



OILFIELD RESEARCH LABORATORIES

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

September 14, 1966

5-24-16E

Al Tipton
P.O. Box 99
Iola, Kansas

Dear Sir:

Enclosed herewith are the results of tests run on the Rotary core taken from the Keske Lease, Well No. W-3, Woodson County, Kansas, and submitted to our laboratory on September 12, 1966.

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.

Keske W-3

-LOG-Company Al Tipton Lease Keske Well No. W-3

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
1035.0 - 1050.0	- Brown, laminated, shaly sandstone.
1050.0 - 1051.0	- Laminated sandstone and shale.
1051.0 - 1055.0	- Brown, laminated, shaly sandstone.
1055.0 - 1056.0	- Laminated sandy shale.
1056.0 - 1057.0	- Brown, laminated, shaly sandstone.
1057.0 - 1058.0	- Sandy shale.
1058.0 - 1059.0	- Dark brown, shaly sandstone.
1059.0 - 1060.0	- Sandy shale.
1060.0 - 1066.0	- Dark brown, laminated, slightly shaly sandstone.
1066.0 - 1080.0	- Brown to dark, carbonaceous sandstone.

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Al Tipton Lease Keske Well No. W-3

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	1035.5	16.5	39	38	77	499	6.9	1.0	1.0	499	6.90
2	1036.5	19.2	56	27	83	833	15.	1.0	2.0	833	15.00
3	1037.5	15.4	42	51	93	501	2.4	1.0	3.0	501	2.40
4	1038.5	15.4	23	53	76	274	4.9	1.0	4.0	274	4.90
5	1039.5	17.9	42	39	81	581	4.5	1.0	5.0	581	4.50
6	1040.5	15.3	32	55	87	379	3.0	1.0	6.0	379	3.00
7	1041.5	16.7	48	40	88	621	2.4	1.0	7.0	621	2.40
8	1042.5	19.5	43	33	76	649	7.9	1.0	8.0	649	7.90
9	1043.5	18.9	43	34	77	629	20.	1.0	9.0	629	20.00
10	1044.5	16.0	36	52	88	446	14.	1.0	10.0	446	14.00
11	1045.5	19.7	55	30	85	840	3.0	1.0	11.0	840	3.00
12	1046.5	19.3	44	36	80	658	0.89	1.0	12.0	658	0.89
13	1047.5	20.3	47	26	73	740	13.	1.0	13.0	740	13.00
14	1048.5	18.5	57	21	78	816	39.	1.0	14.0	816	39.00
15	1049.5	19.1	49	37	86	725	0.26	1.0	15.0	725	0.26
16	1050.5	14.4	21	66	87	234	Imp.	1.0	16.0	234	0.00
17	1051.5	19.3	57	31	88	854	14.	1.0	17.0	854	14.00
18	1052.5	20.6	46	29	75	734	31.	1.0	18.0	734	31.00
19	1053.5	18.7	43	40	83	624	17.	1.0	19.0	624	17.00
20	1054.5	19.0	34	39	73	501	1.7	1.0	20.0	501	1.70
21	1055.5	14.4	17	66	83	190	29.	1.0	21.0	190	29.00
22	1056.5	20.2	49	29	78	768	16.	1.0	22.0	768	16.00
23	1057.5	15.2	24	72	96	283	Imp.	1.0	23.0	283	0.00
24	1058.5	21.1	51	31	82	834	38.	1.0	24.0	834	38.00

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Al Tipton Lease Keske Well No. W-3

