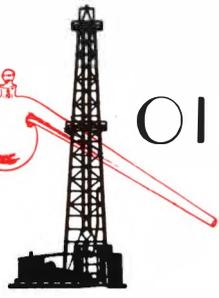


14-25-19E



OILFIELD RESEARCH LABORATORIES

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

January 6, 1966

Four States & Layton Oil Company
P.O. Box 263
Independence, Kansas

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the Scott Lease, Well No. R-8, Allen County, Kansas, and submitted to our Laboratory on December 31, 1965.

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

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

BRP:rf

5 c.

SCOTT R-8

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Four States & Layton Oil Co. Lease Scott Well No. R-8

Location _____

Section _____ Twp _____ Rge _____ County Allen State Kansas

Name of Sand	Bartlesville
Top of Core	847.0
Bottom of Core	904.0
Top of Sand	850.0
Bottom of Sand	894.6
Total Feet of Permeable Sand	32.9
Total Feet of Floodable Sand	

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 10	21.6	21.6
10 - 50	9.3	30.9
50 & above	2.0	32.9

Average Permeability Millidarcys	13.1
Average Percent Porosity	18.4
Average Percent Oil Saturation	49.2
Average Percent Water Saturation	30.2
Average Oil Content, Bbls./A. Ft.	720.
Total Oil Content, Bbls./Acre	24,636.
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	

OILFIELD RESEARCH LABORATORIES

-LOG-

Company Four States & Layton Oil Co. Lease Scott Well No. R-8

<u>Depth Interval,</u>	<u>Description</u>
<u>Feet</u>	

847.0 - 849.0 - Sandy shale.

849.0 - 850.0 - Laminated sandstone and shale.

850.0 - 861.6 - Dark brown, laminated, shaly sandstone.

861.6 - 863.0 - Gray shaly sandstone.

863.0 - 869.3 - Dark brown, laminated, shaly sandstone.

869.3 - 879.3 - Dark, carbonaceous, shaly sandstone.

879.3 - 881.0 - Dark, carbonaceous, calcareous sandstone.

881.0 - 883.7 - Gray shaly sandstone.

883.7 - 885.0 - Dark brown, slightly carbonaceous, shaly sandstone.

885.0 - 891.0 - Gray, laminated, shaly sandstone.

891.0 - 894.6 - Dark, carbonaceous, slightly shaly sandstone.

894.6 - 894.8 - Coal.

894.8 - 904.0 - Shale.

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Four States & Layton Oil Co. Lease Scott Well No. R-8

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	850.1	16.5	36	50	86	460	11.	0.6	0.6	276	6.60
2	851.1	19.2	37	35	72	551	4.5	1.0	1.6	551	4.50
3	852.1	16.9	36	49	85	471	1.3	1.0	2.6	471	1.30
4	853.1	18.6	37	34	71	534	7.1	1.0	3.6	534	7.10
5	854.1	14.4	47	28	75	525	4.8	1.0	4.6	525	4.80
6	855.1	14.4	47	32	79	525	11.	1.0	5.6	525	11.00
7	856.1	21.4	46	24	70	764	41.	1.0	6.6	764	41.00
8	857.1	19.3	41	41	82	613	8.0	1.0	7.6	613	8.00
9	858.1	16.8	27	70	97	352	10.	1.0	8.6	353	10.00
10	859.1	21.7	42	26	68	706	37.	1.0	9.6	706	37.00
11	860.1	17.1	39	35	74	516	55.	1.0	10.6	516	55.00
12	861.1	23.7	38	26	64	699	62.	1.0	11.6	699	62.00
13	862.1	11.6	14	75	89	126	Imp.	1.4	13.0	176	0.00
14	863.1	16.3	36	50	86	455	6.2	0.6	13.6	273	3.72
15	864.1	21.5	70	24	94	1168	3.1	1.0	14.6	1,168	3.10
16	865.1	18.3	62	32	94	880	1.7	1.0	15.6	880	1.70
17	866.1	19.2	49	35	84	730	5.5	1.0	16.6	730	5.50
18	867.1	21.6	64	22	86	1073	7.1	1.0	17.6	1,073	7.10
19	868.1	21.6	55	16	71	922	4.5	1.0	18.6	933	4.50
20	869.1	19.7	55	17	72	841	8.3	0.7	19.3	589	5.81
21	870.1	21.0	75	19	94	1222	6.7	1.3	20.6	1,590	8.71
22	871.1	19.7	61	22	83	933	1.8	1.0	21.6	933	1.80
23	872.1	19.7	67	15	82	1025	7.3	1.0	22.6	1,025	7.30
24	873.1	15.1	45	29	74	527	0.67	1.0	23.6	527	0.67

