

OILFIELD RESEARCH LABORATORIES

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

8-25-10E

November 12 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 Earl Schornick Lease, Well No. 1, Woodson County, Kansas, and submitted to our laboratory on November 11, 1968.

This core is from a virgin territory and was sampled and sealed in plastic bags by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:dp

2 c. - Wichita, Kansas
1 c. - Yates Center, Kansas

Earl Schornick 1

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Susmie Oil Company Lease Earl Schornich Well No. 1

Location 220' SNL & 220' WEL, SW/4

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

Name of Sand	Squirrel
Top of Core	945.0
Bottom of Core	959.0
Top of Sand (Cored)	945.0
Bottom of Sand	955.0
Total Feet of Permeable Sand (Analyzed)	9.8
Total Feet of Floodable Sand	

Distribution of Permeable Sand:
Permeability Range
Millidarcys

	Feet	Cum. Ft.
0 - 50	3.7	3.7
50 - 100	4.6	8.3
100 & above	1.5	9.8

Average Permeability Millidarcys	60.4
Average Percent Porosity	20.8
Average Percent Oil Saturation	60.4
Average Percent Water Saturation	16.9
Average Oil Content, Bbls./A. Ft.	972.
Total Oil Content, Bbls./Acre	9,528.
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 Earl Schornick Well No. 1

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
945.0 - 948.0	Dark brown fine grained micaceous sandstone.
948.0 - 948.2	Dark brown fine grained micaceous shaly sandstone.
948.2 - 953.3	Dark brown fine grained micaceous sandstone.
953.3 - 955.0	Dark brown fine grained micaceous slightly shaly sandstone.
955.0 - 955.5	Dark gray sandy shale with slight bleeding.
955.5 - 959.0	Dark gray sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Susmo Oil Company Lease Earl Schornick Well No. 1

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	945.1	19.7	65	13	78	993	79	0.6	0.6	596	47.40
2	946.1	17.1	65	13	78	862	21	1.0	1.6	862	21.00
3	947.1	22.0	59	17	76	1007	58	1.4	3.0	1410	81.20
4	948.3	22.9	54	15	69	960	107	0.5	3.5	480	53.50
5	949.1	21.5	54	16	70	901	61	0.9	4.4	811	54.90
6	950.1	19.6	64	16	70	973	105	1.0	5.4	973	105.00
7	951.1	19.8	56	19	75	860	39	1.0	6.4	860	39.00
8	952.1	21.7	52	16	68	875	98	1.0	7.4	875	98.00
9	953.1	23.7	61	13	74	1122	92	0.7	8.1	785	64.40
10	954.1	20.9	68	23	91	1103	16	1.7	9.8	1876	27.20

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Well No.			
Susmlo Oil Company	Earl Schornick	1			
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
945.0 - 950.6	5.4	67.2	363.00		
950.6 - 955.0	4.4	52.0	228.60		
945.0 - 955.0	9.8	60.4	591.60		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
945.0 - 950.6	5.4	20.4	15.3	950	5,132
950.6 - 955.0	4.4	21.3	18.9	999	4,396
945.0 - 955.0	9.8	20.8	16.9	972	9,528

OIL CONTENT,
BBLs./A. FT.

WATER SAT.,
PERCENT

OIL SAT.,
PERCENT

AIR PERMEABILITY, IN MILLIDARCY


1000 800 600 400 200

10 20 30 40 50 60 70

945
946
947
948
949
950
951
952
953
954
955
956

 SANDSTONE

 SHALY SANDSTONE

 SANDY SHALE

SUSMIO OIL COMPANY

EARL SCHORNICK LEASE

WELL NO. 1

WOODSON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVG. OIL CONTENT BBLs./A. FT.	TOTAL OIL CONTENT BBLs./ACRE	AVG. AIR PERMEABILITY MILLIDARCYs
945.0 - 950.5	5.4	20.4	60.4	15.3	950	5,132	67.2
950.6 - 955.0	4.4	21.3	60.5	18.9	909	4,396	52.0
945.0 - 955.0	9.8	20.8	60.4	16.9	972	9,528	60.4

