



# OILFIELD RESEARCH LABORATORIES

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

December 14, 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-7, Woodson County, Kansas, and submitted to our laboratory on December 10, 1966.

This core was sampled after being received in the laboratory.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

*John L. Pate*  
John L. Pate

JLP:rf

5 c. - Iola, Kansas  
1 c. - Brazos Oil & Gas Company

Keske W-7

# Oilfield Research Laboratories

## GENERAL INFORMATION & SUMMARY

Company Al Tipton Lease Keske Well No. W-7

Location SW $\frac{1}{4}$

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

Name of Sand	Squirrel
Top of Core	1036.0
Bottom of Core	1081.0
Top of Sand	1036.0
Bottom of Sand	1081.0
Total Feet of Permeable Sand	35.0
Total Feet of Floodable Sand	

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 1	2.0	2.0
1 - 10	20.0	22.0
10 - 50	11.0	33.0
50 & above	2.0	35.0

Average Permeability Millidarcys	13.1
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-7

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

1036.0 - 1046.0 - Gray, laminated, sandy shale.

1046.0 - 1055.0 - Gray and brown, laminated, shaly sandstone.

1055.0 - 1057.0 - Gray, laminated, sandy shale.

1057.0 - 1060.0 - Dark brown, laminated, slightly shaly sandstone.

1060.0 - 1067.0 - Brown and gray, laminated, shaly sandstone.

1067.0 - 1069.0 - Dark brown, laminated, slightly shaly sandstone.

1069.0 - 1081.0 - Dark brown, laminated, slightly carbonaceous,  
shaly sandstone.

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

**TABLE I**

Company Al Tipton Lease Keske Well No. W-7

Sample No.	Depth Feet	Permeability Millidarcys	Feet of Core		Permeability Capacity Ft. x Md.
			Ft.	Cum. Ft.	
1	1036.5	Imp.	1.0	1.0	0.00
2	1037.5	0.46	1.0	2.0	0.46
3	1038.5	0.74	1.0	3.0	0.74
4	1039.5	Imp.	1.0	4.0	0.00
5	1040.5	Imp.	1.0	5.0	0.00
6	1041.5	Imp.	1.0	6.0	0.00
7	1042.5	Imp.	1.0	7.0	0.00
8	1043.5	Imp.	1.0	8.0	0.00
9	1044.5	2.7	1.0	9.0	2.70
10	1045.5	Imp.	1.0	10.0	0.00
11	1046.5	8.5	1.0	11.0	8.50
12	1047.5	1.3	1.0	12.0	1.30
13	1048.5	6.5	1.0	13.0	6.50
14	1049.5	8.1	1.0	14.0	8.10
15	1050.5	3.1	1.0	15.0	3.10
16	1051.5	2.6	1.0	16.0	2.60
17	1052.5	16.	1.0	17.0	16.00
18	1053.5	3.0	1.0	18.0	3.00
19	1054.5	2.0	1.0	19.0	2.00
20	1055.5	Imp.	1.0	20.0	0.00
21	1056.5	Imp.	1.0	21.0	0.00
22	1057.5	33.	1.0	22.0	33.00
23	1058.5	24.	1.0	23.0	24.00
24	1059.5	98.	1.0	24.0	98.00
25	1060.5	5.0	1.0	25.0	5.00
26	1061.5	27.	1.0	26.0	27.00
27	1062.5	Imp.	1.0	27.0	0.00
28	1063.5	9.9	1.0	28.0	9.90
29	1064.5	4.4	1.0	29.0	4.40
30	1065.5	5.6	1.0	30.0	5.60
31	1066.5	4.3	1.0	31.0	4.30
32	1067.5	19.	1.0	32.0	19.00
33	1068.5	19.	1.0	33.0	19.00
34	1069.5	19.	1.0	34.0	19.00
35	1070.5	21.	1.0	35.0	21.00
36	1071.5	3.0	1.0	36.0	3.00

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

Company Al Tipton Lease Keske Well No. W-7

Sample No.	Depth Feet	Permeability Millidarcys	Feet of Core		Permeability Capacity Ft. x Md.
			Ft.	Cum. Ft.	
37	1072.5	15.	1.0	37.0	15.00
38	1073.5	12.	1.0	38.0	12.00
39	1074.5	50.	1.0	39.0	50.00
40	1075.5	10.	1.0	40.0	10.00
41	1076.5	8.1	1.0	41.0	8.10
42	1077.5	8.7	1.0	42.0	8.70
43	1078.5	1.6	1.0	43.0	1.60
44	1079.5	3.0	1.0	44.0	3.00
45	1080.5	2.9	1.0	45.0	2.90