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Four States & Layton Oil Co. Lease Scott Well No. R-8

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.		
25	874.1	19.2	55	26	81	819	3.3	1.0	24.6	819	3.30
26	875.1	17.3	36	35	71	483	0.21	1.0	25.6	483	0.21
27	876.1	18.8	66	22	88	962	28.	1.0	26.6	962	28.00
28	877.1	18.3	53	28	81	752	22.	1.0	27.6	752	22.00
29	878.1	19.3	42	16	58	629	22.	1.0	28.6	629	22.00
30	879.1	18.0	48	28	76	670	11.	0.7	29.3	469	7.70
31	880.1	12.1	58	13	71	544	2.4	1.0	30.3	544	2.40
32	884.1	20.6	48	22	70	768	22.	1.0	31.3	768	22.00
33	892.1	21.6	66	20	86	1108	16.	1.0	32.3	1,108	16.00
34	893.1	21.5	61	18	79	1018	7.6	1.0	33.3	1,018	7.60
35	894.1	13.6	62	21	83	654	1.9	1.0	34.3	654	1.90
								Total-----		24,636	

Oilfield Research Laboratories

SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Four States & Layton Oil Co. Lease Scott Well No. R-8

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
850.0 - 869.3	17.9	15.6	279.73
869.3 - 894.6	15.0	10.1	151.59
850.0 - 894.6	32.9	13.1	431.32

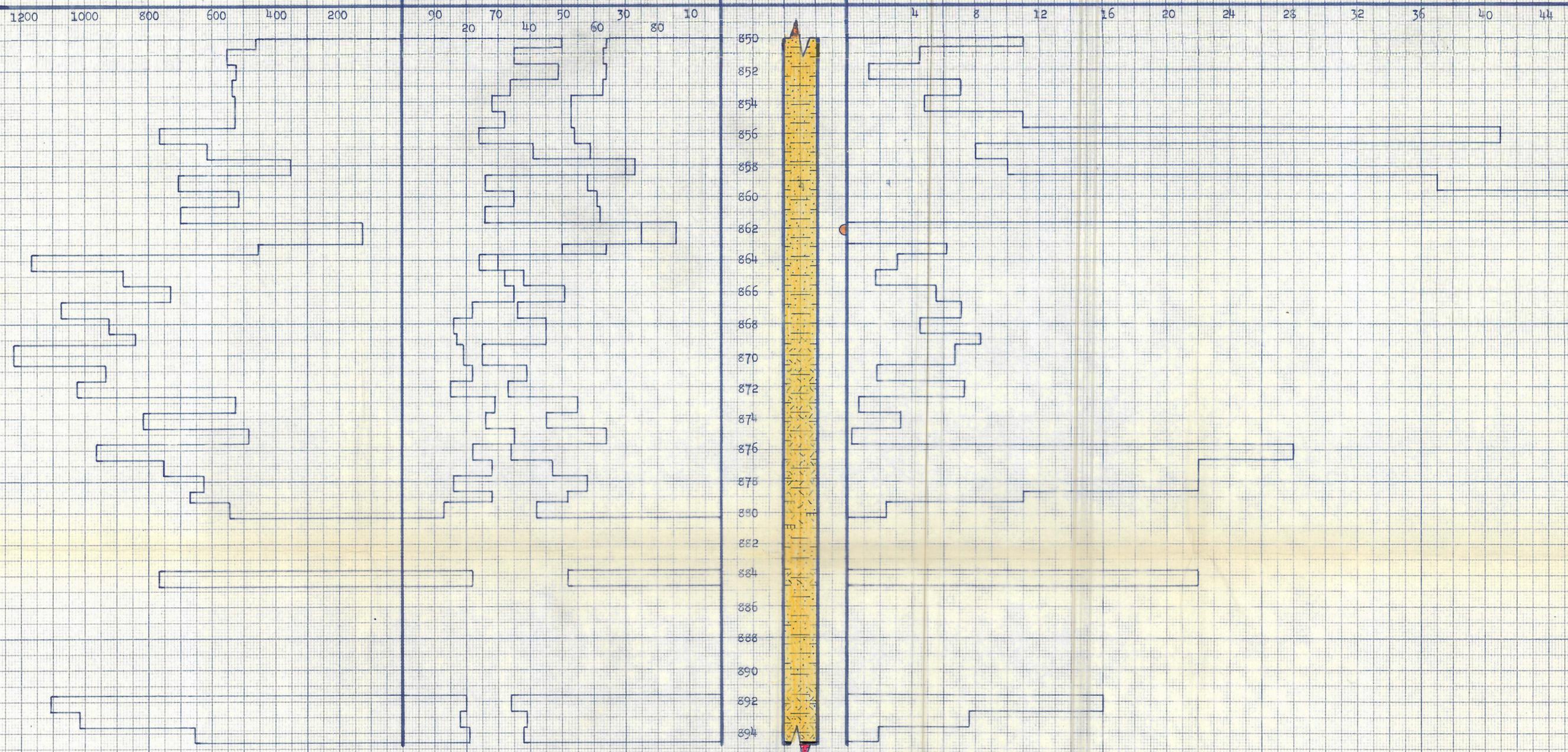
Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
850.0 - 869.3	19.3	18.4	43.9	36.6	640	12,355
869.3 - 894.6	15.0	18.5	56.8	22.0	819	12,281
850.0 - 894.6	34.3	18.4	49.2	30.2	720	24,636

