

OILFIELD RESEARCH LABORATORIES

- REGISTERED ENGINEERS -

813 EAST SIXTH
OKMULGEE, OKLAHOMA
PHONE: 4444

Chanute, Kansas

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CHANUTE, KANSAS
PHONE: 728

June 16, 1961

W. R. Zwink
Loup City, Nebraska

Dear Sir:

Enclosed herewith are the results of tests run on the Cable tool core taken from the Stella Caylor (Sunshine) Lease, Well No. W-1, Miami County, Kansas, and submitted to our laboratory June 14, 1961.

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

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Benjamin R. Pearman

BRP:rf

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GENERAL INFORMATION & SUMMARY

Company W. R. Zwink Lease (Sunshine) Stella Caylor Well No. W-1

Location NW $\frac{1}{4}$

Section 1 Twp. 18S Rge. 21E County Miami State Kansas

??
 Name of Sand 36 175 Peru
 Top of Core - - - - - 311.7
 Bottom of Core - - - - - 327.7
 Top of Sand - - - - - (Tested) 315.7
 Bottom of Sand - - - - - (Tested) 327.7
 Total Feet of Permeable Sand - - - - - 11.1
 Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

	Feet	Cum. Ft.
0 - 10	1.7	1.7
10 - 100	0.8	2.5
100 - 300	4.0	6.5
300 - 500	3.5	10.0
500 & above	1.1	11.1

Average Permeability Millidarcys - - - - - 282.0
 Average Percent Porosity - - - - - 19.9
 Average Percent Oil Saturation - - - - - 37.2
 Average Percent Water Saturation - - - - - 46.9
 Average Oil Content, Bbls./A. Ft. - - - - - 531.
 Total Oil Content, Bbls./Acre - - - - - 6,364.
 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 W. R. Zwink Lease Stella Caylor(Sunshine) Well No. W-1

Depth Interval, Description
Feet _____

311.7 - 315.7 - Very hard limy sandstone.

315.7 - 316.6 - Gray calcareous sandstone.

316.6 - 327.7 - Brown laminated calcareous sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE I-B

Company W. R. Zwink

Lease Stella Gaylor (Sunshine)

Well No. W-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	316.1	23.4	13	78	91	236	Imp.	0.9	0.9	212	0.00
2	317.5	26.7	27	65	92	559	404.	1.4	2.3	781	565.60
3	318.5	21.3	27	40	67	447	489.	1.0	3.3	447	489.00
4	319.5	24.8	36	47	83	692	315.	1.1	4.4	761	346.50
5	320.8	23.8	18	53	71	332	857.	1.1	5.5	366	942.70
6	321.8	24.4	40	37	77	757	253.	1.2	6.7	910	303.60
7	323.0	10.8	55	35	90	462	7.4	1.0	7.7	462	7.40
8	323.8	21.6	45	44	89	754	148.	1.0	8.7	754	148.00
9	324.8	13.5	42	43	85	440	121.	1.0	9.7	440	121.00
10	325.8	11.0	49	40	89	418	158.	0.8	10.5	334	126.40
11	326.6	16.5	53	37	90	679	84.	0.8	11.3	542	67.20
12	327.4	12.1	54	35	89	507	9.7	0.7	12.0	355	6.79

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Stella Caylor (Sunshine)	Well No.	W-1
Depth Interval, Feet	(Permeable) Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Mfd.	Total Oil Content Bbls./Acre
315.7 - 321.2	4.6	510.9	2343.80	2,567
321.2 - 327.7	6.5	120.3	780.39	3,797
315.7 - 327.7	11.1	282.0	3124.19	6,364

Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.
315.7 - 321.2	5.5	24.2	24.7	56.5	467
321.2 - 327.7	6.5	16.2	47.6	38.9	584
315.7 - 327.7	12.0	19.9	37.2	46.9	531