



OILFIELD RESEARCH LABORATORIES

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

March 27, 1979

Marvin Strobels
Richmond, Kansas 66080

Dear Sir:

Enclosed herewith are the results of tests run on the rotary core taken from the Strobels-Fee Lease, Well No. 10, Miami County, Kansas, and submitted to our laboratory on March 21, 1979.

The core was sampled by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

SAM:km
5 c to Richmond, Kansas

- REGISTERED ENGINEERS -

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

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GENERAL INFORMATION & SUMMARY

Company Marvin Strobel Lease Strobel-Fee Well No 10

Location _____

Section 17 Twp 17S Rge 23E County Miami State Kansas

Name of Sand	Peru
Top of Core	337.0
Bottom of Core	349.8
Top of Sand	337.0
Bottom of Sand	345.8
Total Feet of Permeable Sand	5.9
Total Feet of Floodable Sand	

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 5
5 - 10
10 - 30

1.8
3.1
1.0

1.8
4.9
5.9

Average Permeability Millidarcys	9.6
Average Percent Porosity	13.9
Average Percent Oil Saturation	29.7
Average Percent Water Saturation	61.0
Average Oil Content, Bbls./A. Ft.	317.
Total Oil Content, Bbls./Acre	2,375.
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 Marvin Strobel Lease Strobel - Fee Well No. 10

<u>Depth Interval, Feet</u>	<u>Description</u>
337.0 - 338.0	Brown slightly calcareous sandstone.
338.0 - 338.6	Light brown slightly shaly sandstone.
338.6 - 339.2	Brown and gray laminated sandstone and shale.
339.2 - 339.8	Brown slightly calcareous sandstone.
339.8 - 341.1	Brown and gray laminated slightly calcareous sandstone and shale.
341.1 - 341.8	Brown slightly calcareous sandstone.
341.8 - 343.4	Brown and gray laminated calcareous sandstone and shale.
343.4 - 343.9	Brown slightly calcareous sandstone.
343.9 - 344.6	Gray laminated calcareous sandstone and shale.
344.6 - 345.8	Brown slightly shaly and slightly calcareous sandstone.
345.8 - 346.5	Gray and brown laminated calcareous sandstone and shale.
346.5 - 347.3	Gray limestone.
347.3 - 349.8	Gray shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Marvin Strobel Lease Strobel-Free Well No. 10

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 ind.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	337.5	14.9	31	65	96	358	28.	1.0	1.0	358	28.00
2	338.4	15.6	17	79	96	206	4.1	0.6	1.6	124	2.46
3	339.4	15.2	38	43	81	448	6.0	0.6	2.2	269	3.60
4	340.6	14.8	15	80	95	172	6.1	1.3	3.5	224	7.93
5	341.6	13.7	35	50	85	372	9.0	0.7	4.2	260	6.30
6	342.8	14.4	38	56	94	425	Imp.	1.6	5.8	680	0.00
7	343.7	12.5	29	52	81	281	9.0	0.5	6.3	141	4.50
8	344.8	9.6	36	41	77	268	0.56	0.4	6.7	107	0.22
9	345.5	11.0	31	60	91	265	4.9	0.8	7.5	212	3.92

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Marvin Strobel	Lease	Strobel - Fee	Well No.	10
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
337.0 - 345.8	5.9	9.6	56.93		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
337.0 - 345.8	7.5	13.9	29.7	61.0	317
					2,375