

OILFIELD RESEARCH LABORATORIES

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

April 19, 1968

Mr. E. J. Dunigan, Jr.
Box 261
Pampa, Texas 79065

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the Earl Davidson Lease, Well No. 3, Woodson County, Kansas, and submitted to our laboratory on April 17, 1968.

This core is from a virgin territory and was sampled and the samples were sealed in tin cans by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Carl L. Pate

CLP:bjo

3 c. - Pampa, Texas
2 c. - Chanute, Kansas

10-25-16E

Earl Davidson 3

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company E. J. Dunigan, Jr. Lease Earl Davidson Well No. 3

Location SW, SE, SE

Section 6 Twp. 25S Rge. 16E County Woodson State Kansas

Name of Sand - - - - - Lower Squirrel

Top of Core - - - - - 962.0

Bottom of Core - - - - - 977.0

Pay
Top of Sand - - - - - 962.3

Good
Bottom of Sand - - - - - 974.1

Total Feet of Permeable Sand - (Analyzed) - - - - - 7.6

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 100	1.5	1.5
100 - 200	4.6	6.1
200 & above	1.5	7.6

Average Permeability Millidarcys - - - - - 157.7

Average Percent Porosity - - - - - 22.5

Average Percent Oil Saturation - - - - - 54.5

Average Percent Water Saturation - - - - - 14.3

Average Oil Content, Bbls./A. Ft. - - - - - 949.

Total Oil Content, Bbls./Acre - - - - - 7,209.

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 E. J. Dunigan, Jr. Lease Earl Davidson Well No. 3

Depth Interval, Feet	Description
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962.0 - 962.3	- Grayish brown laminated shaly sandstone.
962.3 - 963.6	- Dark brown slightly laminated shaly sandstone.
963.6 - 964.2	- Gray & brown laminated shaly sandstone.
964.2 - 965.3	- Gray sandy shale.
965.3 - 965.8	- Dark brown sandstone.
965.8 - 966.3	- Gray & brown laminated shaly sandstone.
966.3 - 969.1	- Dark brown slightly laminated shaly sandstone.
969.1 - 969.8	- Brown & gray laminated sandy shale.
969.8 - 971.3	- Dark brown slightly laminated shaly sandstone.
971.3 - 972.6	- Alternate layers of sandstone & shale.
972.6 - 974.1	- Dark brown laminated shaly sandstone.
974.1 - 974.4	- Sandy shale.
974.4 - 974.8	- Dark brown carbonaceous sandstone.
974.8 - 977.0	- Sandy shale.

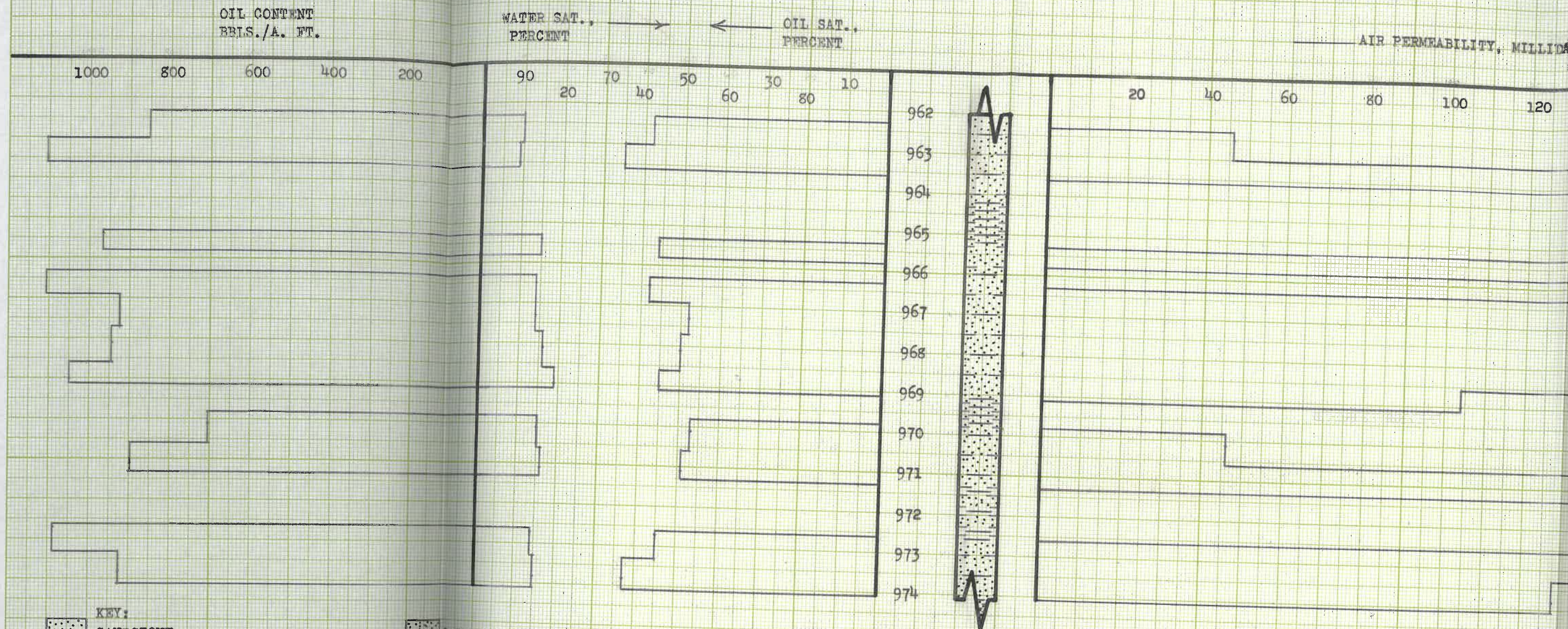
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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company E. J. Dunigan, Jr. Lease Earl Davidson Well No. 3