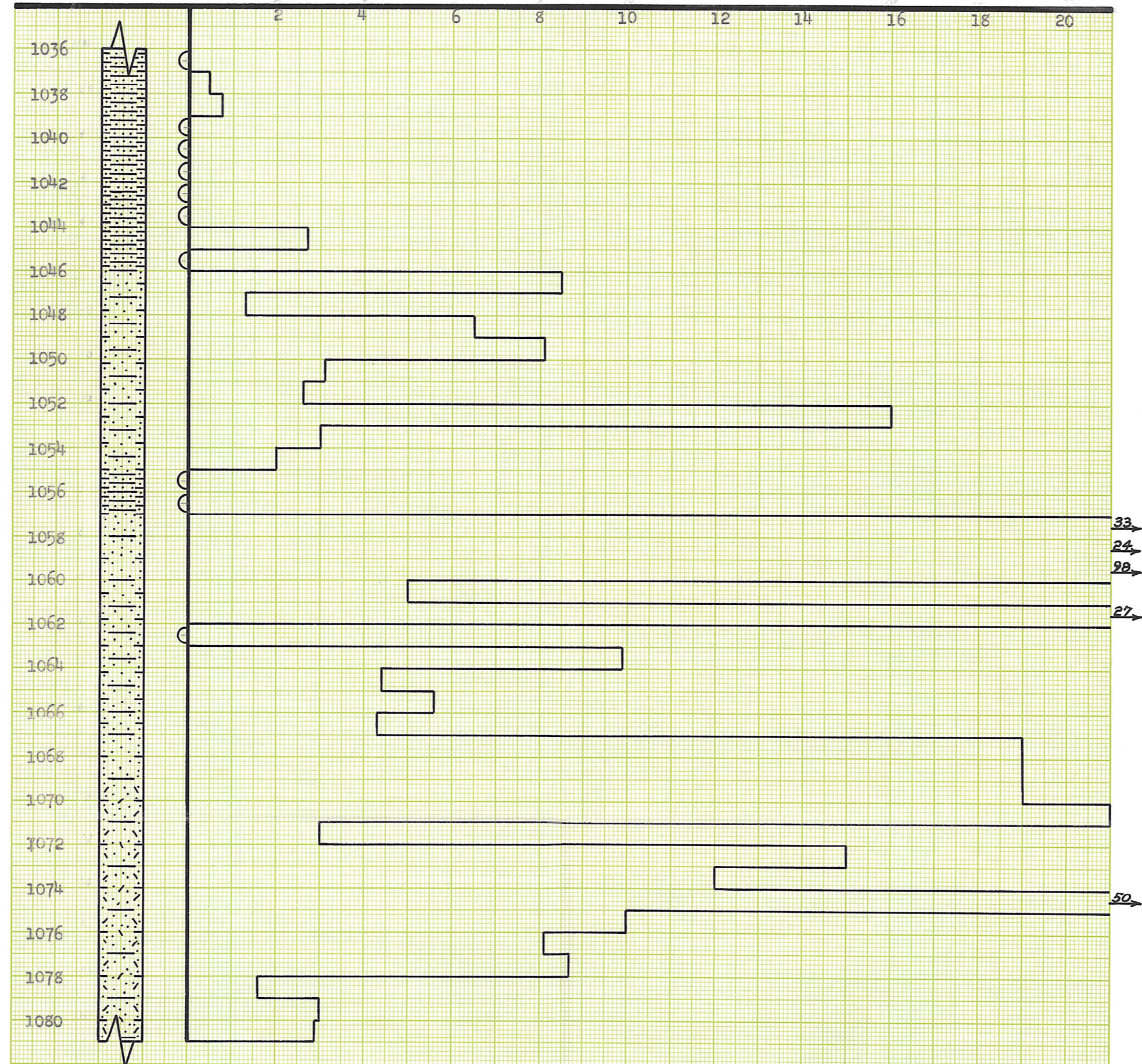
## OILFIELD RESEARCH LABORATORIES

## SUMMARY OF PERMEABILITY TESTS

TABLE II

Company	Al Tipton	Lease	Keske	Well No.	W-7
<u>Depth Interval, Feet</u>	<u>Feet of Core Analyzed</u>	<u>Average Air Permeability, Millidarcys</u>	<u>Permeability Capacity Ft. x Md.</u>		
1036.0 - 1046.0	3.0	1.3	3.90		
1046.0 - 1057.0	9.0	5.7	51.10		
1057.0 - 1069.0	11.0	22.7	249.20		
1069.0 - 1081.0	12.0	12.9	154.30		
1036.0 - 1081.0	35.0	13.1	458.50		

AIR PERMEABILITY, IN MILLIDARCYS



SHALY SANDSTONE
  CARBONACEOUS SHALY SANDSTONE  
 SANDY SHALE
  IMPERMEABLE TO AIR

**AL TIPTON**  
KESKE LEASE WELL NO. W-7  
WOODSON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE AIR PERMEABILITY, MILLIDARCYS	PERMEABILITY CAPACITY FT. x MD.
1036.0 - 1046.0	3.0	1.3	3.90
1046.0 - 1057.0	9.0	5.7	51.10
1057.0 - 1069.0	11.0	22.7	249.20
1069.0 - 1081.0	12.0	12.9	154.30
1036.0 - 1081.0	35.0	13.1	458.50

GILFIELD RESEARCH LABORATORIES  
CHANDLER, KANSAS  
DECEMBER, 1966