● CORE ANALYSIS ● WATER REPRESSURING ENGINEERING ● WATER ANALYSIS ● FLOODING WATER TREATMENT ● SURVEYING

OILFIELD RESEARCH LABORATORIES

- REGISTERED ENGINEERS -

700 NORTH MISSION
OKMULGEE, OKLAHOMA
PHONE: 4444

Chanute, Kansas

536 N. HIGHLAND
CHANUTE, KANSAS
PHONE: HE 1-2650

November 11, 1961

Paw-Cat Associates
1742 S. Minnesota
Wichita 11, Kansas

Gentlemen:

Attached hereto are the results of tests run on the Cable Tool core taken from the Brady Lease, Well No. 11, Franklin County, Kansas, and submitted to our laboratory on November 4, 1961.

This core was sampled and the samples sealed in cans by a representative of Oilfield Research Laboratories.

Because of the soft character of the sand we were unable to obtain permeability samples for the entire core.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman

Benjamin R. Pearman

BRP:rf
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Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Paw-Cat Associates Lease Brady Well No. 11

Location

Section 29 Twp. 15S Rge. 20E County Franklin State Kansas

Name of Sand	Squirrel
Top of Core	753.0
Bottom of Core	770.5
Top of Sand	753.0
Bottom of Sand	762.0
Total Feet of Permeable Sand (Tested)	5.8
Total Feet of Floodable Sand	

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
30 - 100	5.8	5.8

Average Permeability Millidarcys	53.1
Average Percent Porosity	20.6
Average Percent Oil Saturation	44.5
Average Percent Water Saturation	45.1
Average Oil Content, Bbls./A. Ft.	714.
Total Oil Content, Bbls./Acre	6,278.
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	

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LOG

Company Paw-Cat Associates Lease Brady Well No. 11

Depth Interval, Feet	Description
753.0 - 756.0	Brown sandstone.
756.0 - 757.6	Gray sandy limestone.
757.6 - 759.5	Brown sandstone.
759.5 - 759.7	Gray sandy limestone.
759.7 - 762.0	Brown sandstone.
762.0 - 770.5	Sandy shale.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Paw-Cat Associates Lease Brady Well No. 11

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	753.1	22.7	39	41	80	686	37.	0.6	0.6	412	22.20
2	754.1	21.8	42	45	87	710	37.	1.0	1.6	710	37.00
3	755.1	22.5	38	53	91	664	-	1.4	3.0	930	-
4	756.1	17.5	38	50	88	516	Imp.	1.6	4.6	826	0.00
5	758.1	16.6	47	45	92	606	36.	1.0	5.6	606	36.00
6	759.1	20.0	49	45	94	760	34.	0.9	6.5	684	30.60
7	760.1	20.4	54	39	93	855	100.	0.9	7.4	770	90.00
8	761.1	24.2	51	37	88	958	66.	1.4	8.8	1,340	92.40
								Total	-------	6,278	

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Paw-Cat Associates Lease Brady Well No. 11

Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
753.0 - 762.0	5.8	53.1	308.20

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
753.0 - 762.0	8.8	20.6	44.5	45.1	714	6,278