

OILFIELD RESEARCH LABORATORIES

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

October 4, 1978

Alco Drilling Company, Inc.
R.R. #3
Iola, Kansas 66749

Gentlemen:

Enclosed herewith are the results of tests run on the rotary core samples taken from the Brandon Lease, Well No. 2, Osage County, Kansas, and submitted to our laboratory on October 2, 1978.

These core samples were sampled by a representative of the client and were sealed in plastic bags. 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

Benjamin R. Pearman
Benjamin R. Pearman

BRP:km
5 c to Iola, Kansas

T. G. WRIGHT DONATION
1995

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GENERAL INFORMATION & SUMMARY

Company Alco Drilling Company, Inc. Lease Brandon Well No. 2

Location 330' NSL & 990' WEL SW SE SW

Section 31 Twp. 18S Rge. 15E County Osage State Kansas

Name of Sand	- - - - -	
Top of Core	- - - - -	1497.0
Bottom of Core	- - - - -	1513.0
Top of Sand	- - - - -	1497.0
Bottom of Sand	- - - - -	1513.0
Total Feet of Permeable Sand	- - - - -	10.0
Total Feet of Floodable Sand	- - - - -	

Distribution of Permeable Sand:
Permeability Range
Millidarcys

	Feet	Cum. Ft.
0 - 25	4.0	4.0
25 - 55	2.0	6.0
55 - 90	3.0	9.0
90 & Above	1.0	10.0

Average Permeability Millidarcys	- - - - -	54.5
Average Percent Porosity	- - - - -	19.5
Average Percent Oil Saturation	- - - - -	27.8
Average Percent Water Saturation	- - - - -	51.2
Average Oil Content, Bbls./A. Ft.	- - - - -	428.
Total Oil Content, Bbls./Acre	- - - - -	4,283.
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 Alco Drilling Company, Inc. Lease Brandon Well No. 2

<u>Depth Interval, Feet</u>	<u>Description</u>
1497.0 - 1498.0	Light brown sandstone.
1498.0 - 1499.0	Light brown shaly sandstone.
1499.0 - 1500.0	Light brown slightly shaly sandstone.
1500.0 - 1501.0	Light brown laminated shaly sandstone.
1501.0 - 1505.0	Light brown sandstone.
1511.0 - 1513.0	Light brown sandstone.

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RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE I-B

Company Alco Drilling Company, Inc. Lease Brandon Well No. 2

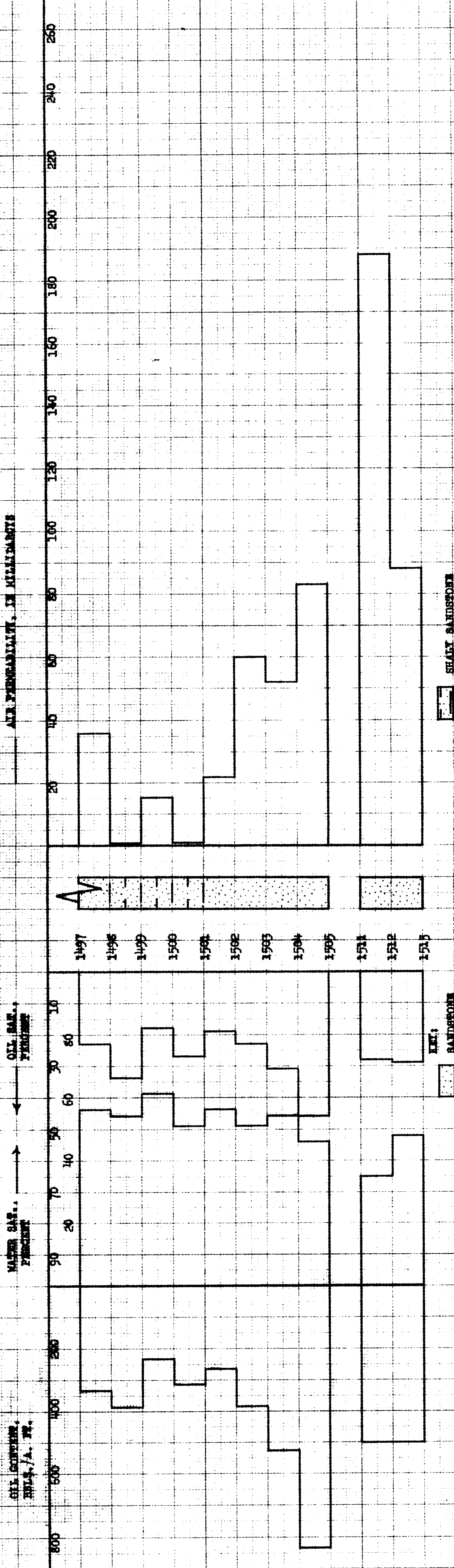
Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation			Oil Content Bbls. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X ind.
			Oil	Water	Total			Ft.	Cum. Ft.		
1	1497.5	18.8	23	56	79	336	36.	1.0	1.0	336	36.00
2	1498.5	14.7	34	54	88	388	0.39	1.0	2.0	388	0.39
3	1499.5	16.6	18	61	79	232	15.	1.0	3.0	232	15.00
4	1500.5	15.0	27	51	78	314	0.89	1.0	4.0	314	0.89
5	1501.5	18.0	19	56	75	265	22.	1.0	5.0	265	22.00
6	1502.5	21.7	23	51	74	387	60.	1.0	6.0	387	60.00
7	1503.5	21.9	31	54	85	527	52.	1.0	7.0	527	52.00
8	1504.5	23.3	46	46	92	832	83.	1.0	8.0	832	83.00
9	1511.5	23.0	28	35	63	500	188.	1.0	9.0	500	188.00
10	1512.5	22.3	29	48	77	502	88.	1.0	10.0	502	88.00

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SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company		Alco Drilling Company, Inc.		Lease		Brandon		Well No.		3	
Depth Interval, Feet		Feet of Core Analyzed		Average Permeability, Millidarcys		Permeability Capacity Ft. x Md.					
1497.0 - 1513.0		10.0		54.5		545.28					
Depth Interval, Feet		Feet of Core Analyzed		Average Percent Oil Saturation		Average Percent Water Saturation		Average Oil Content Bbl./A. Ft.		Total Oil Content Bbls./Acre	
1497.0 - 1513.0		10.0		27.8		51.2		428		4,283	



ALCO DRILLING COMPANY, INCORPORATED

DEPTH INTERVAL, FEET OF CORE ANALYZED	AVERAGE PERCENT SATURATION	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVG. OIL CONTENT	TOTAL OIL CONTENT	AVG. AIR PERMEABILITY, MILLIDARIES
1497.0 - 1513.0	10.0	19.5	27.8	51.2	4.283	54.5