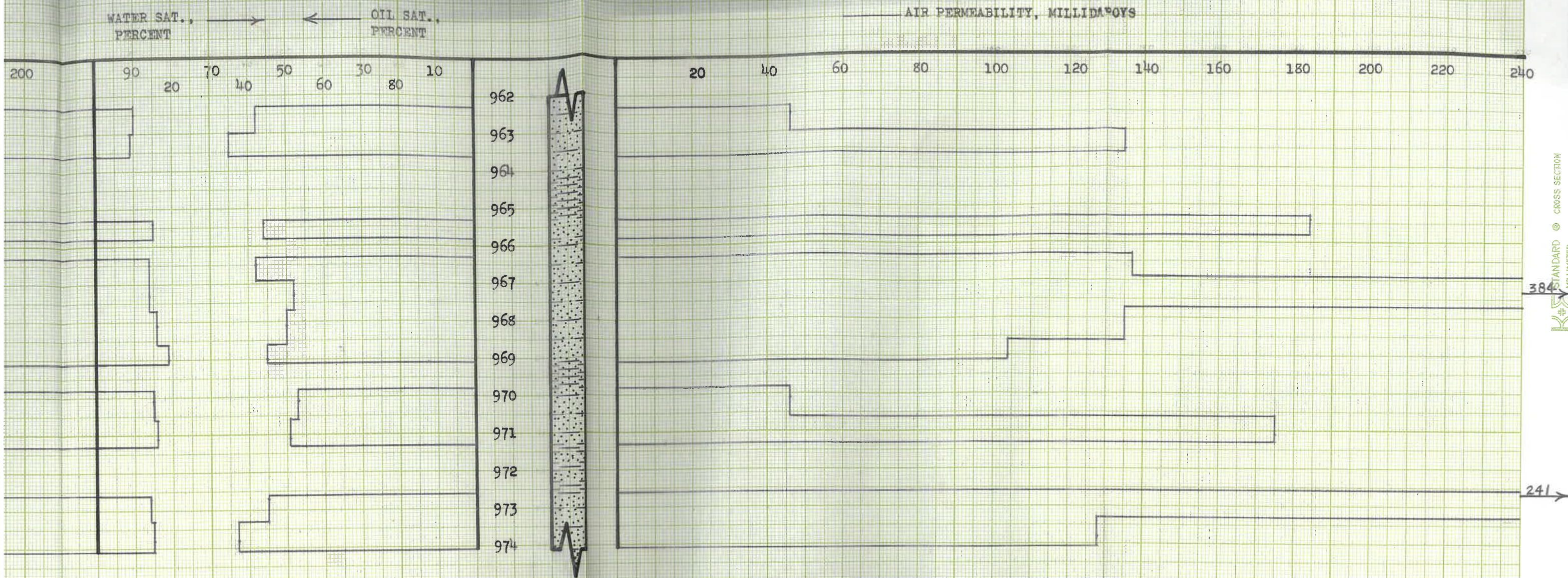
Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	962.5	18.9	58	10	68	851	46.	0.7	0.7	596	32.20
2	963.5	21.9	65	9	74	1105	135.	0.6	1.3	663	81.00
3	965.4	22.2	56	15	71	965	184.	0.5	1.8	482	92.00
4	966.5	24.6	58	14	72	1107	137.	0.6	2.4	664	82.20
5	967.3	24.8	48	14	62	924	384.	0.8	3.2	739	307.00
6	968.1	24.3	50	16	66	943	135.	0.9	4.1	848	121.50
7	969.0	24.6	55	19	74	1049	104.	0.5	4.6	525	52.00
8	970.1	19.3	47	15	62	704	46.	0.8	5.4	563	36.80
9	971.1	23.6	49	16	65	898	175.	0.7	6.1	628	122.50
10	972.7	25.5	55	14	69	1088	241.	0.7	6.8	762	168.70
11	973.8	18.9	63	15	88	924	128.	0.8	7.6	739	102.35



E. J. DUNIGAN, JR.

E. DAVIDSON LEASE WELL NO. 3
WOODSON COUNTY, KANSAS

DEPTH INTERVAL FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY PERCENT	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVG. OIL CONTENT BBLS./A. FT.	TOTAL OIL CONTENT BBLS./ACRE	AVG. AIR PERMEABILITY MILLIDARCYS
962.3 - 974.1	7.6	22.5	54.5	14.3	949.	7,209.	157.7



CARBONACEOUS SANDSTONE

SHALY SANDSTONE

ALTERNATE LAYERS OF SANDSTONE & SHALE

SANDY SHALE

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WOODSON COUNTY, KANSAS

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