OILFIELD RESEARCH
CHANUTE, KANSAS
NOVEMBER, 1968

WATER SAT.,
PERCENT

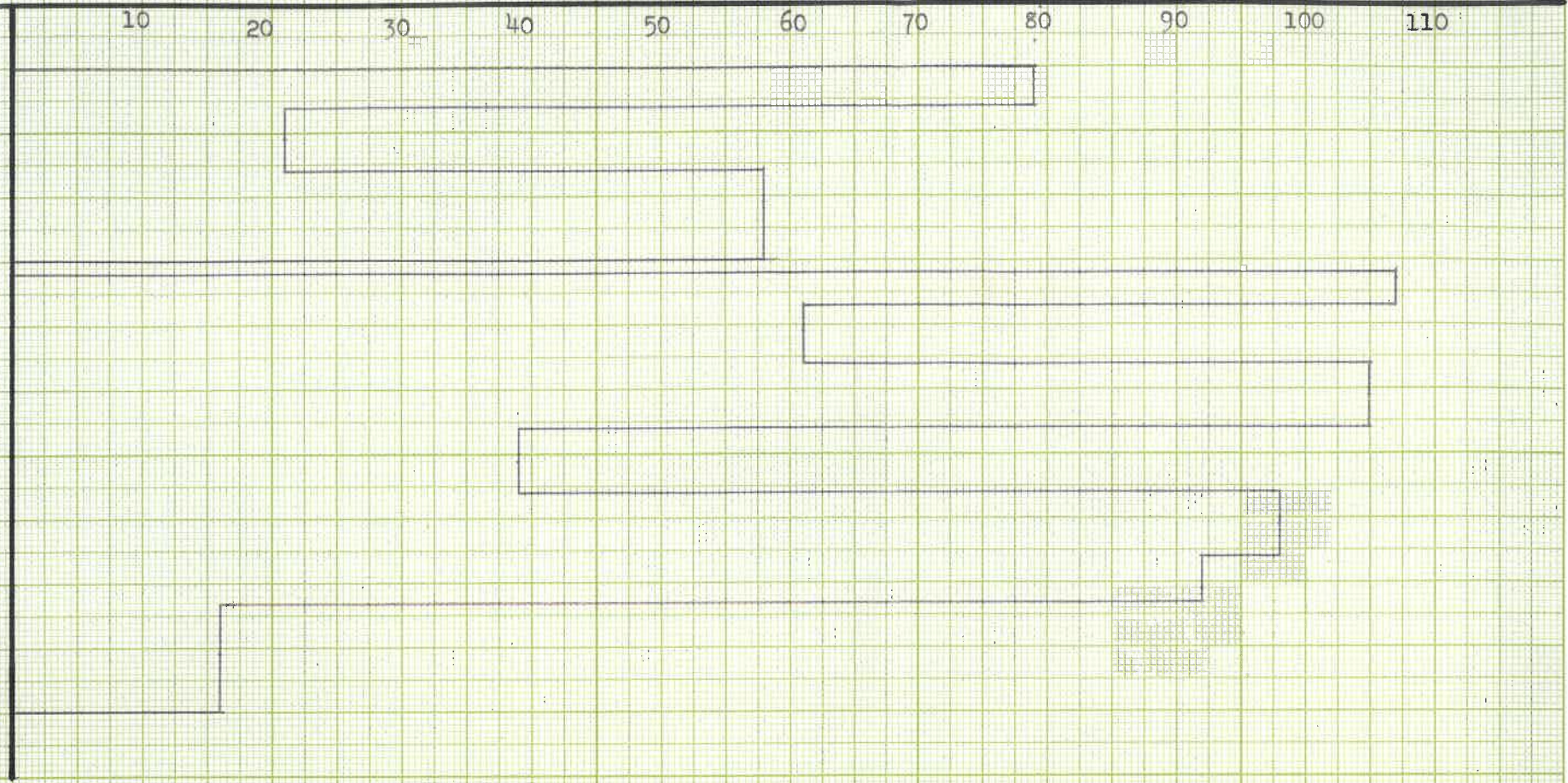
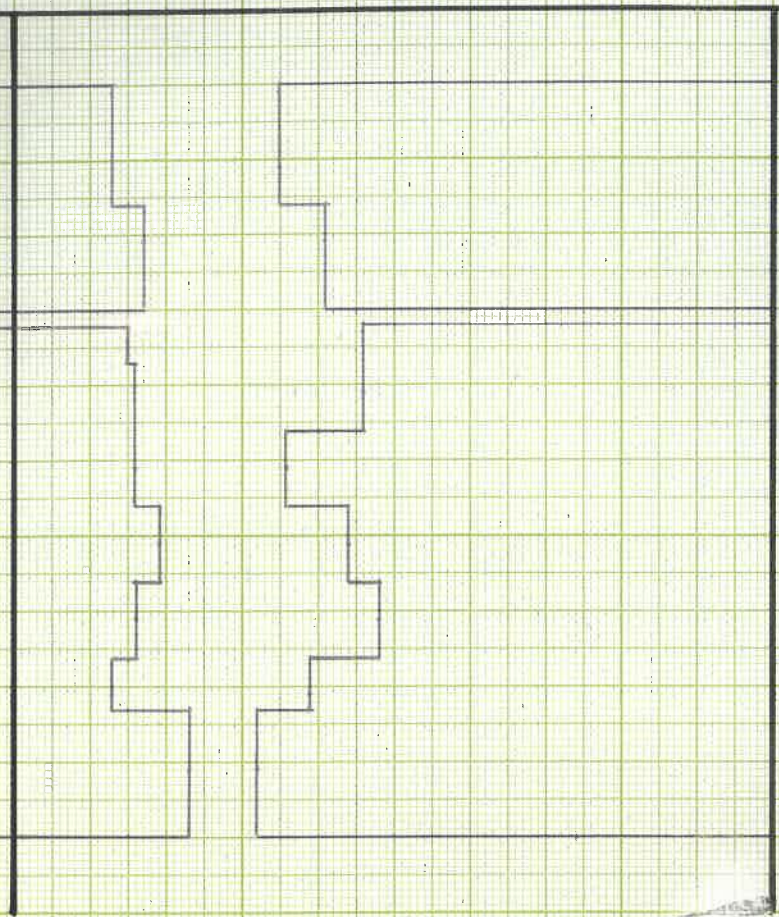
OIL SAT.,
PERCENT

AIR PERMEABILITY, IN MILLIDARCY


00

10 20 30 40 50 60 70 80 90 100 110

945
946
947
948
949
950
951
952
953
954
955
956



 SHALY SANDSTONE

 SANDY SHALE

SUSMIO OIL COMPANY

EARL SCHORNICK LEASE

WELL NO. 1

WOODSON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVG. OIL CONTENT BBL./A.FT.	TOTAL OIL CONTENT BBL./ACRE	AVG. AIR PERMEABILITY MILLIDARCY
945.0 - 950.6	5.4	20.4	60.4	15.3	950	5.132	67.2
950.6 - 955.0	4.4	21.3	60.5	18.9	999	4.396	52.0
945.0 - 955.0	9.8	20.8	60.4	16.9	972	9.528	60.4

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