

OILFIELD RESEARCH LABORATORIES

813 EAST SIXTH
OKMULSEE, OKLAHOMA
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- REGISTERED ENGINEERS -

Chanute, Kansas

536 N. HIGHLAND
CHANUTE, KANSAS
PHONE 728

April 20, 1961

Mr. B.W. Klippel, Jr.
620 North McKnight Road
Clayton 5, Missouri

Dear Sir:

Enclosed herewith are the results of tests run on the Cable Tool core taken from the Nelson "A" Lease, Well No. 11, Allen County, Kansas, and submitted to our laboratory on April 15, 1961.

This core was sampled and the samples sealed in cans by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Benjamin R. Pearman

BRP:db

1 c. - Oilfield Management Corp., Inc.

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company B.W. Klippel Lease Nelson "A" Well No. 11

Location _____

Section 32 Twp. 20S Rge. 26E County Allen State Kansas

26 20

Name of Sand	-	Bartlesville
Top of Core	-	822.0
Bottom of Core	-	849.5
Top of Sand	-	822.0
Bottom of Sand	-	849.5
Total Feet of Permeable Sand	-	19.9
Total Feet of Floodable Sand	-	-

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 5.00	10.1	10.1
5.00 - 50.00	7.3	17.4
50.00 - 100.00	1.5	18.9
100.00 & above	1.0	19.9

Average Permeability Millidarcys	Effective	21.50
Average Percent Porosity	-	20.0
Average Percent Oil Saturation	-	38.0
Average Percent Water Saturation	-	45.7
Average Oil Content, Bbls./A. Ft.	-	587.
Total Oil Content, Bbls./Acre	-	15,863.
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	Ground	1011.1

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LOG

Company B.W. Klippel Lease Nelson "A" Well No. 11

Depth Interval, Description
Feet

822.0 - 834.9 - Soft brown sandstone.

834.9 - 835.4 - Laminated sandy shale.

835.4 - 849.5 - Brown slightly shaley sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company B.W. Klippel

Lease Nelson "A"

Well No. 11

Effective

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	822.1	18.9	46	30	76	674	58.29	0.5	0.5	337	29.15
2	823.1	18.3	48	31	79	681	2.42	1.1	1.6	750	2.66
3	824.1	17.6	47	30	77	642	10.22	1.0	2.6	642	10.22
4	825.1	19.0	41	28	69	604	1.96	1.0	3.6	604	1.96
5	826.1	19.4	48	33	81	722	1.27	1.0	4.6	722	1.27
6	827.1	21.6	37	50	87	619	24.40	1.0	5.6	619	24.40
7	828.1	22.2	39	46	85	671	73.80	1.0	6.6	671	73.80
8	829.1	21.6	32	48	80	535	34.40	1.0	7.6	535	34.40
9	830.1	21.2	30	51	81	493	104.99	1.0	8.6	493	104.99
10	831.1	21.8	34	51	85	575	43.40	1.0	9.6	575	43.40
11	832.1	21.6	36	49	85	603	30.00	1.0	10.6	603	30.00
12	833.1	18.8	36	49	85	524	17.46	1.0	11.6	524	17.46
13	834.1	21.1	38	48	86	621	34.28	1.3	12.9	807	44.55
15	836.1	19.7	44	51	95	671	Imp.	1.2	14.1	805	0.00
16	837.1	19.3	41	43	84	614	0.293	1.0	15.1	614	0.293
17	838.1	19.3	38	47	85	569	Imp.	1.0	16.1	569	0.00
18	839.1	19.8	49	40	89	752	Imp.	1.0	17.1	752	0.00
19	840.1	19.2	43	46	89	640	Imp.	1.0	18.1	640	0.00
20	841.1	20.9	36	55	91	583	0.946	1.0	19.1	583	0.946
21	842.1	21.1	31	59	90	507	3.00	1.0	20.1	507	3.00
22	843.1	19.3	34	58	92	509	1.42	1.0	21.1	509	1.42
23	844.1	18.4	23	61	84	328	1.52	1.0	22.1	328	1.52
24	845.1	19.3	22	59	81	330	2.10	1.0	23.1	330	2.10
25	846.1	20.2	35	47	82	549	Imp.	1.0	24.1	549	0.00
26	847.1	19.9	37	43	80	570	0.318	1.0	25.1	570	0.318
27	848.1	19.9	42	41	83	648	Imp.	1.0	26.1	648	0.00
28	849.1	19.7	42	38	80	641	Imp.	0.9	27.0	577	0.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III -- B

Company	B.W. Klippel	Lease	Nelson "A"	Well No.	11	
	Depth Interval, Feet	Feet of Core Analyzed	Average Effective Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
	822.0 - 834.9	12.9	32.40	418.260		
	835.4 - 840.6	1.0	0.293	0.293		
	840.6 - 849.5	6.0	1.55	9.304		
	822.0 - 849.5	19.9	21.50	427.857		
	Depth Interval, Feet	Feet of Core Analyzed	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbbs./Acre
822.0 - 834.9	12.9	20.3	39.2	41.6	611	7,882
835.4 - 840.6	5.2	19.5	43.0	45.6	650	3,380
840.6 - 849.5	8.9	19.9	33.4	51.5	518	4,601
822.0 - 849.5	27.0	20.0	38.0	45.7	587	15,863