OIL CONTENT,
BBLs./A. FT.

WATER SAT.,
PERCENT

OIL SAT.,
PERCENT

AIR PERMEABILITY, IN MILLIDARCYs



- SHALY SANDSTONE
- CALCAREOUS CARBONACEOUS SANDSTONE
- SHALE
- IMPERMEABLE TO AIR
- CARBONACEOUS SHALY SANDSTONE
- LAMINATED SANDSTONE & SHALE
- COAL

FOUR STATES & LAYTON OIL COMPANY

SCOTT LEASE

ALLEN COUNTY, KANSAS

WELL NO. R-3

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY, PERCENT	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVG. OIL CONTENT BBLs./A. FT.	TOTAL OIL CONTENT BBLs./ACRE	AVG. AIR PERMEABILITY, MILLIDARCYs
850.0 - 869.3	19.3	18.4	43.9	36.6	640	12,355	15.6
869.3 - 894.6	15.0	15.5	56.8	22.0	819	12,281	10.1
850.0 - 894.6	34.3	18.4	49.2	30.2	720	24,636	13.1

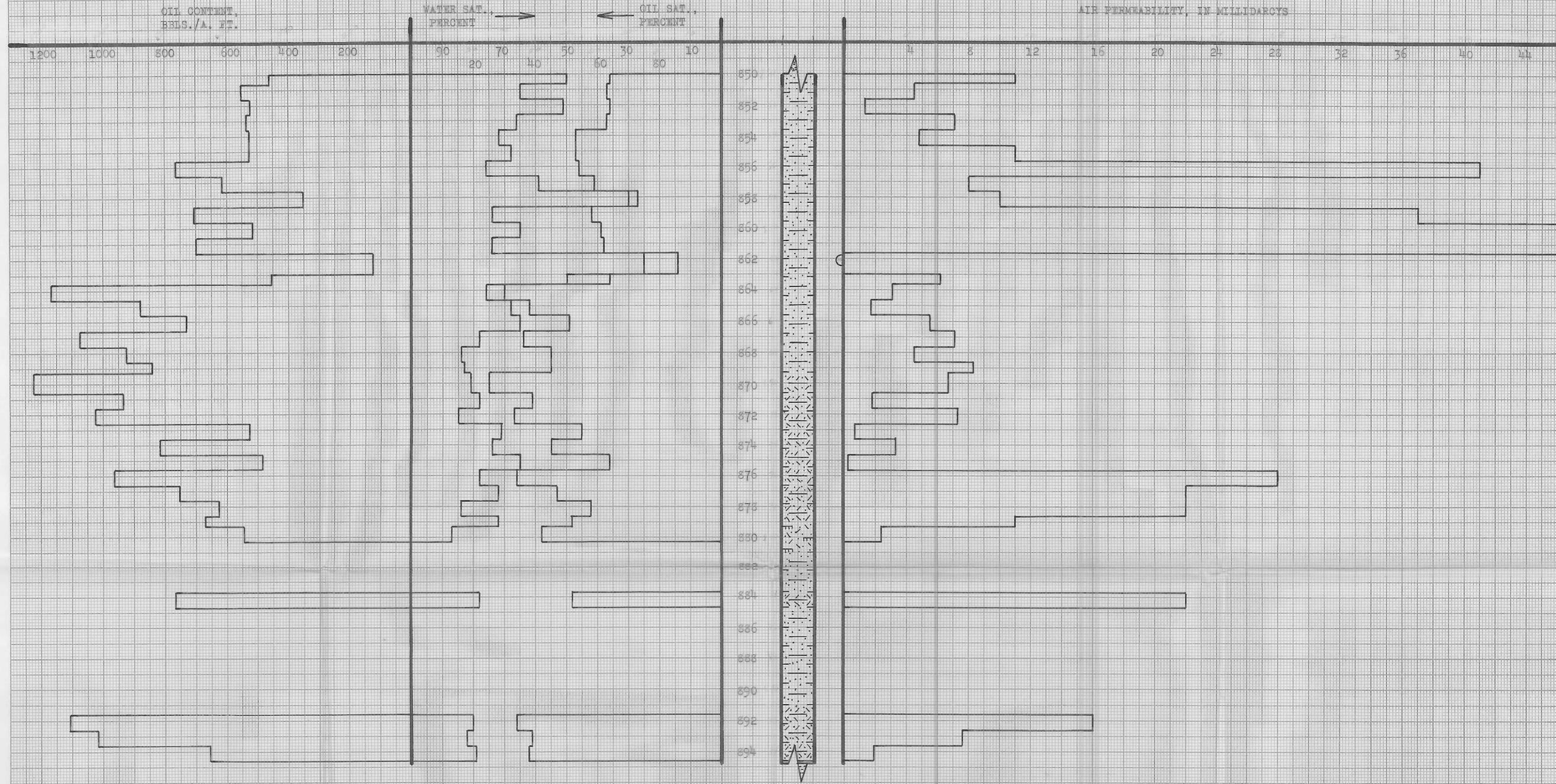
OILFIELD RESEARCH LABORATORIES
CHANUTE, KANSAS
JANUARY, 1966

KEMFEL & ESSER CO
MADE IN U.S.A.

STANDARD
MILLIMETER
CROSS SECTION

KEUFEL & ESSER CO.
MADE IN U.S.A.

STANDARD
MILLIMETER
CROSS SECTION



SHALY SANDSTONE
 CALCAREOUS CARBONACEOUS SANDSTONE
 SHALE
 CARBONACEOUS SHALY SANDSTONE
 LAMINATED SANDSTONE & SHALE
 COAL
 ○ IMPERMEABLE TO AIR

FOUR STATES & LAYTON OIL COMPANY

SOOFT LEASE ALLEN COUNTY, KANSAS WELL NO. R-8

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY, PERCENT	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVG. OIL CONTENT BBL./A.FT.	TOTAL OIL CONTENT BBL./ACRE	AVG. AIR PERMEABILITY, MILLIDARCY
850.0 - 869.3	19.3	18.4	43.9	36.6	640	12,355	15.6
869.3 - 894.6	15.0	18.5	56.8	22.0	819	12,281	10.1
850.0 - 894.6	34.3	18.4	49.2	30.2	720	24,636	13.1

OILFIELD RESEARCH LABORATORIES
CHANUTE, KANSAS
JANUARY, 1966