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	1059.5	20.2	41	32	73	643	Imp.	1.0	25.0	643	0.00
26	1060.5	18.2	31	66	97	436	20.	1.0	26.0	436	20.00
27	1061.5	20.1	20	46	66	312	0.54	1.0	27.0	312	0.54
28	1062.5	18.4	39	38	77	556	3.2	1.0	28.0	556	3.20
29	1063.5	19.6	42	42	84	639	4.2	1.0	29.0	639	4.20
30	1064.5	17.1	29	53	82	384	35.	1.0	30.0	384	35.00
31	1065.5	19.0	39	37	76	574	15.	1.0	31.0	574	15.00
32	1066.5	20.7	62	28	90	995	30.	1.0	32.0	995	30.00
33	1067.5	18.7	55	36	91	797	6.5	1.0	33.0	797	6.50
34	1068.5	21.6	67	16	83	1,122	61.	1.0	34.0	1,122	61.00
35	1069.5	21.0	44	23	67	716	115.	1.0	35.0	716	115.00
36	1070.5	23.1	60	18	78	1,074	8.8	1.0	36.0	1,074	8.80
37	1071.5	21.1	49	20	69	801	15.	1.0	37.0	801	15.00
38	1072.5	21.4	57	19	76	946	4.2	1.0	38.0	946	4.20
39	1073.5	19.3	55	21	76	822	35.	1.0	39.0	822	35.00
40	1074.5	19.5	52	30	82	786	5.3	1.0	40.0	786	5.30
41	1075.5	21.4	50	25	75	830	15.	1.0	41.0	830	15.00
42	1076.5	21.4	56	20	76	929	9.1	1.0	42.0	929	9.10
43	1077.5	22.4	52	25	77	903	7.4	1.0	43.0	903	7.40
44	1078.5	21.8	54	24	78	913	11.	1.0	44.0	913	11.00
45	1079.5	20.6	52	22	74	830	11.	1.0	45.0	830	11.00
Total-----								30	221	30,221	

