

OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS - PHONE HE1-2650

December 15, 1967

Reliance Oil Corporation
P. O. Box 1014
Charlottesville, Virginia 22901

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the Schuetz Lease, Well No. W-2, Montgomery County, Kansas, and submitted to our laboratory on December 12, 1967.

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

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:bjo

5 c. - Charlottesville, Virginia
2 c. - Nowata, Oklahoma

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Reliance Oil Corporation Lease Schuetz Well No. W-2

Location SE/4

Section 24 Twp 34S Rge. 15E County Montgomery State Kansas

Name of Sand - - - - - Wayside

Top of Core - - - - - 354.0

Bottom of Core - - - - - 374.0

Top of Sand - (Analyzed) - - - - - 354.0

Oil
Bottom of Sand - - - - - 361.7

Total Feet of Permeable Sand - - - - - 6.7

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 1

3.3

3.3

1 - 5

2.1

5.4

5 & above

1.3

6.7

Average Permeability Millidarcys - - - - - 3.3

Average Percent Porosity - - - - - 16.4

Average Percent Oil Saturation - - - - - 20.0

Average Percent Water Saturation - - - - - 76.4

Average Oil Content, Bbls./A. Ft. - - - - - 261.

Total Oil Content, Bbls./Acre - - - - - 2,612.

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 Reliance Oil Corporation Lease Schuetz Well No. W-2

Depth Interval, Feet	Description
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354.0 - 354.3	- Light brown slightly shaly sandstone.
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354.3 - 356.0	- Gray shaly sandstone.
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356.0 - 361.7	- Light brown laminated shaly sandstone.
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361.7 - 364.0	- Gray shaly sandstone.
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364.0 - 368.0	- Sandy shale.
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368.0 - 374.0	- Loss.
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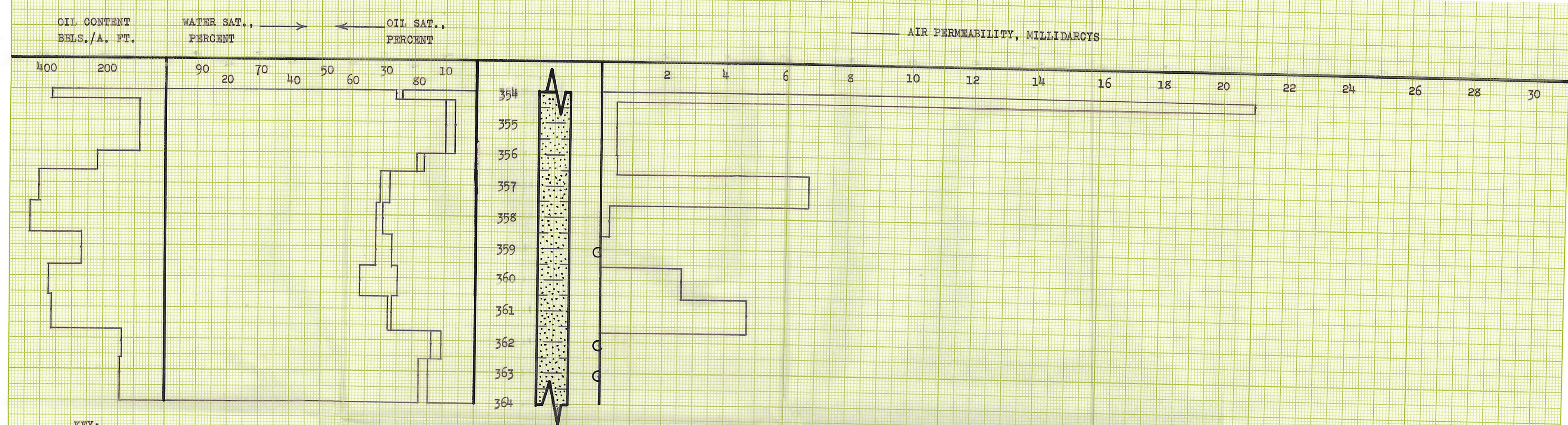
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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Reliance Oil Corporation Lease Schuetz Well No. W-2

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	354.1	19.7	24	74	98	367	21.	0.3	0.3	110	6.30
2	355.1	15.4	7	90	97	84	0.48	1.7	2.0	143	0.82
3	356.1	16.8	17	81	98	222	0.50	0.6	2.6	133	0.30
4	357.1	18.8	28	69	97	408	6.7	1.0	3.6	408	6.70
5	358.1	18.7	30	68	98	435	0.26	1.0	4.6	435	0.26
6	359.1	13.0	27	68	95	272	Imp.	1.0	5.6	272	0.00
7	360.1	19.3	25	63	88	374	2.6	1.0	6.6	374	2.60
8	361.1	17.5	27	72	99	367	4.7	1.1	7.7	404	5.17
9	362.1	16.5	11	86	97	141	Imp.	0.9	8.6	127	0.00
10	363.1	12.6	15	82	97	147	Imp.	1.4	10.0	206	0.00



KEY:
SHALY SANDSTONE

SANDY SHALE

○ IMPERMEABLE TO AIR

RELIANCE OIL CORPORATION

SCHURTZ LEASE WELL NO. W-2
MONTGOMERY COUNTY, KANSAS

DEPTH INTERVAL FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY PERCENT	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVG. OIL CONTENT BBLs./A.FT.	TOTAL OIL CONTENT BBLs./ACRE	AVG. AIR PERMEABILITY MILLIDARCYS
354.0 - 364.0	10.0	16.4	20.0	76.4	261	2,612	3.3

OILFIELD RESEARCH LABORATORIES
CHANUTE, KANSAS
DECEMBER, 1967

CROSS SECTION