



OILFIELD RESEARCH LABORATORIES

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

August 20, 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 Lease, Well No. 3, Woodson County, Kansas, and submitted to our laboratory on August 16, 1976.

This core is from a virgin territory and was sampled by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Carl L. Pate

CLP:vm

5 c to Iola, Kansas.

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Lance Ballard Lease Cummings Well No. 3

Location 175'FWL & 615'ESL, NE $\frac{1}{4}$

Section 18 Twp. 25S Rge. 16E County Woodson State Kansas

Name of Sand - - - - - Squirrel

Top of Core - - - - - 995.0

Bottom of Core - - - - - 1001.6

Top of Sand - - - - - 997.3

Bottom of Sand - - (Cored) - - - - - 1001.6

Total Feet of Permeable Sand - - - - - 4.3

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

Average Permeability Millidarcys - - - - - 37.8

Average Percent Porosity - - - - - 18.8

Average Percent Oil Saturation - - - - - 69.2

Average Percent Water Saturation - - - - - 23.6

Average Oil Content, Bbls./A. Ft. - - - - - 1,000.

Total Oil Content, Bbls./Acre - - - - - 4,311.

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 Lance Ballard Lease Cummings Well No. 3

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
995.0 - 996.1	Gray shale.
996.1 - 997.3	Hard gray fossiliferous calcareous shale.
997.3 - 999.2	Dark brown shaly sandstone.
999.2 - 1001.6	Dark brown slightly laminated shaly sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Lance Ballard Lease Cummings 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	997.4	12.5	76	22	98	737	8.4	0.6	0.6	442	5.04
2	998.4	16.9	69	29	98	905	1.6	1.3	1.9	1,178	2.08
3	999.5	21.6	69	25	94	1,157	44.	0.8	2.7	926	35.20
4	1000.5	21.4	66	19	85	1,096	27.	1.0	3.7	1,096	27.00
5	1001.5	21.1	68	20	88	1,113	156.	0.6	4.3	669	93.50