



OILFIELD RESEARCH LABORATORIES

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

September 12, 1967

Mr. C. C. Garr
509 East 1st Street
Newton, Kansas

Dear Sir:

Enclosed herewith are the results of tests run on the Cable Tool core taken from the Beckley Lease, Well #13, Montgomery County, Kansas, and submitted to our laboratory on September 9, 1967.

This core was sealed in jars and submitted to the laboratory by the client. The well was drilled in virgin territory.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:bjc

2 c. - Newton, Kansas
1 c. - Cherryvale, Kansas

50-31-17E

Cherryvale

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company C. C. Garr Lease Beckley Well No. 13

Location _____

Section 30 Twp. 31S Rge. 17E County Montgomery State Kansas

Name of Sand	Bartlesville
Top of Core	836.0
Bottom of Core	861.0
Top of Sand (Cored)	836.0
Bottom of Sand	860.1
Total Feet of Permeable Sand	24.1

Total Feet of Floodable Sand _____

Distribution of Permeable Sand:
Permeability Range
Millidarcys

	Feet	Cum. Ft.
0 - 5	3.6	3.6
5 - 10	5.2	8.8
10 - 20	7.8	16.6
20 - 25	3.3	19.9
25 & above	4.2	24.1

Average Permeability Millidarcys	15.0
Average Percent Porosity	18.3
Average Percent Oil Saturation	30.8
Average Percent Water Saturation	56.1
Average Oil Content, Bbls./A. Ft.	438.
Total Oil Content, Bbls./Acre	10,567.
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 C. C. Garr Lease Beckley Well No. 13

Depth Interval, Feet	Description
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836.0 - 844.2	- Brown fine grained sandstone.
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844.2 - 848.5	- Grayish brown fine grained sandstone.
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848.5 - 849.7	- Dark brown sandstone.
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849.7 - 851.0	- Dark gray shaly sandstone.
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851.0 - 858.6	- Brown fine grained sandstone.
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858.6 - 860.1	- Dark gray carbonaceous sandstone.
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860.1 - 861.0	- Soft gray shale.
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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company C. C. Garr

Lease Beckley

Well No. 13

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			Ft.	Cum. Ft.		
1	837.0	18.5	38	52	546	28.	1.5	1.5	819	42.00
2	838.0	18.2	32	56	452	20.	1.0	2.5	452	20.00
3	839.0	19.3	35	57	524	4.5	1.0	3.5	524	4.50
4	840.0	17.4	32	44	432	12.	1.0	4.5	432	12.00
5	841.0	18.9	29	59	425	13.	1.0	5.5	425	13.00
6	842.0	17.6	25	60	341	15.	1.0	6.5	341	15.00
7	843.0	16.9	25	61	328	2.0	1.0	7.5	328	2.00
8	844.0	17.8	25	55	345	14.	0.7	8.2	241	9.80
9	845.0	17.7	30	51	412	22.	1.3	9.5	536	28.60
10	846.0	16.6	32	59	412	18.	1.0	10.5	412	18.00
11	847.0	17.3	25	73	335	20.	1.0	11.5	335	20.00
12	848.0	17.1	30	44	398	6.8	1.0	12.5	398	6.80
13	849.0	19.5	40	49	605	5.3	1.2	13.7	726	6.36
14	850.0	18.4	32	59	457	26.	0.8	14.5	366	20.80
15	851.0	18.5	32	63	459	1.0	1.0	15.5	459	1.00
16	852.0	18.6	35	59	505	15.	1.0	16.5	505	15.00
17	853.0	19.3	34	50	509	14.	1.0	17.5	509	14.00
18	854.0	19.1	32	58	474	8.0	1.0	18.5	474	8.00
19	855.0	18.4	29	66	414	36.	1.0	19.5	414	36.00
20	856.0	16.7	22	57	285	9.0	1.0	20.5	285	9.00
21	857.0	18.6	32	57	462	8.6	1.0	21.5	462	8.60
22	858.0	20.3	34	58	536	19.	1.1	22.6	590	20.90
23	859.0	19.5	25	53	378	25.	0.9	23.5	340	22.50
24	860.0	17.4	24	47	324	1.4	0.6	24.1	194	8.40
							Total	--	10,567	

