

OILFIELD RESEARCH LABORATORIES

- REGISTERED ENGINEERS -

700 NORTH MISSION
OKMULGEE, OKLAHOMA
PHONE: 4444

Chanute, Kansas

536 N. HIGHLAND
CHANUTE, KANSAS
PHONE: HE 1-2650

August 3, 1962

Mack C. Colt
Erie, Kansas

Dear Sir:

Enclosed herewith are the results of tests run on the Rotary core samples taken from the Ulrich Lease, Well No. 1-AO, Allen County, Kansas, and submitted to our laboratory on July 28, 1962.

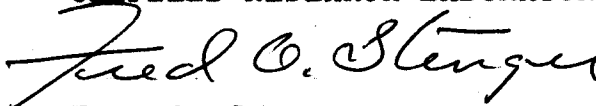
This core was sampled and the samples sealed in cans by a representative of the client.

The log enclosed in this report was submitted to us by the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES



Fred O. Stenger

FOS:rf

2 c.

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company	Mack C. Colt		Lease	Ulrich		Well No.	1-AO
Location	165' from South line & 165' from West line E $\frac{1}{2}$, NE $\frac{1}{4}$						
Section	28	Twp.	23S	Rge.	18E	County	Allen State Kansas
Name of Sand							Bartlesville
Top of Core	(According to log)						1029.0
Bottom of Core	(According to log)						1128.0
Top of Sand							1035.2
Bottom of Sand							?
Total Feet of Effective Permeable Sand	(Analyzed)						22.0
Total Feet of Floodable Sand							-
Distribution of Effective Permeable Sand:							
Permeability Range Millidarcys			Feet			Cum. Ft.	
0 - 1.0			12.0			12.0	
1.0 - 4.0			7.0			19.0	
4.0 & above			3.0			22.0	
Average Permeability Millidarcys	-(Effective)						1.43
Average Percent Porosity							19.6
Average Percent Oil Saturation							32.6
Average Percent Water Saturation							41.1
Average Oil Content, Bbls./A. Ft.							498.
Total Oil Content, Bbls./Acre							
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							1088.7

Oilfield Research Laboratories
RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

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	1048.1	21.5	27	36	63	450	Imp.	1.0	1.0	450	0.00
2	1049.1	17.6	33	45	78	451	Imp.	1.0	2.0	451	0.00
3	1051.1	17.6	36	41	77	492	Imp.	1.0	3.0	492	0.00
4	1052.1	17.9	34	42	76	411	0.800	1.0	4.0	411	0.80
5	1054.1	20.5	29	39	68	461	5.90	1.0	5.0	461	5.90
6	1055.1	20.7	23	42	65	370	2.70	1.0	6.0	370	2.70
7	1057.1	19.0	28	43	71	413	0.300	1.0	7.0	413	0.30
8	1058.1	15.1	27	56	83	316	0.100	1.0	8.0	316	0.10
9	1059.1	20.1	37	34	71	577	1.00	1.0	9.0	577	1.00
10	1061.4	20.2	34	37	71	464	1.20	1.0	10.0	464	1.20
11	1063.3	21.1	38	29	67	622	0.400	1.0	11.0	622	0.40
12	1064.3	18.7	37	41	78	537	Imp.	1.0	12.0	537	0.00
13	1066.1	19.6	38	35	73	578	0.400	1.0	13.0	578	0.40
14	1067.1	20.1	37	33	70	576	0.500	1.0	14.0	576	0.50
15	1069.1	19.5	29	39	68	438	0.600	1.0	15.0	438	0.60
16	1070.3	20.2	23	39	62	360	1.40	1.0	16.0	360	1.40
17	1071.4	20.1	26	36	62	405	1.10	1.0	17.0	405	1.10
18	1073.1	19.6	36	41	77	548	Imp.	1.0	18.0	548	0.00
19	1074.1	19.9	16	52	68	247	1.40	1.0	19.0	247	1.40
20	1076.1	20.2	13	50	63	204	4.80	1.0	20.0	204	4.80
21	1079.1	19.5	38	48	78	575	Imp.	1.0	21.0	575	0.00
22	1080.1	21.0	42	36	78	684	0.400	1.0	22.0	684	0.40
23	1083.1	19.6	43	30	73	654	Imp.	1.0	23.0	654	0.00
24	1086.1	20.5	44	33	77	700	Imp.	1.0	24.0	700	0.00
25	1088.1	20.0	45	37	82	699	Imp.	1.0	25.0	699	0.00
26	1089.1	21.3	47	31	78	775	Imp.	1.0	26.0	775	0.00
27	1091.1	17.2	33	55	88	441	Imp.	1.0	27.0	441	0.00
28	1092.1	21.7	37	34	71	623	1.10	1.0	28.0	623	1.10
29	1094.1	20.2	37	39	76	580	0.300	1.0	29.0	580	0.30

Company Mack C. Colt

Lease Ulrich

Well No. 1-AO

(Effective) (Effective)

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Mack C. Colt Lease Ulrich 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		Total			Ft.	Cum. Ft.		
			Oil	Water							
30	1095.1	20.8	34	34	68	549	0.900	1.0	30.0	549	0.90
31	1097.1	20.1	32	38	70	499	0.800	1.0	31.0	499	0.80
32	1101.1	20.7	40	39	79	643	Imp.	1.0	32.0	643	0.00
33	1104.1	14.5	16	63	79	180	Imp.	1.0	33.0	180	0.00
34	1107.1	19.2	38	46	84	566	0.200	1.0	34.0	566	0.20
35	1110.1	18.2	25	52	77	353	Imp.	1.0	35.0	353	0.00
36	1112.1	22.4	36	37	73	626	Imp.	1.0	36.0	626	0.00
37	1115.1	22.4	21	49	70	365	5.10	1.0	37.0	365	5.10

(Effective)

(Effective)

Oilfield Research Laboratories

SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Mack C. Colt	Lease	Ulrich	Well No.	1-AO
Depth Interval, Feet	Feet of Core Analyzed	(Effective) Average Permeability, Millidarcys	(Effective) Permeability Capacity Ft. x Md.		
1051.6 - 1063.8	8.0	1.55	12.40		
1065.6 - 1076.6	7.0	1.46	10.20		
1079.6 - 1115.6	7.0	1.26	8.80		
1051.6 - 1115.6	22.0	1.43	31.40		
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Total Oil Content Bbls./Acre
1047.6 - 1063.8	11.0	19.2	31.5	40.4	458
1063.8 - 1076.6	9.0	19.8	28.3	40.7	433
1076.6 - 1115.6	17.0	20.0	35.7	41.2	558
1047.6 - 1115.6	37.0	19.6	32.6	41.1	498