



# OILFIELD RESEARCH LABORATORIES

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

December 6, 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-9, Woodson County, Kansas, and submitted to our laboratory on December 1, 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*  
Benjamin R. Pearman

BRP:rf

5 c. - Iola, Kansas  
1 c. - Bob Barnett

Keske W-9

# Oilfield Research Laboratories

## GENERAL INFORMATION & SUMMARY

Company Al Tipton Lease Keske Well No. W-9

Location \_\_\_\_\_

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

Name of Sand	Squirrel
Top of Core	1030.0
Bottom of Core	1078.0
Top of Sand (Tested)	1030.0
Bottom of Sand (Tested)	1078.0
Total Feet of Permeable Sand	47.0
Total Feet of Floodable Sand	

**Distribution of Permeable Sand:**  
Permeability Range  
Millidarcys

	Feet	Cum. Ft.
0 - 5	15.5	15.5
5 - 10	11.8	27.3
10 - 20	6.1	33.4
20 - 50	6.1	39.5
50 & above	7.5	47.0

Average Permeability Millidarcys	19.6
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-9

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
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1030.0 - 1041.8	- Light brown, laminated, shaly sandstone.
1041.8 - 1046.1	- Brown, slightly laminated, slightly shaly sandstone.
1046.1 - 1061.8	- Light brown, laminated, shaly sandstone.
1061.8 - 1068.2	- Brown sandstone.
1068.2 - 1070.3	- Brown, slightly laminated, slightly shaly sandstone.
1070.3 - 1076.8	- Gray and brown, laminated, shaly, carbonaceous sandstone.
1076.8 - 1078.0	- Dark carbonaceous sandstone.

**Oilfield Research Laboratories**  
**RESULTS OF PERMEABILITY TESTS**  
**TABLE I**

Company Al Tipton Lease Keske Well No. W-9

Sample No.	Depth Feet	Permeability Millidarcys	Feet of Core		Permeability Capacity Ft. x Md.
			Ft.	Cum. Ft.	
1	1030.5	Imp.	1.0	1.0	0.00
2	1031.5	3.0	1.0	2.0	3.00
3	1032.5	2.3	1.0	3.0	2.30
4	1033.5	27.	1.0	4.0	27.00
5	1034.5	4.8	1.0	5.0	4.80
6	1035.5	3.6	1.0	6.0	3.60
7	1036.5	0.71	1.0	7.0	0.71
8	1037.5	6.0	1.0	8.0	6.00
9	1038.5	5.1	1.0	9.0	5.10
10	1039.5	6.3	1.0	10.0	6.30
11	1040.5	5.0	1.0	11.0	5.00
12	1041.5	9.9	0.8	11.8	7.92
13	1042.5	53.	1.2	13.0	63.60
14	1043.5	76.	1.0	14.0	76.00
15	1044.5	7.1	1.0	15.0	7.10
16	1045.5	35.	1.1	16.1	38.50
17	1046.5	62.	0.9	17.0	55.80
18	1047.5	6.2	1.0	18.0	6.20
19	1048.5	4.0	1.0	19.0	4.00
20	1049.5	13.	1.0	20.0	13.00
21	1050.5	5.2	1.0	21.0	5.30
22	1051.5	5.2	1.0	22.0	5.20
23	1052.5	5.3	1.0	23.0	5.30
24	1053.5	4.8	1.0	24.0	4.80
25	1054.5	19.	1.0	25.0	19.00
26	1055.5	10.	1.0	26.0	10.00
27	1056.5	1.8	1.0	27.0	1.80
28	1057.5	7.1	1.0	28.0	7.10
29	1058.5	12.	1.0	29.0	12.00
30	1059.5	2.9	1.0	30.0	2.90
31	1060.5	6.0	1.0	31.0	6.00
32	1061.5	38.	0.8	31.8	30.40
33	1062.5	81.	1.2	33.0	97.20
34	1063.5	47.	1.0	34.0	47.00
35	1064.5	68.	1.0	35.0	68.00
36	1065.5	81.	1.0	36.0	81.00
37	1066.5	25.	1.0	37.0	25.00
38	1067.5	52.	1.2	38.2	62.40
39	1068.5	13.	0.8	39.0	10.40
40	1069.5	15.	1.3	40.3	19.50

**Oilfield Research Laboratories**  
**RESULTS OF PERMEABILITY TESTS**

**TABLE I**

Company Al Tipton Lease Keske Well No. W-9

Sample No.	Depth Feet	Permeability Millidarcys	Feet of Core		Permeability Capacity Ft. x Md.
			Ft.	Cum. Ft.	
41	1070.5	0.48	0.7	41.0	0.34
42	1071.5	0.86	1.0	42.0	0.86
43	1072.5	1.6	1.0	43.0	1.60
44	1073.5	0.34	1.0	44.0	0.34
45	1074.5	19.	1.0	45.0	19.00
46	1075.5	1.4	1.0	46.0	1.40
47	1076.5	1.2	0.8	46.8	0.96
48	1077.5	35.	1.2	48.0	42.00

