



OILFIELD RESEARCH LABORATORIES

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

October 9, 1968

8-25-106

N. & B. Enterprises
Box 229
Chanute, Kansas 66720

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the Toedman Lease, Well No. 2, Woodson County, Kansas, and submitted to our laboratory on October 4, 1968.

This core was taken from a virgin territory and was submitted to our laboratory by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:dp

5 c. - Chanute, Kansas

Toedman 2

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company N & B Enterprises Lease Toedman Well No. 2

Location E/2 SE/4

Section 8 Twp. 25S Rge. 16E County Woodson State Kansas

Name of Sand	Squirrel
Top of Core	940.0
Bottom of Core	951.1
Top of Sand (Cored)	940.0
Bottom of ^{Pay} Sand	949.5
Total Feet of Permeable Sand	9.5
Total Feet of Floodable Sand	

Distribution of Permeable Sand:
Permeability Range
Millidarcys

	Feet	Cum. Ft.
0 - 20	2.4	2.4
20 - 30	3.3	5.7
30 & above	3.8	9.5

Average Permeability Millidarcys	25.6
Average Percent Porosity	20.3
Average Percent Oil Saturation	58.6
Average Percent Water Saturation	12.8
Average Oil Content, Bbls./A. Ft.	918.
Total Oil Content, Bbls./Acre	8,719.
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 N & B Enterprises Lease Toedman Well No. 2

<u>Depth Interval, Feet</u>	<u>Description</u>
940.0 - 943.2	Gray & dark brown laminated shaly sandstone.
943.2 - 949.5	Dark brown slightly laminated shaly sandstone.
949.5 - 950.0	Gray & Dark brown laminated shaly sandstone.
950.0 - 951.1	Gray sandy shale.

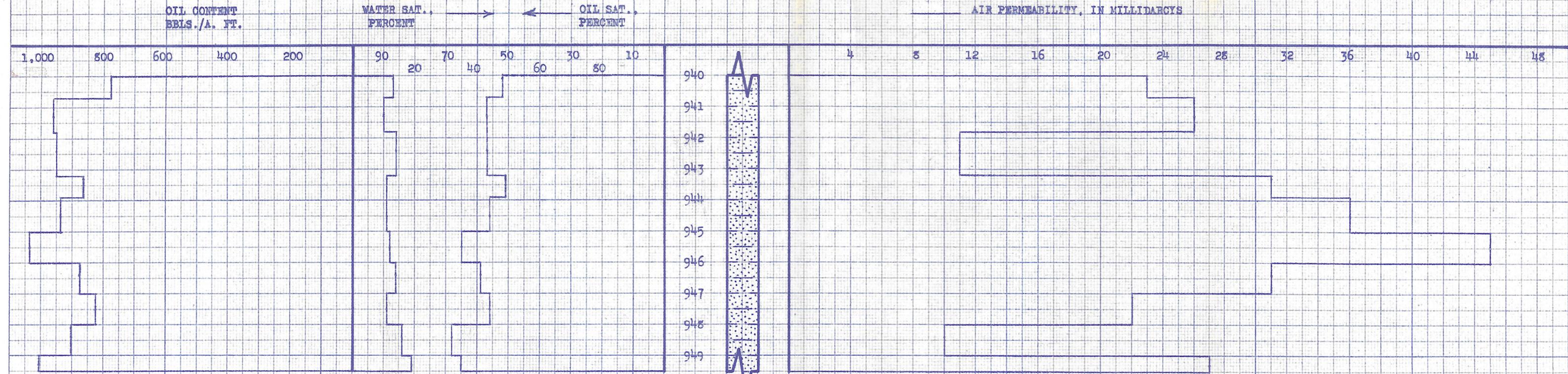
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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company N & B Enterprises Lease Toedman Well No. 2

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.		
1	940.1	19.3	52	13	65	779	23	0.7	0.7	545	16.10
2	941.3	21.7	57	10	67	960	26	1.1	1.8	1056	28.60
3	942.4	21.5	57	14	71	950	11	1.4	3.2	1330	15.40
4	943.3	21.8	51	11	62	866	31	0.7	3.9	606	21.70
5	944.5	21.6	56	11	67	939	36	1.1	5.0	1033	39.60
6	945.5	20.6	65	12	77	1038	45	1.0	6.0	1038	45.00
7	946.4	19.2	59	14	73	879	31	1.0	7.0	879	31.00
8	947.5	19.0	56	11	67	826	22	1.0	8.0	826	22.00
9	948.4	17.1	68	16	84	902	10	1.0	9.0	902	10.00
10	949.3	20.0	65	19	84	1008	27	0.5	9.5	504	13.50



KEY:
 SHALY SANDSTONE

N. 8 B. ENTERPRISES
 TOEDMAN LEASE WELL NO. 2
 WOODSON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVG. OIL CONTENT BBLs./A.FT.	TOTAL OIL CONTENT BBLs./ACRE	AVG. AIR PERMEABILITY MILLIDARCY
940.0 - 949.5	9.5	20.3	55.6	12.8	918	8,719	25.6

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 CHANUTE, KANSAS
 OCTOBER, 1968.

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

WSS SECTION