

OILFIELD RESEARCH LABORATORIES

813 EAST SIXTH
OKMULGEE, OKLAHOMA
PHONE: 4444

- REGISTERED ENGINEERS -

Chanute, Kansas

536 N. HIGHLAND
CHANUTE, KANSAS
PHONE: 728

April 18, 1961

Mr. Mack C. Colt
Iola, Kansas

Dear Sir:

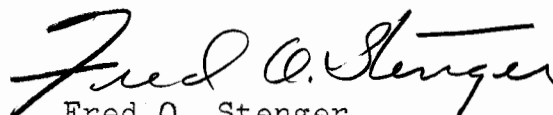
Enclosed herewith are the results of tests run on the Rotary core taken from the Floyd Kelly Lease, Well No. 1-AO, Allen County, Kansas, and submitted to our laboratory on March 17, 1961.

This core was sampled and sealed in cans by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

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Fred O. Stenger

FOS:db

2 c.

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GENERAL INFORMATION & SUMMARY

Company Mack C. Colt Lease Floyd Kelly Well No. 1-A0

Location 1160' from E Line & 220' from N Line, NE $\frac{1}{4}$

Section 3 Twp. 24S Rge. 18E County Allen State Kansas

Name of Sand	- - - - -	?
Top of Core	- (Received) - - - - -	949.4
Bottom of Core	- (Received) - - - - -	977.2
Top of Sand	- - - - -	?
Bottom of Sand	- - - - -	?
Effective		
Total Feet of/Permeable Sand	- (Analyzed) - - - - -	6.4
Total Feet of Floodable Sand	- - - - -	-

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

Effective		
Average/Permeability Millidarcys	- - - - -	0.203
Average Percent Porosity	- - - - -	18.9
Average Percent Oil Saturation	- - - - -	36.7
Average Percent Water Saturation	- - - - -	41.4
Average Oil Content, Bbls./A. Ft.	- - - - -	536.
Total Oil Content, Bbls./Acre	- - - - -	9,979.
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	- - - - -	990.9

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LOG

Company Mack C. Colt Lease Floyd Kelly Well No. 1-AO

Depth Interval, Description
Feet

949.4 - 952.0 - Brown sandstone.

952.0 - 954.0 - Brown laminated shaley sandstone.

954.0 - 977.2 - Brown laminated slightly shaley sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Mack C. Colt Lease Floyd Kelly Well No. 1-AO

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	949.4	21.6	25	39	64	420	0.100	1.0	1.0	420	0.100
2	951.3	20.8	39	31	70	630	0.200	1.0	2.0	630	0.200
3	953.1	14.5	32	59	91	360	Imp.	1.1	3.1	396	0.00
4	954.4	21.0	35	36	71	570	0.300	1.2	4.3	684	0.360
5	955.5	18.6	43	38	81	620	0.100	1.1	5.4	682	0.110
6	957.8	19.0	40	35	75	590	Imp.	1.1	6.5	649	0.00
7	959.1	17.8	37	40	77	512	Imp.	1.2	7.7	614	0.00
8	960.6	16.4	34	49	83	433	Imp.	1.0	8.7	433	0.00
9	961.9	18.0	32	36	68	447	Imp.	1.0	9.7	447	0.00
10	963.9	17.5	34	46	80	462	Imp.	1.0	10.7	462	0.00
11	966.1	18.7	35	42	77	507	Imp.	1.1	11.8	558	0.00
12	967.3	20.1	39	37	76	544	0.300	1.1	12.9	598	0.330
13	969.1	20.6	44	37	81	702	0.200	1.0	13.9	702	0.200
14	971.5	19.1	43	46	89	637	Imp.	1.0	14.9	637	0.00
15	973.0	18.0	35	46	81	489	Imp.	1.0	15.9	489	0.00
16	974.1	18.5	36	47	83	517	Imp.	1.0	16.9	517	0.00
17	975.9	19.0	41	41	82	605	Imp.	1.0	17.9	605	0.00
18	977.1	20.5	37	41	78	652	Imp.	0.7	18.6	456	0.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III - B

Company	Mack C. Colt	Lease	Floyd Kelly	Well No.	1-AO
Depth Interval, Feet	Feet of Core Analyzed	Average Effective Permeability, Millidarcys	Effective Permeability Capacity Ft. x Md.		
949.4 - 969.6	6.4	0.203	1.300		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Total Oil Content Bbls./Acre
949.4 - 977.2	18.6	18.9	36.7	41.4	9,979