

OILFIELD RESEARCH LABORATORIES

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OKMULGEE, OKLAHOMA
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- REGISTERED ENGINEERS -

Chanute, Kansas

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January 9, 1958

Creek Oil & Gas Company, Inc.
P. O. Box 377
Chanute, Kansas

Gentlemen:

Enclosed herewith are the results of saturation tests run on the 3" Rotary core taken from the Wells Lease, Well No. 16, Neosho County, Kansas, and submitted to our laboratory by Mr. Jack McKelvey on January 3, 1958.

This core was sampled and the samples sealed in cans by a representative of the Creek Oil & Gas Company, Inc.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. McElrea
Carl L. McElrea

CLM:cb

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GENERAL INFORMATION & SUMMARY

Company Creek Oil & Gas Company, Inc. Lease Wells Well No. 16

Location 3,690' N. of S. Line & 500' E. of W. Line

Section 27 Twp. 28S Rge. 18E County Neosho State Kansas

Name of Sand - - - - - Bartlesville

Top of Core - - - - - 780.0

Bottom of Core - - - - - 807.0

Top of ^{Good}Sand - - - - - 793.3

Bottom of ^{Good}Sand - - - - - 803.9

Total Feet of Permeable Sand - - - - - -

Total Feet of Floodable Sand - - - - - -

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
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Average Permeability Millidarcys - - - - - -

Average Percent Porosity - - - - - 16.6

Average Percent Oil Saturation - - - - - 41.1

Average Percent Water Saturation - - - - - 37.2

Average Oil Content, Bbls./A. Ft. - - - - - 544.

Total Oil Content, Bbls./Acre - - - - - 11,167.

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 - Ground Level - - - - - 961.

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LOG

Company Creek Oil & Gas Company, Inc. Lease Wells Well No. 16

Depth Interval, Description
Feet

- 780.0 - 786.0 - Sandy shale.
- 786.0 - 793.3 - Brown fine grained laminated micaceous shaley sandstone.
- 793.3 - 794.9 - Brown fine grained micaceous sandstone.
- 794.9 - 796.5 - Dark carbonaceous sandstone.
- 796.5 - 796.7 - Laminated sandy shale.
- 796.7 - 797.5 - Dark brown fine grained micaceous carbonaceous shaley sandstone.
- 797.5 - 800.3 - Brown fine grained laminated micaceous shaley sandstone.
- 800.3 - 801.6 - Dark carbonaceous sandstone.
- 801.6 - 801.9 - Laminated sandy shale.
- 801.9 - 803.9 - Brown fine grained laminated micaceous shaley sandstone.
- 803.9 - 804.9 - Brown fine grained micaceous sandstone.
- 804.9 - 807.0 - Dark brown fine grained micaceous carbonaceous slightly shaley sandstone.

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RESULTS OF SATURATION TESTS

TABLE II

Company Creek Oil & Gas Company, Inc. Lease Wells Well No. 16

Sat. No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbls./A. Ft.	Feet of Core		Total Oil Content Bbls./Acre
			Oil	Water	Total		Ft.	Cum. Ft.	
1	786.1	16.0	37	36	73	460	0.5	0.5	230
2	787.0	10.5	30	48	78	244	1.0	1.5	244
3	788.0	15.6	40	41	81	485	1.0	2.5	485
4	789.0	18.3	28	30	58	398	1.0	3.5	398
5	790.0	12.4	28	55	83	270	1.0	4.5	270
6	791.0	12.5	39	53	92	378	1.0	5.5	378
7	792.0	15.4	38	40	78	455	1.0	6.5	455
8	793.0	13.1	42	37	79	427	0.8	7.3	342
9	794.0	21.2	53	26	79	872	1.6	8.9	1,395
10	795.0	21.2	63	21	84	1,038	0.6	9.5	623
11	796.0	18.5	45	26	71	646	1.0	10.5	646
12	797.0	18.4	55	25	80	785	0.8	11.3	628
13	798.0	12.2	31	58	89	294	1.0	12.3	294
14	799.0	17.2	42	34	76	561	1.0	13.3	561
15	800.0	13.0	30	54	84	302	0.8	14.1	242
16	801.0	19.7	42	27	69	642	1.3	15.4	835
17	802.0	17.0	47	32	79	620	0.6	16.0	372
18	803.0	17.1	41	35	76	545	1.4	17.4	763
19	804.0	18.6	56	32	88	809	1.0	18.4	809
20	805.0	20.1	41	34	75	639	0.6	19.0	384
21	806.0	18.0	37	39	76	517	1.0	20.0	517
22	806.9	18.6	41	38	79	592	0.5	20.5	296
							Total	- - - -	11,167

