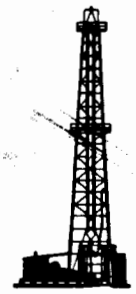

OILFIELD RESEARCH LABORATORIES

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

December 2, 1966

5-24-16E

Al Tipton
P.O. Box 99
Iola, Kansas

Dear Sir:

Enclosed herewith are the results of permeability tests run on the Rotary core taken from the Keske Lease, Well No. W-8, Woodson County, Kansas, and submitted to our laboratory on November 28, 1966.

This core was sampled after being received in the laboratory.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman

Keske W-8

BRP:rf

5 c.

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Al Tipton Lease Keske Well No. W-8

Location

Section 5 Twp. 24S Rge. 16E County Woodson State Kansas

Name of Sand	Squirrel
Top of Core	1032.0
Bottom of Core	1080.0
Top of Sand (Tested)	1032.0
Bottom of Sand (Tested)	1080.0
Total Feet of Permeable Sand	36.5
Total Feet of Floodable Sand	

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 1	8.0	8.0
1 - 5	4.0	12.0
5 - 10	7.4	19.4
10 - 50	11.9	31.3
50 & above	5.2	36.5

Average Permeability Millidarcys	20.9
Average Percent Porosity	
Average Percent Oil Saturation	
Average Percent Water Saturation	
Average Oil Content, Bbls./A. Ft.	
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	

-LOG-

Company Al Tipton Lease Keske Well No. W-8

Depth Interval, Feet	Description
1032.0 - 1048.2	Dark, finely laminated, shaly sandstone with a fracture from 1032.8 to 1033.0.
1048.2 - 1048.6	Dark, fine grained, slightly shaly sandstone.
1048.6 - 1054.9	Dark, finely laminated, shaly sandstone.
1054.9 - 1056.0	Gray, laminated, sandy shale.
1056.0 - 1059.6	Dark, fine grained, shaly sandstone.
1059.6 - 1066.3	Dark, fine grained sandstone.
1066.3 - 1067.1	Dark, conglomeratic sandstone.
1067.1 - 1072.6	Dark, fine grained sandstone with two vertical fractures from 1068.5 to 1069.0 and 1070.2 to 1071.4.
1072.6 - 1080.0	Dark, fine grained, carbonaceous shaly sandstone.

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RESULTS OF PERMEABILITY TESTS

TABLE I

Company Al Tipton Lease Keske Well No. W-8

Sample No.	Depth Feet	Permeability Millidarcys	Feet of Core		Permeability Capacity Ft. x Md.
			Ft.	Cum. Ft.	
1	1032.5	Imp.	1.0	1.0	0.00
2	1033.5	Imp.	1.0	2.0	0.00
3	1034.5	0.56	1.0	3.0	0.56
4	1035.5	0.30	1.0	4.0	0.30
5	1036.5	Imp.	1.0	5.0	0.00
6	1037.5	0.38	1.0	6.0	0.38
7	1038.5	Imp.	1.0	7.0	0.00
8	1039.5	0.86	1.0	8.0	0.86
9	1040.5	Imp.	1.0	9.0	0.00
10	1041.5	1.4	1.0	10.0	1.40
11	1042.5	0.62	1.0	11.0	0.62
12	1043.5	Imp.	1.0	12.0	0.00
13	1044.5	Imp.	1.0	13.0	0.00
14	1045.5	1.1	1.0	14.0	1.10
15	1046.5	0.33	1.0	15.0	0.33
16	1047.5	5.4	1.2	16.2	6.48
17	1048.5	42.	0.4	16.6	16.80
18	1049.5	Imp.	1.4	18.0	0.00
19	1050.5	8.7	1.0	19.0	8.70
20	1051.5	2.0	1.0	20.0	2.00
21	1052.5	0.82	1.0	21.0	0.82
22	1053.5	7.3	1.0	22.0	7.30
23	1054.5	11.	0.9	22.9	9.90
24	1055.5	Imp.	1.1	24.0	0.00
25	1056.5	30.	1.0	25.0	30.00
26	1057.5	62.	1.0	26.0	62.00
27	1058.5	Imp.	1.0	27.0	0.00
28	1059.5	12.	0.6	27.6	7.20
29	1060.5	21.	1.4	29.0	29.40
30	1061.5	92.	1.0	30.0	92.00
31	1062.5	18.	1.0	31.0	18.00
32	1063.5	23.	1.0	32.0	23.00
33	1064.5	6.7	1.0	33.0	6.70
34	1065.5	102.	1.3	34.3	132.60
35	1066.5	9.6	0.8	35.1	7.68
36	1067.5	112.	0.9	36.0	100.80
37	1068.5	27.	1.0	37.0	27.00
38	1069.5	25.	1.0	38.0	25.00
39	1070.5	17.	1.0	39.0	17.00
40	1071.5	61.	1.0	40.0	61.00

