OILFIELD RESEARCH LABORATORIES

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

August 7, 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. 13, Wilson County, Kansas, and submitted to our laboratory on August 4, 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

Benjamin R. Pearman

SAM:dlb

5 c to Severy, Kansas

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company James L. Cheever Lease Keith Well No. 13

Location 990' SNL & 300' WEL

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

Name of Sand	Bartlesville
Top of Core	1020.0
Bottom of Core	1040.0
Top of Sand	1020.0
Bottom of Sand (Analyzed)	1034.7
Total Feet of Permeable Sand	12.1
Total Feet of Floodable Sand	

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 5	12.1	12.1

Average Permeability Millidarcys	2.5
Average Percent Porosity	13.6
Average Percent Oil Saturation	37.8
Average Percent Water Saturation	45.5
Average Oil Content, Bbls./A. Ft.	385.
Total Oil Content, Bbls./Acre	5049.
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. 13

Depth Interval, Feet	Description
1020.0 - 1020.8	Brown shaly sandstone.
1020.8 - 1025.9	Brown and gray laminated sandstone and shale.
1025.9 - 1027.1	Gray sandy shale.
1027.1 - 1030.8	Dark brown shaly sandstone.
1030.8 - 1031.2	Gray sandy shale.
1031.2 - 1034.0	Brown slightly shaly sandstone.
1034.0 - 1034.7	Black carbonaceous sandstone.
1034.7 - 1035.5	Gray carbonaceous shaly sandstone.
1035.5 - 1039.0	Coal.
1039.0 - 1040.0	Gray shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company James L. Cheever Lease Keith Well No. 13

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	1020.5	13.1	27	57	84	274	3.4	0.8	0.8	219	2.72
2	1021.5	14.9	23	51	74	266	0.88	1.2	2.0	319	1.06
3	1022.7	11.1	37	58	95	319	3.3	1.0	3.0	319	3.30
4	1023.5	13.9	28	50	78	302	Imp.	1.0	4.0	302	0.00
5	1024.5	10.8	42	54	96	352	1.8	1.0	5.0	352	1.80
6	1025.7	13.8	31	48	79	332	1.2	0.9	5.9	299	1.08
7	1027.4	4.5	59	36	95	206	2.8	0.9	6.8	185	2.52
8	1028.5	12.8	44	41	85	437	1.7	1.0	7.8	437	1.70
9	1029.5	15.6	22	60	82	266	1.1	1.0	8.8	266	1.10
10	1030.5	15.8	32	51	83	392	4.9	0.8	9.6	314	3.92
11	1031.5	14.9	43	36	79	497	3.7	0.8	10.4	398	2.96
12	1032.5	15.2	55	27	82	649	4.0	1.0	11.4	649	4.00
13	1033.5	19.1	39	30	69	578	3.4	1.0	12.4	578	3.40
14	1034.5	13.8	55	34	89	589	0.65	0.7	13.1	412	0.46

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company James L. Cheever Lease Keith Well No. 13

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
1020.0 - 1034.7	12.1	2.5	30.02

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
1020.0 - 1034.7	13.1	13.6	37.8	45.5	385	5,049