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Creek Oil & Gas Company, Inc. Lease Wells Well No. 16

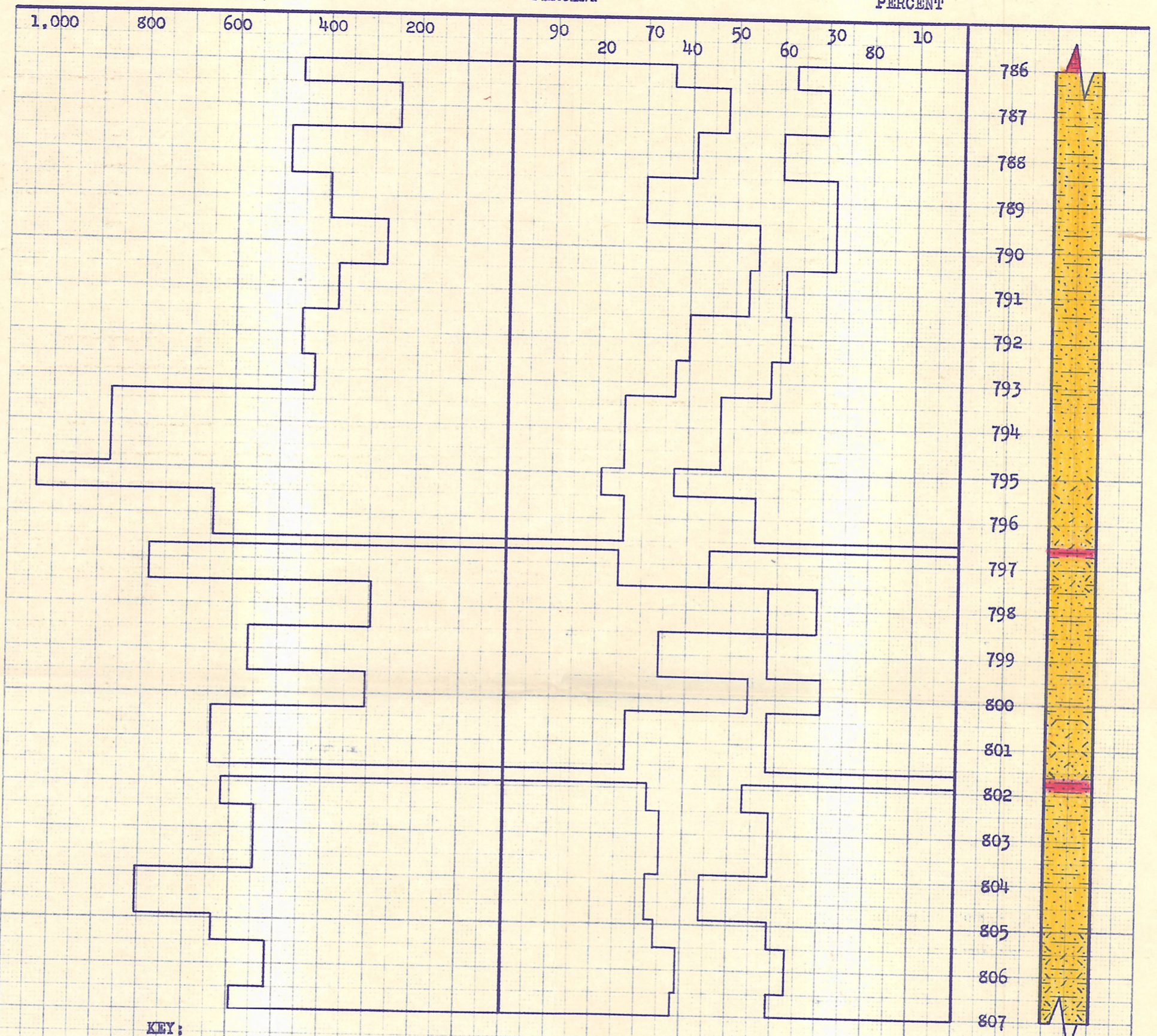
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
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Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
786.0 - 807.0	20.5	16.6	41.1	37.2	544	11,167

OIL CONTENT,
BBLs./A. FT.

WATER SAT.,
PERCENT

OIL SAT.,
PERCENT



KEY:

- SANDSTONE
- CARBONACEOUS SHALEY SANDSTONE
- SHALEY SANDSTONE
- CARBONACEOUS SANDSTONE
- SANDY SHALE

CREEK OIL & GAS COMPANY, INCORPORATED

WELLS LEASE

NEOSHO COUNTY, KANSAS

WELL NO. 16

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
786.0 - 807.0	20.5	16.6	41.1	37.2	544	11,167

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CHANUTE, KANSAS
JANUARY, 1958