

# OILFIELD RESEARCH LABORATORIES

- REGISTERED ENGINEERS -

700 NORTH MISSION  
OKMULGEE, OKLAHOMA  
PHONE: 4444

Chanute, Kansas

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

November 28, 1961

Sutcliffe Pipe & Supply  
P.O. Box 525  
Chanute, Kansas

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the Corbett "B" Lease, Well No. 2, Neosho County, Kansas, and submitted to our laboratory on November 22, 1961.

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

Because of the laminated nature of the sand, it was impossible 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

5 c.

# Oilfield Research Laboratories

## GENERAL INFORMATION & SUMMARY

Company Sutcliffe Pipe & Supply Lease Corbett "B" Well No. 2

Location 400' West of East line & 990' North of South line SE

Section 13 Twp. 27S Rge. 19E County Neosho State Kansas

Name of Sand - - - - - Lower Bartlesville?

Top of Core - - - - - 762.0

Bottom of Core - - - - - 783.0

Top of Sand - - - - - 763.0

Bottom of Sand - - - - - 783.0

Total Feet of Permeable Sand - - - - - (Tested) 15.0

Total Feet of Floodable Sand - - - - -

**Distribution of Permeable Sand:**  
Permeability Range  
Millidarcys

	Feet	Cum. Ft.
0 - 5	4.0	4.0
5 - 50	7.0	11.0
50 - 100	2.0	13.0
200 - 400	1.0	14.0
400 & above	1.0	15.0

Average Permeability Millidarcys - - - - - 63.2

Average Percent Porosity - - - - - 15.8

Average Percent Oil Saturation - - - - - 49.9

Average Percent Water Saturation - - - - - 24.1

Average Oil Content, Bbls./A. Ft. - - - - - 601.

Total Oil Content, Bbls./Acre - - - - - 11,567.

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 - - - - -

LOGCompany Sutcliffe Pipe & Supply Lease Corbett "B" Well No. 2

<u>Depth Interval,</u>	<u>Description</u>
<u>Feet</u>	

762.0 - 763.0 - Sandy shale.

763.0 - 765.0 - Brown sandstone.

765.0 - 776.0 - Brown to dark laminated shaley sandstone.

776.0 - 777.0 - Sandy shale.

777.0 - 783.0 - Dark laminated shaley sandstone.

Oilfield Research Laboratories

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

Company Sutcliffe Pipe & Supply Lease Corbett "B" Well No. 2

Sample No.	Depth, Feet	Effective Porosity Percent	Percent Saturation		Oil Content Bbbs. / A Ft.	Perm., Mill.	Feet of Sand		Total Oil Content	Perm. Capacity Ft. X md.
			Oil	Water			Ft.	Cum. Ft.		
1	763.5	15.3	52	24	617	485.	1.0	1.0	617	485.00
2	764.5	19.1	43	18	638	231.	1.0	2.0	638	231.00
3	765.5	15.3	50	31	594	11.	1.0	3.0	594	11.00
4	766.5	17.6	44	25	601	2.1	1.0	4.0	601	2.10
5	767.5	15.3	70	22	830	27.	1.0	5.0	830	27.00
6	768.5	18.0	43	20	601	5.8	1.0	6.0	601	5.80
7	769.5	15.4	44	33	526	5.3	1.0	7.0	526	5.30
8	770.5	16.1	48	16	600	50.	1.0	8.0	600	50.00
9	771.5	14.2	60	19	660	-	1.0	9.0	660	-
10	772.5	15.2	39	33	460	-	1.0	10.0	460	-
11	773.5	14.0	49	26	532	0.57	1.0	11.0	532	0.57
12	774.5	15.6	53	32	641	4.5	1.0	12.0	641	4.50
13	775.5	15.3	58	22	688	Imp.	1.0	13.0	688	0.00
14	777.5	14.6	32	22	362	-	1.0	14.0	362	-
15	778.5	15.4	49	17	586	0.42	1.0	15.0	586	0.42
16	779.5	17.5	48	22	652	7.1	1.0	16.0	652	7.10
17	780.5	16.1	54	28	674	11.	1.0	17.0	674	11.00
18	781.5	16.5	50	19	640	55.	1.0	18.0	640	55.00
19	782.5	14.3	60	29	665	54.	1.0	19.0	665	54.00
Total									11,567	

# Oilfield Research Laboratories

## SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company Sutcliffe Pipe & Supply Lease Corbett "B" Well No. 2

Depth Interval, Feet	Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Fl. x Md.
763.0 - 765.0	763.0 - 765.0	2.0	308.0	716.00
765.0 - 776.0	765.0 - 776.0	6.0	17.4	106.27
777.0 - 783.0	777.0 - 783.0	7.0	18.2	127.52
763.0 - 783.0	763.0 - 783.0	15.0	63.2	949.79

  

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
763.0 - 765.0	2.0	17.2	47.5	21.0	628	1,255
765.0 - 776.0	11.0	15.6	50.6	25.4	611	6,733
777.0 - 783.0	6.0	15.7	48.9	22.8	595	3,579
763.0 - 783.0	19.0	15.8	49.9	24.1	601	11,567