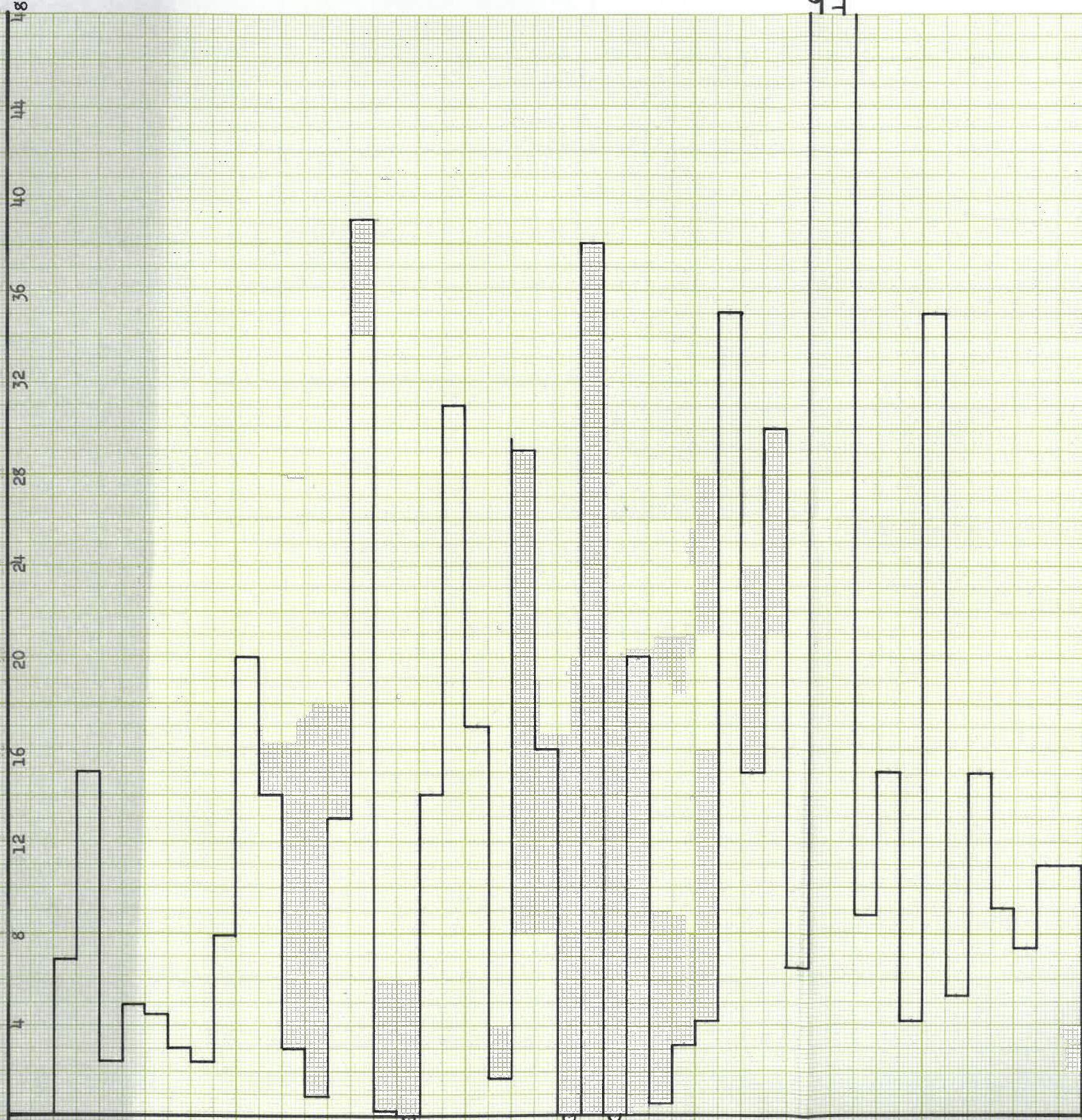
Oilfield Research Laboratories

SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Keske	Well No.			
Al Tipton			W-3			
	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
	1035.0 - 1050.0	15.0	9.1	137.15		
	1050.0 - 1066.0	13.0	17.3	224.64		
	1066.0 - 1080.0	14.0	23.9	334.30		
	1035.0 - 1080.0	42.0	16.6	696.09		
	Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
	1035.0 - 1050.0	15.0	17.8	43.7	612	9,191
	1050.0 - 1066.0	16.0	18.5	36.4	535	8,566
	1066.0 - 1080.0	14.0	21.0	54.6	890	12,464
	1035.0 - 1080.0	45.0	19.1	44.6	672	30,221

AIR PERMEABILITY, IN MILLIDARCY'S



STANDARD © CROSS SECTION
MILLIMETER

61
115

○ IMPERMEABLE TO AIR

TON

ELL NO. W-3

KANSAS

AVG. WATER SATURATION PERCENT	AVG. OIL CONTENT BBLs./A. FT.	TOTAL OIL CONTENT BBLs./ACRE	AVG. AIR PERMEABILITY, MILLIDARCY'S
38.2	612	9,191	9.1
44.9	535	8,566	17.3
23.4	890	12,464	23.9
35.9	672	30,221	16.6