Oilfield Research Laboratories

RESULTS OF PERMEABILITY TESTS

TABLE I

Company Al Tipton Lease Keske Well No. W-8

Sample No.	Depth Feet	Permeability Millidarcys	Feet of Core		Permeability Capacity Ft. x Md.
			Ft.	Cum. Ft.	
41	1072.5	33.	0.6	40.6	19.80
42	1073.5	8.8	1.4	42.0	12.32
43	1074.5	Imp.	1.0	43.0	0.00
44	1075.5	6.0	1.0	44.0	6.00
45	1076.5	0.42	1.0	45.0	0.42
46	1077.5	12.	1.0	46.0	12.00
47	1078.5	3.1	1.0	47.0	3.10
48	1079.5	13.	1.0	48.0	13.00

Oilfield Research Laboratories

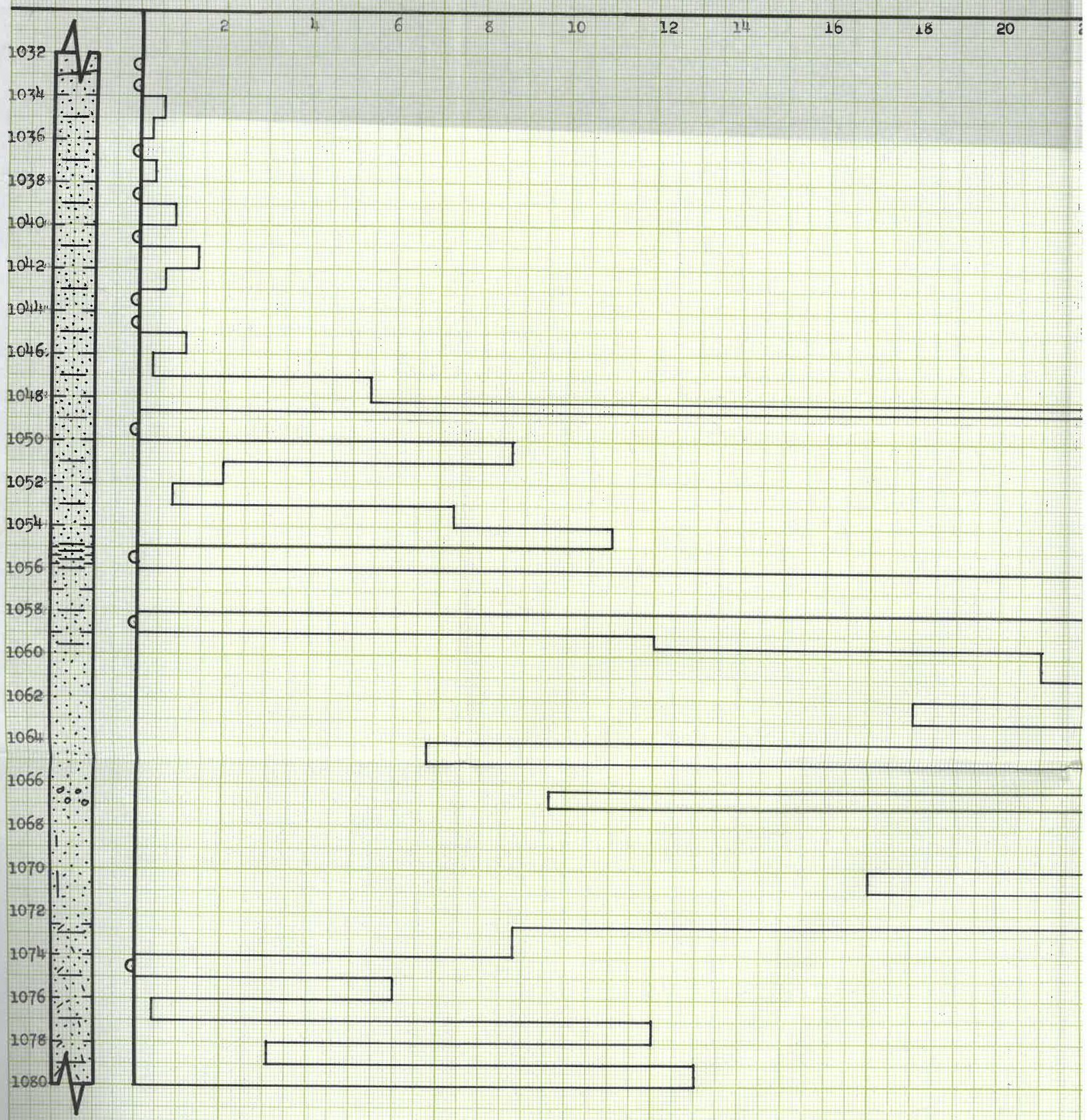
Summary of Permeability Tests

TABLE II

Company Al Tipton Lease Keske Well No. W-8

Depth Interval, Feet	Feet of Core Analyzed	Average Air Permeability, Millidarcys	Permeability Capacity Ft. x Md.
1032.0 - 1056.0	14.5	4.0	57.55
1056.0 - 1072.6	15.6	42.3	659.18
1072.6 - 1080.0	6.4	7.3	46.84
1032.0 - 1080.0	36.5	20.9	763.57

