



OILFIELD RESEARCH LABORATORIES

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

August 21, 1979

Coral Petroleum Development
c/o K & A Inc.
Suite 310
320 S Boston
Tulsa, Oklahoma 74103

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core taken from the D. J. Daniels Lease, Well No. 19, Allen County, Kansas, and submitted to our laboratory on August 16, 1979.

This core was sampled by a representative of Oilfield Research Laboratories.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

BRP:cgb

5 c to Tulsa, Oklahoma
1 c to Elsmore, Kansas

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Coral Petroleum Development Lease D. J. Daniels Well No. 19

Location 220' EWL & 1100' NSL SE

Section 16 Twp. 26S Rge. 21E County Allen State Kansas

Name of Sand Limestone Mississippi

First
Top of Core - - - - - 863.9

First
Bottom of Core - - - - - 864.1

Limestone
Top of Sand - - - - - 863.9

Limestone
Bottom of Sand - - - - - 864.1

Total Feet of Permeable Sand Limestone 0.2

Total Feet of Floodable Sand - - - - -

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

Average Permeability Millidarcys - - - - - 42.

Average Percent Porosity - - - - - 30.4

Average Percent Oil Saturation - - - - -

Average Percent Water Saturation - - - - -

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

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

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 - - - - -

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company	<u>Coral Petroleum Development</u>		Lease	<u>D. J. Daniels</u>		Well No.	<u>19</u>
Location	<u>220' EWL & 1100' NSL SE</u>						
Section	<u>16</u>	Twp.	<u>26S</u>	Rge.	<u>21E</u>	County	<u>Allen</u>
	<u>Limestone</u>					State	<u>Kansas</u>
Name of Sand							Mississippi
Second							
Top of Core							874.0
Second							
Bottom of Core							877.0
Limestone							
Top of Sand							874.0
Limestone							
Bottom of Sand							877.0
Limestone							
Total Feet of Permeable Sand							1.4
Total Feet of Floodable Sand							
Limestone							
Distribution of Permeable Sand:			Feet			Cum. Ft.	
Permeability Range							
Millidarcys							
1 - 5			1.4			1.4	
Average Permeability Millidarcys							2.5
Average Percent Porosity							11.7
Average Percent Oil Saturation							53.0
Average Percent Water Saturation							40.5
Average Oil Content, Bbls./A. Ft.							444.6
Total Oil Content, Bbls./Acre							1,065.
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							

OILFIELD RESEARCH LABORATORIES

- LOG -

Company Coral Petroleum
Development Lease D. J. Daniels Well No. 19

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
863.9 - 864.1	Gray brown and white conglomeratic slightly shaly limestone.
874.0 - 874.4	Dark brown sandy dolomitic limestone.
874.4 - 875.0	White and gray chert.
875.0 - 876.0	Tan and gray dolomitic limestone with scattered chert nodules.
876.0 - 877.0	White crystalline dolomitic limestone.
877.0 - 899.0	Loss.

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Coral Petroleum Development Lease D. J. Daniels Well No. 19

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			Ft.	Cum. Ft.		
1	864.0	30.4	-	-	-	42.6	0.2	0.2	-	8.40
2	874.3	14.7	48	48	96	4.6	0.4	0.6	219	1.84
3	875.1	14.7	39	54	93	1.6	1.0	1.6	445	1.60
4	876.2	7.5	69	24	93	Imp.	1.0	2.6	401	0.00

Oilfield Research Laboratories
SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Coral Petroleum Development			Lease	D. J. Daniels	Well No.	19
	Depth Interval, Feet	Feet of Core Analyzed		Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.		
	863.9 - 864.1	0.2		42.0	8.40		
	874.0 - 877.0	1.4		2.5	3.44		

	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
	863.9 - 864.1	0.2	30.4	-	-	-	-
	874.0 - 877.0	2.4	11.7	53.0	40.5	444	1,065