Oilfield Research Laboratories  
 Summary of Permeability Tests

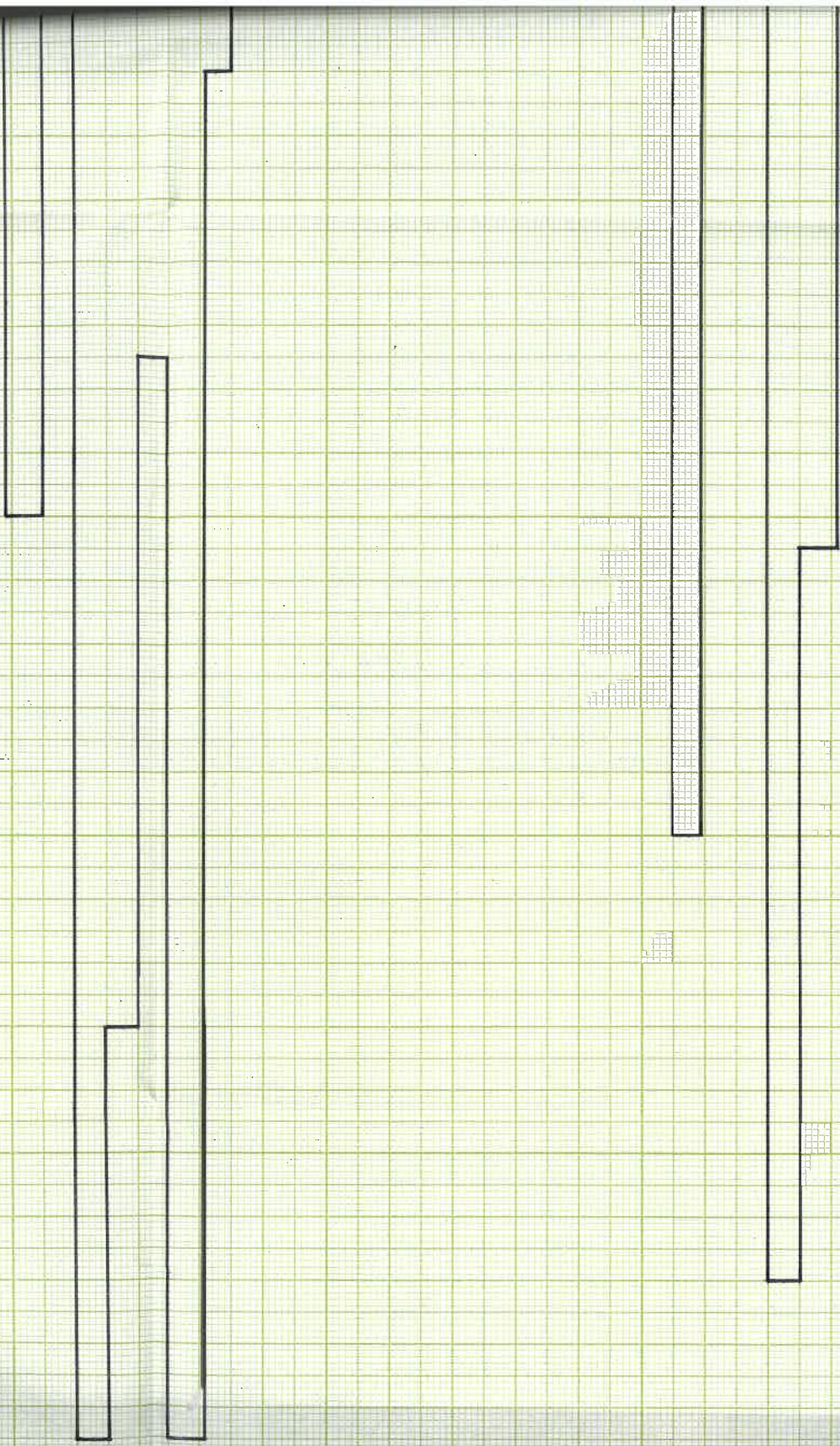
TABLE II

Company	Al Tipton	Lease	Keske	Well No.	W-9
	Depth Interval, Feet	Feet of Core Analyzed	Average Air Permeability, Millidarcys	Permeability Capacity Ft. x Md.	
	1030.0 - 1054.0	23.0	15.5	356.53	
	1054.0 - 1078.0	24.0	23.6	566.20	
	1030.0 - 1078.0	47.0	19.6	922.73	



AIR PERMEABILITY, IN MILLIDARCS

36 40 44 48 52 56 60 64 68 72 76 80 84 88



O IMPERMEABLE TO AIR

# LANDSTONE WELL TIPTON

LEASE WELL NO. W-9  
WOODSON COUNTY, KANSAS

AVERAGE AIR PERMEABILITY, MILLIDARCS	PERMEABILITY, CAPACITY FT. x MD.
15.5	356.53
23.6	566.20
19.6	922.73