

OILFIELD RESEARCH LABORATORIES

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- REGISTERED ENGINEERS -

Chanute, Kansas

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May 2, 1961

Clawson Oil Co.
Hartford, Kansas

Gentlemen:

Enclosed herewith is the report of the analysis of the Rotary core taken from the Mason Lease, Well No. 1, Greenwood County, Kansas, and submitted to our laboratory on April 27, 1961.

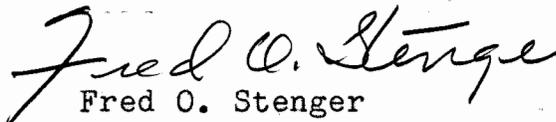
Based on the results of our laboratory tests the primary recovery for this well is calculated to be 148 barrels per acre foot.

This core was sampled and the samples were sealed in cans by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

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Fred O. Stenger

FOS:rf

8c.

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Clawson Oil Co. Lease Mason Well No. 1

Location NW NW SW

Section 26 Twp. 23S Rge. 10E County Greenwood State Kansas

Name of Sand	Bartlesville
Top of Core	2264.0
Bottom of Core	2995.0
(According to log)	
Top of Sand	2270.1
Bottom of Sand	2278.4
Total Feet of Permeable Sand	15.1

Total Feet of Floodable Sand

Distribution of Permeable Sand:
Permeability Range
Millidarcys

	Feet	Cum. Ft.
0 - 20	7.8	7.8
20 & above	7.3	15.1

Average Permeability Millidarcys	15.1
Average Percent Porosity	15.7
Average Percent Oil Saturation	31.7
Average Percent Water Saturation	39.7
Average Oil Content, Bbls./A. Ft.	418.
Total Oil Content, Bbls./Acre	6762.
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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LOGCompany Clawson Oil Co. Lease Mason Well No. 1

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
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2264.0 - 2269.2	- Light brown slightly laminated shaley sandstone.
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2269.2 - 2270.1	- Sandy shale.
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2270.1 - 2278.4	- Brown sandstone.
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2278.4 - 2282.0	- Conglomeratic shaley sandstone.
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2282.0 - 2283.0	- Light brown slightly shaley slightly calcareous sandstone.
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2283.0 - 2284.9	- Light brown calcareous sandstone.
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2284.9 - 2293.5	- Dark shale
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2293.5 - 2295.0	- Loss.
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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Clawson Oil Co. Lease Mason Well No. 1

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbbs. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	2264.1	14.8	27	43	70	310	1.8	0.6	0.6	186	1.08
2	2265.1	16.2	36	36	72	453	4.0	1.0	1.6	453	4.00
3	2266.1	14.6	30	47	77	340	3.2	1.0	2.6	340	3.20
4	2267.1	15.6	31	37	68	375	7.9	1.0	3.6	375	7.90
5	2268.1	14.8	26	48	74	299	4.4	1.6	5.2	478	7.04
6	2270.2	19.1	39	30	69	578	28.	0.5	5.7	289	14.00
7	2271.1	19.1	37	30	67	548	20.	1.0	6.7	548	20.00
8	2272.1	17.2	39	38	77	671	30.	1.0	7.7	671	30.00
9	2273.1	17.7	29	37	66	513	29.	1.0	8.7	513	29.00
10	2274.1	18.5	30	38	68	432	33.	1.0	9.7	432	33.00
11	2275.1	17.7	34	38	72	602	29.	1.0	10.7	602	29.00
12	2276.1	17.5	31	37	68	420	39.	1.0	11.7	420	39.00
13	2277.1	17.9	29	39	68	403	8.2	1.0	12.7	403	8.20
14	2278.1	19.5	28	39	67	423	25.	0.8	13.5	338	20.00
15	2282.1	13.2	39	34	73	399	1.1	1.0	14.5	399	1.10
16	2283.1	9.6	25	45	70	186	1.0	0.6	15.1	112	0.60
17	2284.1	6.5	31	50	81	156	Imp.	1.3	16.4	203	0.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III -B

Company	Lease	Well No.	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Total Oil Content Bbls./Acre
Clawson Oil Co.	Mason	1	2264.0 - 2269.2	5.2	4.45	23.22	1832
			2270.1 - 2278.4	8.3	26.80	222.20	4216
			2282.0 - 2284.9	2.9	0.59	1.70	714
			2264.0 - 2284.9	16.4	15.1	247.12	6762
			2264.0 - 2269.2	5.2	29.8	42.8	353
			2270.1 - 2278.4	8.3	32.6	36.5	508
			2282.0 - 2284.9	2.9	32.5	43.4	246
			2264.0 - 2284.9	16.4	31.7	39.7	418