



OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS 66720 - PHONE (316) 431-2650

July 31, 1979

James L. Cheever
P. O. Box 153
Severy, Kansas 67137

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Keith Lease, Well No. 12, Wilson County, Kansas, and submitted to our laboratory on July 30, 1979.

The core was sampled by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Benjamin R. Pearman

BRP:dlb

5 c to Severy, Kansas

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GENERAL INFORMATION & SUMMARY

Company James L. Cheever Lease Keith Well No. 12

Location 2660' NSL & 300' WEL

Section 14 Twp. 28S Rge. 15E County Wilson State Kansas

Name of Sand - - - - - Bartlesville

Top of Core - - - - - 1025.0

Bottom of Core - - - - - 1045.0

Top of Sand - - - - - 1025.5

Bottom of Sand - - - - - 1045.0

Total Feet of Permeable Sand - - - - - 15.4

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 1.0	3.2	3.2
1.0 - 10	5.1	8.3
10 - 23	6.1	14.4
23 & Above	1.0	15.4

Average Permeability Millidarcys - - - - - 16.2

Average Percent Porosity - - - - - 15.7

Average Percent Oil Saturation - - - - - 35.9

Average Percent Water Saturation - - - - - 39.8

Average Oil Content, Bbls./A. Ft. - - - - - 429.

Total Oil Content, Bbls./Acre - - - - - 7,249.

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 James L. Cheever Lease Keith Well No. 12

<u>Depth Interval, Feet</u>	<u>Description</u>
1025.0 - 1025.5	Brown and gray laminated sandstone and shale.
1025.5 - 1025.9	Brown slightly shaly sandstone.
1025.9 - 1027.4	Brown and gray finely laminated sandstone and shale.
1027.4 - 1028.3	Brown sandstone.
1028.3 - 1029.5	Brown and gray laminated sandstone and shale.
1029.5 - 1030.0	Brown shaly sandstone.
1030.0 - 1030.4	Brown and gray laminated sandstone and shale.
1030.4 - 1030.8	Brown slightly shaly sandstone.
1030.8 - 1032.3	Gray sandy shale.
1032.3 - 1032.7	Brown and gray laminated sandstone and shale.
1032.7 - 1034.0	Brown sandstone.
1034.0 - 1034.5	Brown conglomeratic sandstone.
1034.5 - 1036.9	Brown sandstone.
1036.9 - 1037.7	Dark brown shaly sandstone.
1037.7 - 1039.8	Dark brown sandstone.
1039.8 - 1040.8	Black carbonaceous shaly sandstone.
1040.8 - 1041.5	Gray sandy shale.
1041.5 - 1041.9	Dark brown sandstone.
1041.9 - 1045.0	Black carbonaceous sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company James L. Cheever Lease Keith Well No. 12

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	1025.7	16.6	28	38	66	361	8.0	0.4	0.4	144	3.20
2	1026.7	14.0	33	40	73	358	Imp.	1.5	1.9	537	0.00
3	1027.5	16.5	29	37	66	371	15.	0.9	2.8	334	13.50
4	1028.6	8.9	40	50	90	276	0.46	1.2	4.0	331	0.55
5	1029.6	13.9	35	52	87	377	2.1	0.5	4.5	189	1.05
6	1030.5	15.0	30	53	83	349	6.2	0.4	4.9	140	2.48
7	1032.4	14.2	30	40	70	331	1.7	0.4	5.3	132	0.68
8	1033.5	17.4	30	41	71	405	22.	1.3	6.6	526	28.60
9	1034.4	18.3	32	46	78	454	6.3	0.5	7.1	227	3.15
10	1035.5	14.6	37	56	93	419	11.	1.5	8.6	629	16.50
11	1036.4	16.6	33	32	65	424	23.	0.9	9.5	382	20.70
12	1037.4	13.8	36	37	73	385	1.4	0.8	10.3	308	1.12
13	1038.5	19.7	35	38	73	535	21.	1.1	11.4	589	23.10
14	1039.6	20.8	33	40	73	533	115.	1.0	12.4	533	115.00
15	1040.6	9.4	59	30	89	430	3.2	1.0	13.4	430	3.20
16	1041.7	20.6	34	42	76	543	13.	0.4	13.8	217	5.20
17	1042.6	16.2	34	38	72	427	9.6	1.1	14.9	470	10.56
18	1043.5	18.5	42	29	71	603	0.24	1.0	15.9	603	0.24
19	1044.5	17.9	38	23	61	528	0.17	1.0	16.9	528	0.17

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	James L. Cheever	Lease	Keith	Well No.	12
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
1025.5 - 1039.8	10.9	21.0	229.63		
1039.8 - 1045.0	4.5	4.3	19.37		
1025.5 - 1045.0	15.4	16.2	249.00		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Total Oil Content Bbls./Acre
1025.5 - 1039.8	12.4	15.6	33.6	43.0	5,001
1039.8 - 1045.0	4.5	16.0	42.3	31.2	2,248
1025.5 - 1045.0	16.9	15.7	35.9	39.8	7,249