.6	8.3
200 - 410	2.0	10.3

Average Permeability Millidarcys	129.5
Average Percent Porosity	16.7
Average Percent Oil Saturation	32.9
Average Percent Water Saturation	46.5
Average Oil Content, Bbls./A. Ft.	439.
Total Oil Content, Bbls./Acre	5,530.
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	836.7

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LOG

Company Jack Thomas Lease Spencer "B" Well No. 1

Depth Interval, Feet	Description
707.0 - 707.9	Grayish light brown laminated shaley sandstone.
707.9 - 711.7	Brown slightly laminated slightly shaley sandstone.
711.7 - 711.9	Laminated sandy shale.
711.9 - 717.5	Brown slightly laminated slightly shaley sandstone.
717.5 - 718.5	Laminated sandstone and shale.
718.5 - 719.1	Hard brown shaley sandstone.
719.1 - 719.3	Laminated sandy shale.
719.3 - 720.1	Hard dark carbonaceous sandstone.
720.1 - 721.0	Laminated sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Jack Thomas Lease Spencer "B" Well No. 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.		
1	707.1	12.8	29	37	66	289	4.0	0.9	0.9	260	3.60
2	708.0	16.0	27	45	72	336	43.	0.6	1.5	201	25.80
3	709.0	17.0	35	43	78	462	253.	1.0	2.5	462	253.00
4	710.0	19.4	42	31	73	631	77.	1.0	3.5	631	77.00
5	711.0	18.2	48	27	75	678	87.	1.2	4.7	814	104.40
6	712.0	15.0	42	26	68	489	139.	0.6	5.3	294	83.40
7	713.0	21.8	30	56	86	508	403.	1.0	6.3	508	403.00
8	714.0	20.8	36	52	88	581	75.	1.0	7.3	581	75.00
9	715.0	19.1	33	46	79	489	118.	1.0	8.3	489	118.00
10	716.0	19.8	42	47	89	646	173.	1.0	9.3	646	173.00
11	717.0	14.9	10	82	92	116	15.	1.0	10.3	116	15.00
12	718.0	10.4	18	63	81	145	Imp.	1.0	11.3	145	0.00
13	719.0	13.1	18	72	90	183	Imp.	0.6	11.9	110	0.00
14	720.0	10.9	46	20	66	390	Imp.	0.7	12.6	273	0.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III - B

Company Jack Thomas Lease Spencer "B" Well No. 1

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
707.0 - 716.5	9.3	141.5	1,316.20
716.5 - 720.1	1.0	15.0	15.00
707.0 - 720.1	10.3	129.5	1,331.20

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
707.0 - 716.5	9.3	18.2	36.9	41.2	525	4,886
716.5 - 720.1	3.3	12.4	21.5	61.4	195	644
707.0 - 720.1	12.6	16.7	32.9	46.5	439	5,530