



OILFIELD RESEARCH LABORATORIES

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

June 15, 1968

0-25-16E

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. 5, Woodson County, Kansas, and submitted to our laboratory on June 12, 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:bjø

5 c. - Pampa, Texas

Earl Davidson 5

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Company E. J. Dunigan, Jr. Lease Earl Davidson Well No. 5

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

963.0 - 964.1	- Gray & brown laminated shaly sandstone.
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964.1 - 964.7	- Dark brown sandstone.
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964.7 - 965.0	- Brown shaly sandstone.
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965.0 - 970.5	- Dark brown sandstone.
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970.5 - 975.0	- Dark brown laminated shaly sandstone.
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975.0 - 979.3	- Dark carbonaceous laminated shaly sandstone.
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979.3 - 987.0	- Sandy shale.
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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Mr. E. J. Dunigan, Jr.

Lease Earl Davidson

Well No. 5

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	964.2	20.5	63	10	73	1002	37.	0.6	0.6	601	22.20
2	965.1	20.9	51	16	67	827	46.	0.6	1.2	496	27.60
3	966.1	21.0	54	15	69	880	62.	1.0	2.2	880	62.00
4	967.1	22.0	50	18	68	854	57.	1.0	3.2	854	57.00
5	968.1	21.4	56	20	76	930	123.	1.0	4.2	930	123.00
6	969.1	19.7	55	21	76	840	78.	1.0	5.2	840	78.00
7	970.1	22.6	52	21	73	912	107.	0.9	6.1	821	96.30
8	971.1	21.8	54	21	75	913	145.	1.1	7.2	1004	159.50
9	972.1	20.4	48	24	72	760	198.	1.0	8.2	760	198.00
10	973.1	24.2	63	16	79	1183	202.	1.0	9.2	1183	202.00
11	974.1	20.6	61	18	79	975	407.	1.4	10.6	1365	570.00
12	976.1	21.5	66	14	80	1101	22.	1.5	12.1	1651	33.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Mr. E. J. Dunigan, Jr. Lease Earl Davidson Well No. 5

Depth Interval, Feet	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
964.1 - 970.5	964.1 - 970.5	6.1	76.4	466.10
970.5 - 976.5	970.5 - 976.5	6.0	193.7	1,162.50
964.1 - 976.5	964.1 - 976.5	12.1	134.6	1,628.60

Depth Interval, Feet	Feet of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre
964.1 - 970.5	6.1	21.2	54.2	17.8	890.	5,422.
970.5 - 976.5	6.0	21.6	59.1	18.2	994.	5,963.
964.1 - 976.5	12.1	21.4	56.6	18.0	941.	11,385.