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SUMMARY OF PERMEABILITY & SATURATION TESTS

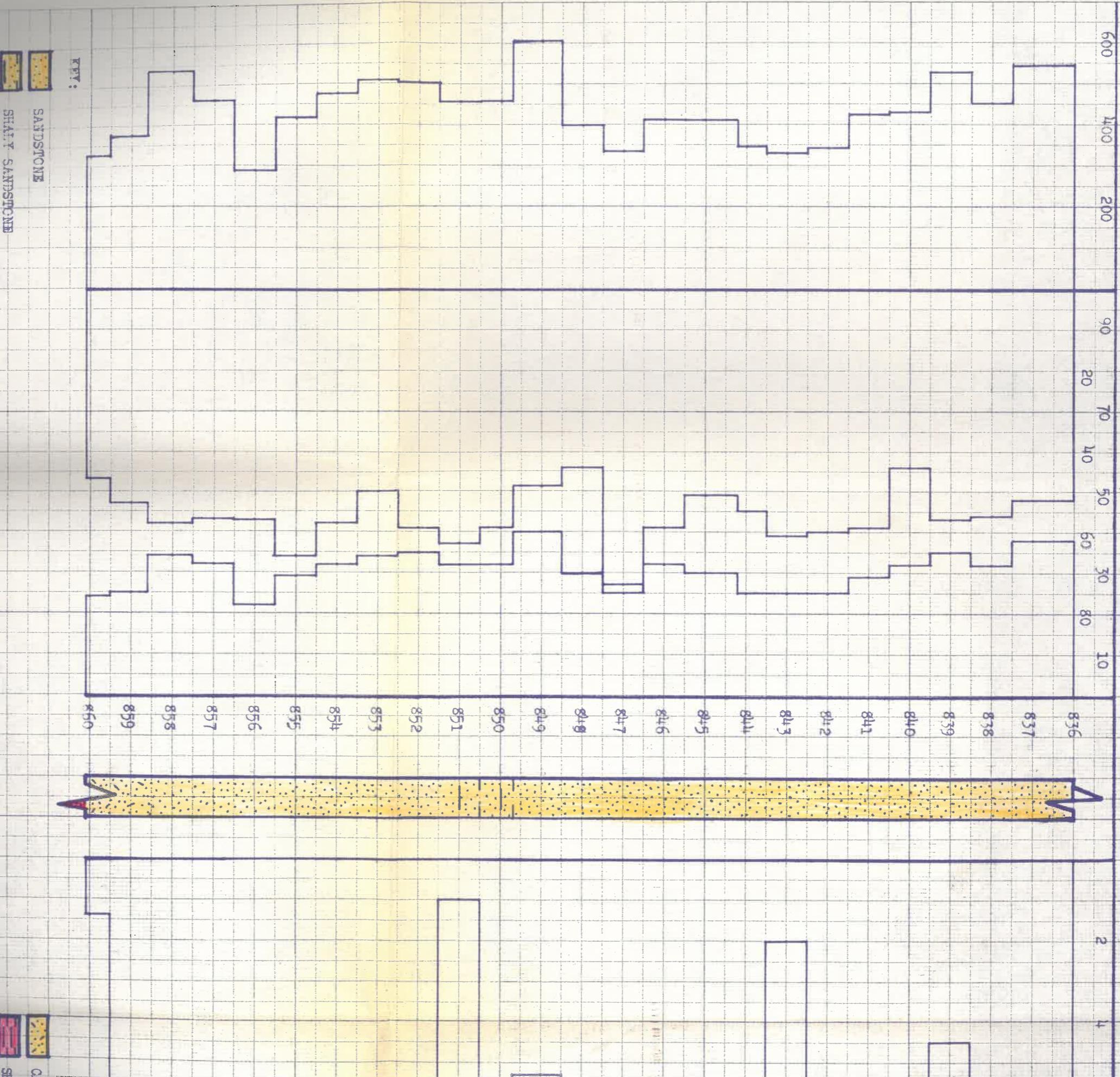
TABLE III

Company	Lease	Beckley	Well No.	13		
Depth Interval, Feet	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Fl. x Md.		
	836.0 - 847.5	11.5	16.1	184.90		
	847.5 - 860.1	12.6	14.1	177.36		
	836.0 - 860.1	24.1	15.0	362.26		
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
836.0 - 847.5	11.5	17.9	30.3	56.6	421	4,845
847.5 - 860.1	12.6	18.6	31.3	55.5	454	5,722
836.0 - 860.1	24.1	18.3	30.8	56.1	438	10,567

OIL CONTENT,
BHLS./A. FT.

