



OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS 66720 - PHONE (316) 431-2650

December 23, 1976

Lance Ballard
820 Meadowbrook Road West
Iola, Kansas 66749

Dear Mr. Ballard:

Enclosed herewith are the results of tests run on the Rotary core taken from the Cummings "A" Lease, Well No. 9, Woodson County, Kansas, and submitted to our laboratory on December 17, 1976.

This core was sampled by a representative of Oilfield Research Laboratories after it was received in the laboratory.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

James E. Russell

James E. Russell

cc Perry S. Brigham

JER:vm

5 c to Iola, Kansas

GENERAL INFORMATION & SUMMARY

Elevation, Feet - - - - -

- LOG -

Company Lance Ballard Lease Cummings "A" Well No. 9

<u>Depth Interval, Feet</u>	<u>Description</u>
965.0 - 966.0	Brown very shaly sandstone.
966.0 - 968.0	Dark brown slightly shaly sandstone.
968.0 - 969.9	Grayish brown shaly sandstone.
969.9 - 974.0	Dark brown broken shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Lance Ballard Lease Cummings "A" Well No. 9

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	965.7	18.3	50	24	74	712	29.	1.1	1.1	784	31.90
2	966.5	18.4	54	19	73	772	11.	0.9	2.0	695	9.90
3	967.5	19.4	55	16	71	831	37.	1.0	3.0	831	37.00
4	968.5	20.9	54	19	73	879	8.1	1.0	4.0	879	8.10
5	969.5	17.1	50	36	86	664	0.73	0.9	4.9	597	0.66
6	970.5	18.5	53	23	76	761	41.	1.2	6.1	914	49.20
7	971.7	19.6	57	15	72	869	45.	1.0	7.1	869	45.00
8	927.6	20.4	55	15	70	873	106.	0.9	8.0	785	95.50
9	973.5	16.8	71	23	94	925	28.	1.0	9.0	925	28.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Lance Ballard Lease Cummings "A" Well No. 9

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
965.0 - 974.0	9.0	33.9	305.26

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
965.0 - 974.0	9.0	18.8	55.4	21.1	810	7,279