



OILFIELD RESEARCH LABORATORIES

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

December 13, 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. & C.B. Light Lease, Well No. 11-A, Woodson County, Kansas, and submitted to our laboratory on December 5, 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

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. & C. B. Light Well No. 11-A

Location 660' EWL & 220' SNL

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

Name of Sand - - - - - Squirrel

Top of Core - - - - - 909.0

Bottom of Core - - - - - 926.0

Top of Sand - - - - - 909.0

Bottom of Sand - - - - - 917.9

Total Feet of Permeable Sand - - - - - 5.2

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 2 1.9 1.9

4 - 6 0.9 2.8

135 & Above 2.4 5.2

Average Permeability Millidarcys - - - - - 80.9

Average Percent Porosity - - - - - 16.1

Average Percent Oil Saturation - - - - - 47.7

Average Percent Water Saturation - - - - - 35.6

Average Oil Content, Bbls./A. Ft. - - - - - 632.

Total Oil Content, Bbls./Acre - - - - - 3,411.

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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LOGName Susmio Oil Company Lease E.E. & C.B. Light Well No. 11-A

<u>Depth Interval, Feet</u>	<u>Description</u>
909.0 - 910.6	Brown and gray laminated sandstone and shale.
910.6 - 911.5	Gray sandy shale.
911.5 - 912.1	Brown and gray laminated sandstone and shale.
912.1 - 912.8	Gray sandy shale.
912.8 - 913.1	Gray and brown laminated shale and sandstone.
913.1 - 913.5	Gray sandy shale.
913.5 - 913.8	Brown and gray laminated sandstone and shale.
913.8 - 915.9	Brown sandstone.
915.9 - 916.4	Gray sandy shale.
916.4 - 916.7	Brown sandstone.
916.7 - 917.7	Gray sandy shale.
917.7 - 917.9	Brown shaly sandstone.
917.9 - 926.0	Gray sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Susmio Oil Company Lease E.E. & C.B. Light Well No. 11-A

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	909.5	13.2	33	37	90	338	0.17	1.0	1.0	338	0.17
2	910.5	11.9	25	66	91	231	1.0	0.6	1.6	139	0.60
3	911.6	14.6	48	46	94	544	5.8	0.6	2.2	326	3.48
4	912.9	14.2	49	46	95	540	4.7	0.3	2.5	162	1.41
5	913.6	16.5	50	42	92	640	1.5	0.3	2.8	192	0.45
6	914.6	18.4	59	24	83	842	169.	1.1	3.9	926	185.90
7	915.5	20.5	65	16	81	1034	188.	1.0	4.9	1034	188.00
8	916.5	19.5	60	25	85	908	135.	0.3	5.2	272	40.50
9	917.8	9.7	15	60	75	112	Imp.	0.2	5.4	22	0.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Susmio Oil Company	Lease	E.E. & C.B. Light	Well No.	11-A
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
909.0 - 917.9	5.2	80.9	420.51		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Total Oil Content Bbls./Acre
909.0 - 917.9	5.4	16.1	47.7	35.6	3,411
				632	