



OILFIELD RESEARCH LABORATORIES

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

December 28, 1979

Susmio Oil Company
P.O. Box 233
Yates Center, Kansas 66783

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the E.E. Light Lease, Well No. 13-G, Woodson County, Kansas, and submitted to our laboratory on December 18, 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/tem
3 c to Yates Center, Kansas

- REGISTERED ENGINEERS -

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

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GENERAL INFORMATION & SUMMARY

Company Susmio Oil Company Lease E.E. Light Well No 13-C

Location 1100' EWL & 1540' NSL

Section 8 Twp. 25S Rge. 16E County Woodson State Kansas

Name of Sand - - - - - Squirrel

Top of Core - - - - - 954.0

Bottom of Core - - - - - 969.0

Top of Sand - - - - - 954.0

Bottom of Sand - - - - - (Tested) 960.0

Total Feet of Permeable Sand - - - - - 2.9

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 2 0.6 0.6

60 & Above 2.3 2.9

Average Permeability Millidarcys - - - - - 52.4

Average Percent Porosity - - - - - 15.0

Average Percent Oil Saturation - - - - - 50.5

Average Percent Water Saturation - - - - - 32.7

Average Oil Content, Bbls./A. Ft. - - - - - 605.

Total Oil Content, Bbls./Acre - - - - - 1,755.

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 Susmio Oil Company Lease E.E. Light Well No. 13-C

Depth Interval,
Feet

Description

954.0 - 954.6	Gray and light brown laminated shale and sandstone.
954.6 - 956.5	Brown laminated shaly sandstone.
956.5 - 959.6	Gray sandy shale.
959.6 - 960.0	Brown shaly sandstone.
960.0 - 964.5	Gray sandy shale.
964.5 - 969.0	Dark carbonaceous very shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Susmio Oil Company Lease E.E. Light Well No. 13-C

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	954.5	11.8	23	67	90	211	1.6	0.6	0.6	127	0.96
2	955.5	17.1	57	20	77	758	61.	1.0	1.6	758	61.00
3	956.3	14.2	61	29	90	672	72.	0.9	2.5	605	64.80
4	959.7	16.4	52	21	73	662	63.	0.4	2.9	265	25.20

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Susmio Oil Company	Lease	E.E. Light	Well No.	13-C
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
954.0 - 960.0	2.9	52.4	151.96		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Total Oil Content Bbbl./Acre
954.0 - 960.0	2.9	15.0	50.5	32.7	605
					1,755