



OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS - PHONE HE1-2650

May 27, 1968

Susmio Oil Company
407 Insurance Building
Wichita, Kansas 67200

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the B. & E. Light Lease, Well No. 7-A, Woodson County, Kansas, and submitted to our laboratory on May 25, 1968.

This core is from a virgin territory and was sampled and the samples were sealed in plastic bags by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:bje

5 c. - Wichita, Kansas

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company	<u>Susmie Oil Company</u>		Lease	<u>B. & E. Light</u>		Well No.	<u>7-A</u>
Location	<u>NE, SE, NE, 220' SNL & 220' EWL</u>						
Section	<u>16</u>	Twp.	<u>25S</u>	Rge.	<u>16E</u>	County	<u>Woodson</u>
						State	<u>Kansas</u>
Name of Sand							Squirrel
Top of Core							915.0
Bottom of Core							921.5
Top of Sand	(According to driller)						914.0
Bottom of Sand							921.0
Total Feet of Permeable Sand	(Analyzed)						5.0
Total Feet of Floodable Sand							
Distribution of Permeable Sand:							
Permeability Range	Feet						Cum. Ft.
Millidarcys							
0 - 5	1.8						1.8
5 - 100	2.1						3.9
100 & above	1.1						5.0
Average Permeability Millidarcys							63.3
Average Percent Porosity							18.8
Average Percent Oil Saturation							56.2
Average Percent Water Saturation							32.6
Average Oil Content, Bbls./A. Ft.							842.
Total Oil Content, Bbls./Acre							5,050.
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 Susmie Oil Company Lease B. & E. Light Well No. 7-A

Depth Interval, Description
<u>Feet</u>

915.0 - 917.5 - Brown laminated shaly sandstone.

917.5 - 919.8 - Brown slightly shaly sandstone.

919.8 - 921.0 - Dark brown shaly sandstone.

921.0 - 921.5 - Sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Susmio Oil Company Lease B. & E. Light Well No. 7-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	915.1	16.0	49	43	92	609	0.63	0.6	0.6	365	0.38
2	916.1	16.2	47	47	94	591	Imp.	1.0	1.6	591	0.00
3	917.1	17.3	46	50	96	618	22.	0.9	2.5	556	19.80
4	918.1	20.4	65	13	78	1028	178.	1.1	3.6	1132	195.70
5	919.1	24.5	71	15	86	1351	80.	1.2	4.8	1621	96.00
6	920.1	16.2	52	38	90	654	3.1	1.2	6.0	785	3.72