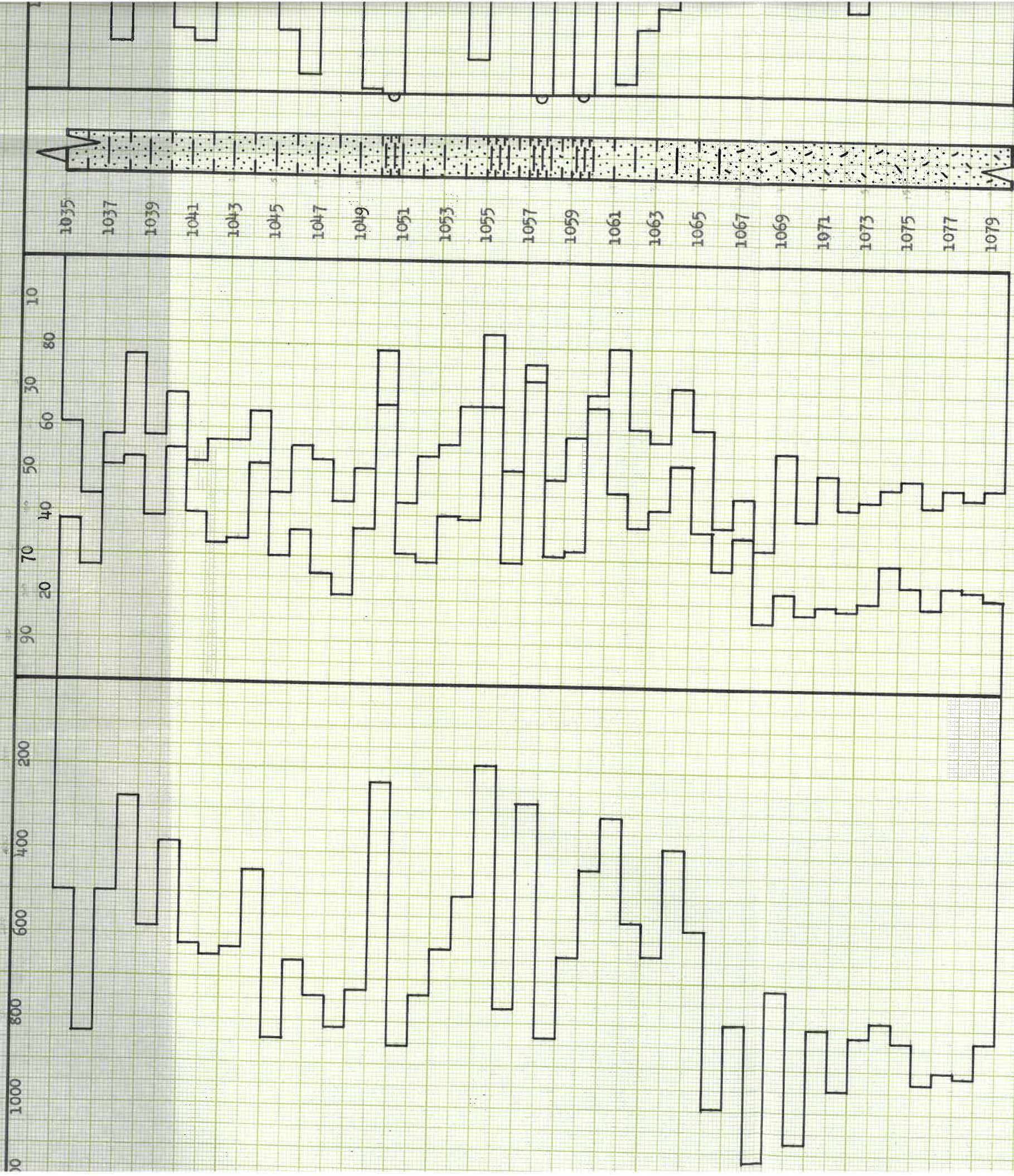
OILFIELD RESEARCH LABORATORIES
CHANUTE, KANSAS
SEPTEMBER, 1966

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

OIL CONTENT,
BBLs./A. FT.

WATER SAT.,
PERCENT

OIL SAT.,
PERCENT



1035
1037
1039
1041
1043
1045
1047
1049
1051
1053
1055
1057
1059
1061
1063
1065
1067
1069
1071
1073
1075
1077
1079

CARBONACEOUS SANDSTONE
SHALY SANDSTONE

LAMINATED SANDSTONE & SHALE
SANDY SHALE

AL TIPTON

KESKE LEASE
WELL NO. W-3
WOODSON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY, PERCENT	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT
1035.0 - 1050.0	15.0	17.8	43.7	38.2
1050.0 - 1066.0	16.0	18.5	36.4	44.9
1066.0 - 1080.0	14.0	21.0	54.6	23.4
1035.0 - 1080.0	45.0	19.1	44.6	35.9