

OILFIELD RESEARCH LABORATORIES

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

October 10, 1980

Pineridge Development Corporation
14150 Elderberry Road
Golden, Colorado 80401

Gentlemen:

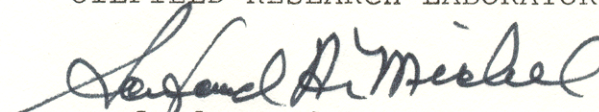
Enclosed herewith are the results of tests run on the rotary core taken from the Markley Lease, Well No. 6, located in Linn County, Kansas and submitted to our laboratory on September 8, 1980.

The core was sampled and sealed in plastic bags by a representative of the client.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES


Sanford A. Michel

SAM/ks

5 c to Golden, Colorado

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Pineridge Development Corporation Lease Markley Well No. 6
 Location NE $\frac{1}{4}$ NE $\frac{1}{4}$
 Section 1 Twp. 22S Rge. 23E County Linn State Kansas

Elevation, Feet	-	
Name of Sand		Upper Bartlesville
Top of Core		339.5
Bottom of Core		343.6
Top of Sand		339.5
Bottom of Sand		343.6
Total Feet of Permeable Sand		3.7

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
135 - 260	2.1	2.1
370 & Above	1.6	3.7

Average Permeability Millidarcys		297.6
Average Percent Porosity		22.8
Average Percent Oil Saturation		39.9
Average Percent Water Saturation		25.2
Average Oil Content, Bbls./A. Ft.		696.
Total Oil Content, Bbls./Acre		2,577.

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LOGName Pineridge Development CorporationLease MarkleyWell No. 6

<u>Depth Interval, Feet</u>	<u>Description</u>
339.5 - 342.6	Brown slightly calcareous sandstone.
342.6 - 343.0	Gray shale.
343.0 - 343.6	Brown slightly calcareous sandstone.

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Pineridge Development Corporation Lease Markley Well No. 6

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	339.6	24.4	30	26	56	568	236.	0.5	0.5	284	118.00
2	340.5	22.4	42	28	70	730	135.	1.0	1.5	730	135.00
3	341.5	26.4	45	17	62	922	371.	1.0	2.5	922	371.00
4	342.5	14.6	49	46	95	555	536.	0.6	3.1	333	321.60
5	343.5	24.5	27	13	40	513	259.	0.6	3.7	308	155.40

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

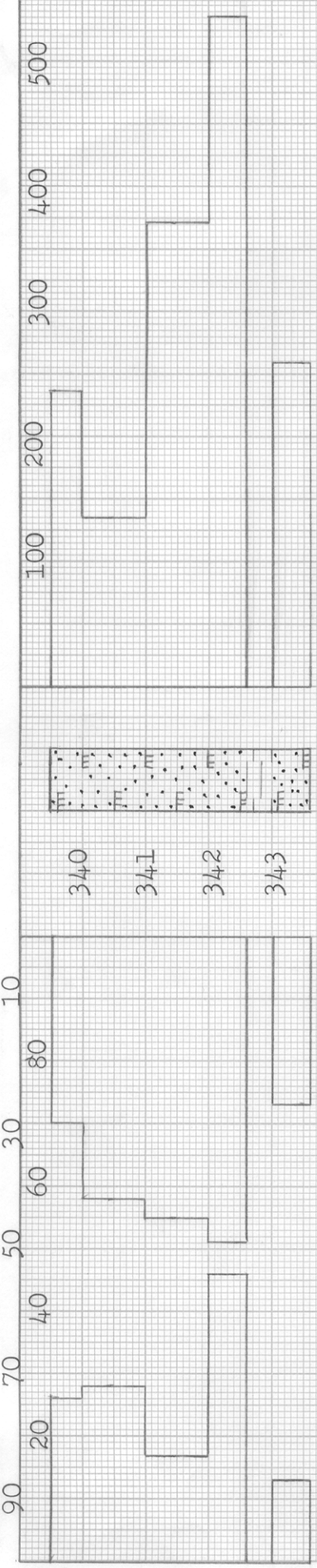
Company Pineridge Development Corporation Lease Markley Well No. 6

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
339.5 - 343.6	3.7	297.6	1101.00

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
339.5 - 343.6	3.7	22.8	39.9	25.2	696	2,577

WATER SAT., PERCENT → _____ PERMEABILITY, IN MILLIDARCYS

← OIL SAT., PERCENT



KEY:
 CALCAREOUS SANDSTONE
 SHALE

PINERIDGE DEVELOPMENT CORPORATION

MARKLEY LEASE WELL NO. 6

LINN COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY MILLIDARCYS
339.5 - 343.6	3.7	22.8	39.9	25.2	297.6