

OILFIELD RESEARCH LABORATORIES

- REGISTERED ENGINEERS -

813 EAST SIXTH
OKMULGEE, OKLAHOMA
PHONE: 4444

Chanute, Kansas

536 N. HIGHLAND
CHANUTE, KANSAS
PHONE: 728

May 24, 1951

Charles L. Hiserote
224 East Jim
Iola, Kansas

Dear Sir:

Enclosed herewith are the results of tests run on the Rotary core taken from the Holden Lease, Well No. 4, Woodson County, Kansas, and submitted to our laboratory on May 22, 1961.

This core was sampled and submitted to our laboratory by a representative of the client. These samples were exposed from 36 to 60 hours before being submitted to our laboratory.

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 Charles L. Hiserote Lease Holden Well No. 4

Location W $\frac{1}{2}$

Section 15 Twp. 24S Rge. 16E County Woodson State Kansas

Name of Sand - - - - - Bartlesville ?

Top of Core - - - - - 945.4

Bottom of Core - - - - - 1000.0

Top of Sand - - - - - 945.8

Bottom of Sand - - - - - ?

Total Feet of Permeable Sand - - - - - (Analyzed) 10.0

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 5	3.0	3.0
5 - 10	2.0	5.0
10 - 30	3.0	8.0
30 & above	2.0	10.0

Average Permeability Millidarcys - - - - - 15.2

Average Percent Porosity - - - - - 17.0

Average Percent Oil Saturation - - - - - 39.3

Average Percent Water Saturation - - - - - 19.9

Average Oil Content, Bbls./A. Ft. - - - - - 523.

Total Oil Content, Bbls./Acre - - - - - 5,225.

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 Charles L. Hiserote Lease Holden Well No. 4

Depth Interval, Feet	Description
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945.4 - 945.8	- Shale.
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945.8 - 954.3	- Brown slightly laminated shaley sandstone.
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954.3 - 957.4	- Sandy shale.
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957.4 - 988.0	- Drilled.
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988.0 - 1000.0	- Alternate layers of dark brown sandstone and shale.
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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Charles L. Hiserote Lease Holden Well No. 4

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	946.2	15.9	33	28	61	407	0.50	1.0	1.0	407	0.50
2	947.8	14.2	29	30	59	320	5.2	1.0	2.0	320	5.20
3	949.4	17.6	32	22	54	436	10.	1.0	3.0	436	10.00
4	951.0	19.2	35	18	53	521	17.	1.0	4.0	521	17.00
5	952.1	17.7	41	19	60	564	42.	1.0	5.0	564	42.00
6	954.0	18.0	40	18	58	559	8.1	1.0	6.0	559	8.10
7	988.1	18.2	49	13	62	692	26.	1.0	7.0	692	26.00
8	992.5	18.0	57	11	68	796	38.	1.0	8.0	796	38.00
9	993.5	15.2	47	15	62	551	1.3	1.0	9.0	551	1.30
10	999.0	16.3	30	25	55	379	3.5	1.0	10.0	379	3.50

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III -B

Company	Charles L. Hiserote	Lease	Holden	Well No.	4
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
945.8 - 954.3	6.0	13.8	82.80		
988.0 - 999.5	4.0	17.2	68.80		
945.8 - 999.5	10.0	15.2	151.60		

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
945.8 - 954.3	6.0	17.1	35.0	22.5	468	2,807
988.0 - 999.5	4.0	16.9	45.8	16.0	605	2,418
945.8 - 999.5	10.0	17.0	39.3	19.9	523	5,225