WATER SAT.,
PERCENT

OIL SAT.,
PERCENT

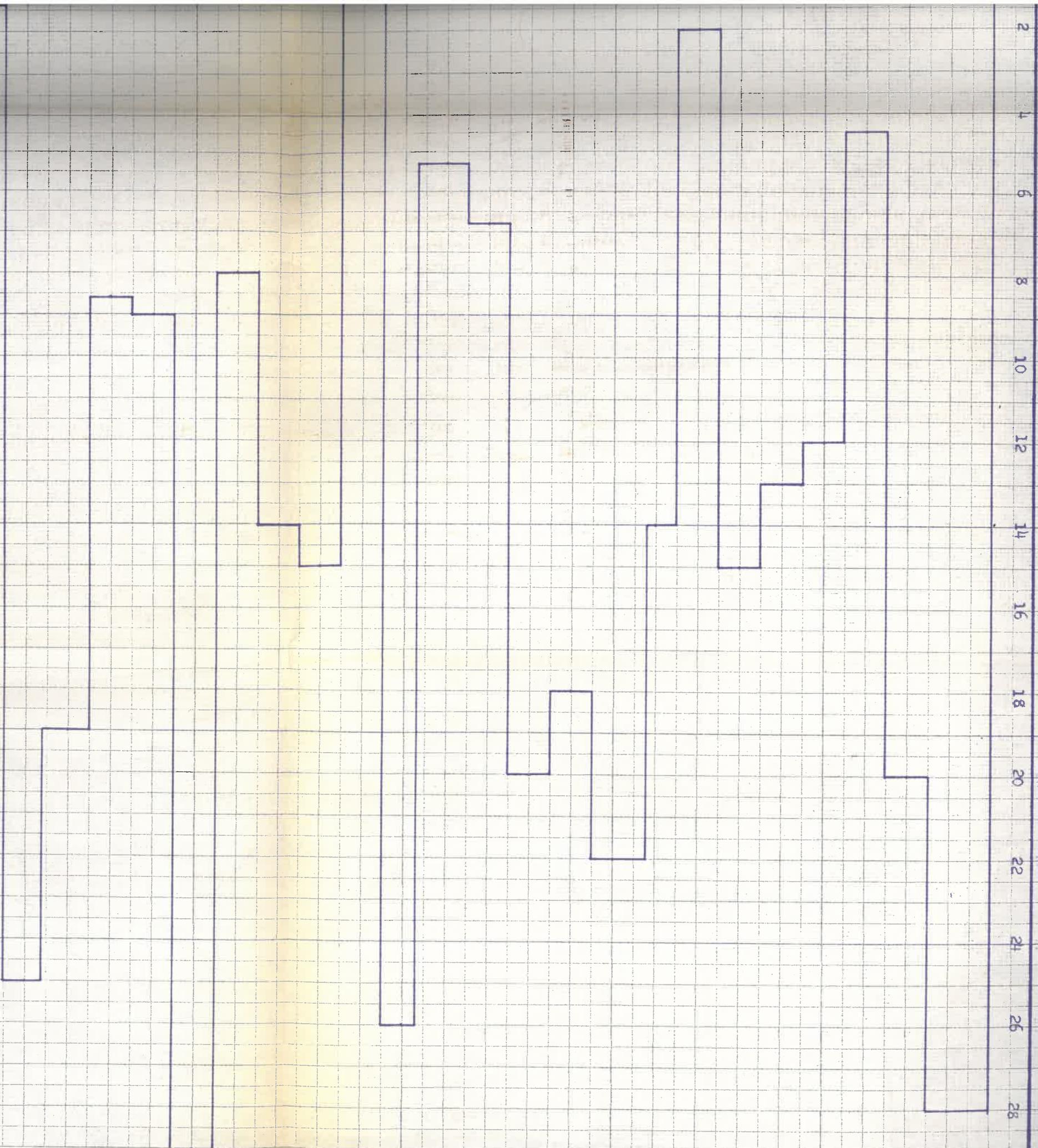


KEY:
 SANDSTONE
 SHALY SANDSTONE

DEPTH INTERVAL, FEET	DEPTH OF CORE ANALYZED	AVERAGE POROSITY, PERCENT	AVG. OIL SATURATION PERCENT	AVG. SATUR PRESS
836.0 - 847.5	11.5	17.9	30.3	96
847.5 - 860.1	12.6	18.6	31.3	95
836.0 - 860.1	24.1	18.3	30.8	96

C. C. G
 BECKETT LEASE
 MONTGOMERY COUNTY, X

AIR PERMEABILITY, MILLIDARCS



 CARBONACEOUS SANDSTONE
 SHALE

C. C. GARR

DEPT LEASE WELL NO. 13
 MONTGOMERY COUNTY, KANSAS

AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVG. OIL CONTENT HBLB./A. FT.	TOTAL OIL CONTENT BBL.S./ACRE	AVG. AIR PERMEABILITY, MILLIDARCS
30.3	56.5	521	4,245	16.1
31.3	55.5	494	5,722	14.1
30.8	56.1	438	10,567	15.0