



OILFIELD RESEARCH LABORATORIES

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

June 7, 1979

Evans R. Mynatt
R.R. 1
La Harpe, Kansas 66751

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the Mynatt Lease, Well No. 3, Allen County, Kansas, and submitted to our laboratory on May 30, 1979.

The core was sampled by a representative of Oilfield Research Laboratories after being received in the laboratory.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

BRP:km
3 c to La Harpe, Kansas

- REGISTERED ENGINEERS -

CORE ANALYSIS - WATER ANALYSIS - REPRESSURING ENGINEERING - SURVEYING & MAPPING - PROPERTY EVALUATION & OPERATION

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GENERAL INFORMATION & SUMMARY

Company Evans R. Mynatt Lease Mynatt Well No. 3

Location NW NW

Section 13 Twp. 25S Rge. 19E County Allen State Kansas

Name of Sand - - - - - Bartlesville

Top of Core - - - - - 844.0

Bottom of Core - - - - - 850.0

Top of Sand - - - - - 844.0

Bottom of Sand - - - - - 850.0

Total Feet of Permeable Sand - - - - - 4.9

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0.22 - 0.76

4.2

4.2

0.76 & Above

0.7

4.9

Average Permeability Millidarcys - - - - - 1.1

Average Percent Porosity - - - - - 15.7

Average Percent Oil Saturation - - - - - 40.0

Average Percent Water Saturation - - - - - 44.4

Average Oil Content, Bbls./A. Ft. - - - - - 491.

Total Oil Content, Bbls./Acre - - - - - 2,401.

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

Name Evans R. Mynatt Lease Mynatt Well No. 3

<u>Depth Interval, Feet</u>	<u>Description</u>
844.0 - 844.9	Gray and light brown laminated shale and sandstone.
844.9 - 845.6	Brown shaly sandstone.
845.6 - 846.0	Gray shale.
846.0 - 846.4	Brown shaly sandstone.
846.4 - 846.8	Gray shale.
846.8 - 848.6	Brown shaly sandstone.
848.6 - 848.9	Gray shale.
848.9 - 850.0	Brown and gray laminated sandstone and shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE I-B

Company Evans R. Mynatt Lease Mynatt Well No. 3

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation		Oil Content Bbbs. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water			Ft.	Cum. Ft.		
1	844.3	14.4	40	44	447	0.22	0.9	0.9	402	0.20
2	845.3	14.6	34	56	385	5.2	0.7	1.6	270	3.64
3	846.3	15.3	35	53	415	0.48	0.4	2.0	166	0.19
4	847.4	14.7	35	55	399	0.76	1.0	3.0	399	0.76
5	848.4	16.6	43	41	554	0.57	0.8	3.8	435	0.46
6	849.4	17.8	48	27	663	0.27	1.1	4.9	729	0.30

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Evans R. Mynatt Lease Mynatt Well No. 3

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
844.0 - 850.0	4.9	1.1	5.55

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 Bbl./Acre
844.0 - 850.0	4.9	15.7	40.0	44.4	491	2,401