

# 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 samples taken from the Markley Lease, Well No. 3, located in Linn County, Kansas and submitted to our laboratory on September 4, 1980.

The core samples were sealed in plastic bags by a representative of the client. In examining this core, it is assumed that each sample represents one foot of core.

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. 3  
 Location -  
 Section 1 Twp. 22S Rge. 23E County Linn State Kansas

Elevation, Feet . . . . .	-
Name of Sand . . . . .	Lower Bartlesville
Top of Core . . . . .	421.0
Bottom of Core . . . . .	428.0
Top of Sand . . . . .	421.0
Bottom of Sand . . . . .	428.0
Total Feet of Permeable Sand . . . . .	4.0

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 6	3.0	3.0
40 & Above	1.0	4.0

Average Permeability Millidarcys . . . . .	12.9
Average Percent Porosity . . . . .	13.7
Average Percent Oil Saturation . . . . .	35.3
Average Percent Water Saturation . . . . .	43.9
Average Oil Content, Bbls./A. Ft. . . . .	373.
Total Oil Content, Bbls./Acre . . . . .	2,612.

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LOGName Pineridge Development CorporationLease MarkleyWell No. 3

<u>Depth Interval,</u> <u>Feet</u>	<u>Description</u>
421.0 - 427.0	Brown and gray laminated sandstone and shale.
427.0 - 428.0	Brown slightly calcareous sandstone.

## RESULTS OF SATURATION &amp; PERMEABILITY TESTS

TABLE 1-B

Company Pineridge Development Corp.Lease MarkleyWell 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	421.5	14.6	42	38	80	476	*	1.0	1.0	476	-
2	422.5	13.6	29	53	82	306	*	1.0	2.0	306	-
3	423.5	12.3	44	41	85	420	0.47	1.0	3.0	420	0.47
4	424.5	12.2	28	43	71	265	0.18	1.0	4.0	265	0.18
5	425.5	16.9	36	34	70	472	*	1.0	5.0	472	-
6	426.5	14.6	23	57	80	261	5.9	1.0	6.0	261	5.90
7	427.5	11.8	45	41	86	412	45.	1.0	7.0	412	45.00
	NOTE:	* Permeability sample unobtainable.									

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## SUMMARY OF PERMEABILITY & SATURATION TESTS

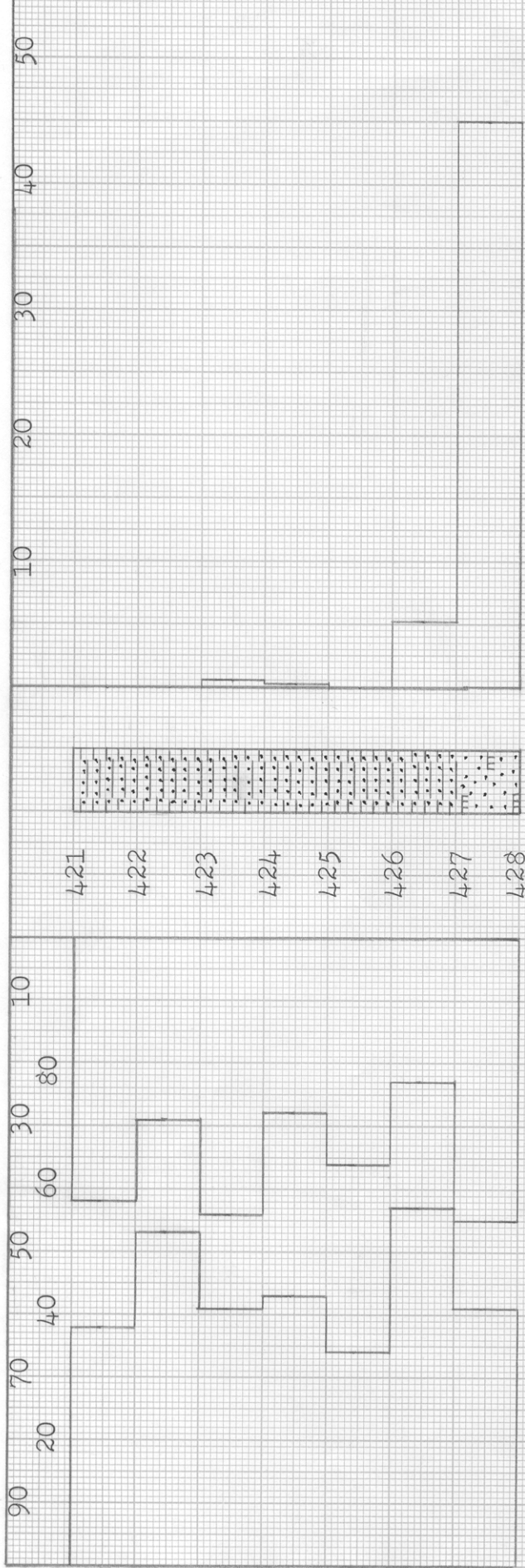
TABLE III

Company		Pineridge Development Corporation		Lease		Markley		Well No.		
								3		
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Average Permeability Capacity Ft. x Md.	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Average Permeability Capacity Ft. x Md.	Average Percent Oil Saturation	Average Percent Water Saturation	Total Oil Content Bbls./Acre
421.0 - 428.0	7.0	13.7	35.3	43.9	373	2,612	421.0 - 428.0	4.0	12.9	51.55

WATER SAT.,  
PERCENT

OIL SAT.,  
PERCENT

PERMEABILITY IN MILLIDARCYS



CALCAREOUS SANDSTONE

LAMINATED SANDSTONE AND SHALE

# PINERIDGE DEVELOPMENT CORPORATION

MARKLEY LEASE  
LINN COUNTY, KANSAS  
WELL NO. 3

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY MILLIDARCS
421.0 - 428.0	7.0	13.7	35.3	43.9	12.9

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 CHANUTE, KANSAS  
 OCTOBER, 1980

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