Air Permeability, In Millidarcys



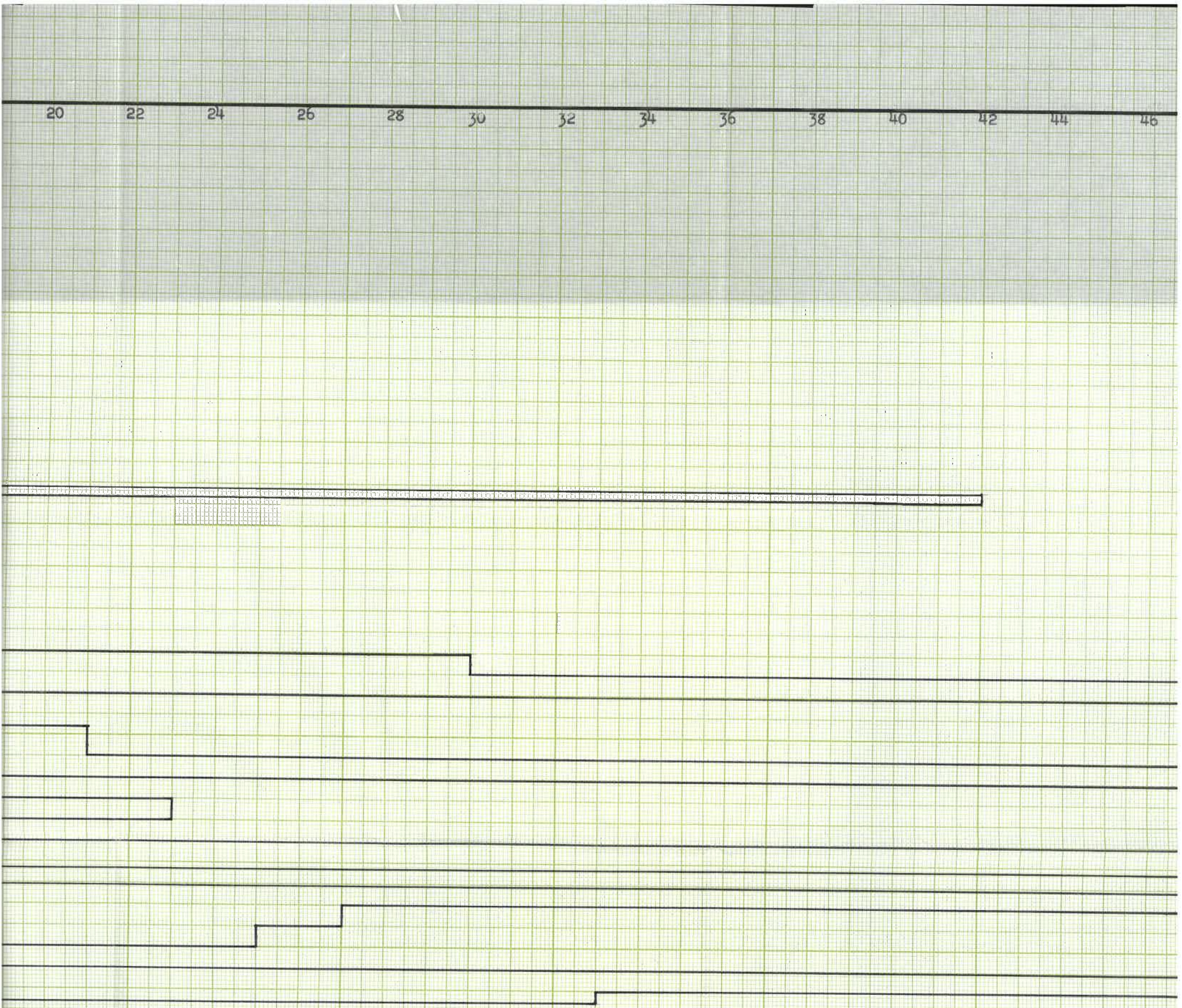
KEY:

- Sandstone
- Shaly Sandstone
- Carbonaceous shaly sandstone
- Conglomeratic Sandstone

AL T

Keske Lease
W oodson

Depth Interval, Feet	Feet of Core Analyzed
1032.0 - 1056.0	14.5
1056.0 - 1072.6	15.6
1072.6 - 1080.0	6.4
1032.0 - 1080.0	36.5



Sandy Shale

Shaly Sandstone Containing An Anguler Fracture

Formation Containing A Vertical Fracture

O Impermeable To Air

AL TIPTON

Keske Lease Well No. W-8

Woodson County, Kansas

eet of Core Analyzed	Average Air Permeability, Millidarcys	Permeability Capacity Ft. x Md.
14.5	4.0	57.55
15.6	42.3	659.18
6.4	7.3	46.84
36.5	20.9	763.57

Oilfield Research Laboratories
Chanute, Kansas
December, 1966