

OILFIELD RESEARCH LABORATORIES

536 NORTH HIGHLAND - CHANUTE, KANSAS - PHONE HE1-2650

October 12, 1966

N & B Enterprises
P.O. Box 229
Chanute, Kansas

Gentlemen:

Enclosed herewith are the results of tests run on the Rotary core taken from the Barsch Lease, Well No. N-4, Montgomery County, Kansas, and submitted to our laboratory on October 8, 1966.

This core was sampled and the samples sealed in cans by a representative of Oilfield Research Laboratories. The well was drilled in virgin territory.

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

BRP:rf

5 c.

12-31-16E

N-4

Barsch

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company N & B Enterprises Lease Barsch Well No. N-4

Location 165' NSL & 165' EWL, SE $\frac{1}{4}$

Section 12 Twp. 31S Rge. 16E County Montgomery State Kansas

Name of Sand	- - - - -	Upper	Lower	B'ville
Top of Core	- - - - -	884.0		925.0
Bottom of Core	- - - - -	900.3		934.0
Top of Sand	- - - - - (Tested) - - - - -	884.0		925.0
Bottom of Sand	- - - - -	893.2		932.7
Total Feet of Permeable Sand	- - - - -	6.0		3.0
Total Feet of Floodable Sand	- - - - -			

Distribution of Permeable Sand:
Permeability Range
Millidarcys

		Feet	Cum. Ft.
Upper	0 - 2.0	4.4	4.4
	2 - 6.1	1.6	6.0
Lower	0 - 1.0	3.0	3.0

Average Permeability Millidarcys	- - - - -	2.2	0.51
Average Percent Porosity	- - - - -	13.7	12.4
Average Percent Oil Saturation	- - - - -	33.4	32.6
Average Percent Water Saturation	- - - - -	39.8	53.5
Average Oil Content, Bbls./A. Ft.	- - - - -	353.	318.
Total Oil Content, Bbls./Acre	- - - - -	3,243.	2,452.
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	- - - - -		

-LOG-

Company N & B Enterprises Lease Barsch Well No. N-4Depth Interval, Description
FeetUPPER BARTLESVILLE

884.0 - 884.7 - Grayish brown, fine grained sandstone.

884.7 - 886.0 - Gray, laminated, sandy shale.

886.0 - 890.9 - Brown, fine grained, shaly sandstone.

890.9 - 893.2 - Grayish brown, finely laminated, sandstone and shale.

893.2 - 900.3 - Gray, laminated, sandy shale.

LOWER BARTLESVILLE

925.0 - 931.6 - Dark gray, shaly sandstone containing angular fractures.

931.6 - 932.7 - Gray shaly sandstone.

932.7 - 933.2 - Dark gray shale containing angular fractures.

933.2 - 933.6 - Coal.

933.6 - 934.0 - Dark gray shale.

Oilfield Research Laboratories

SUMMARY OF PERMEABILITY & SATURATION TESTS

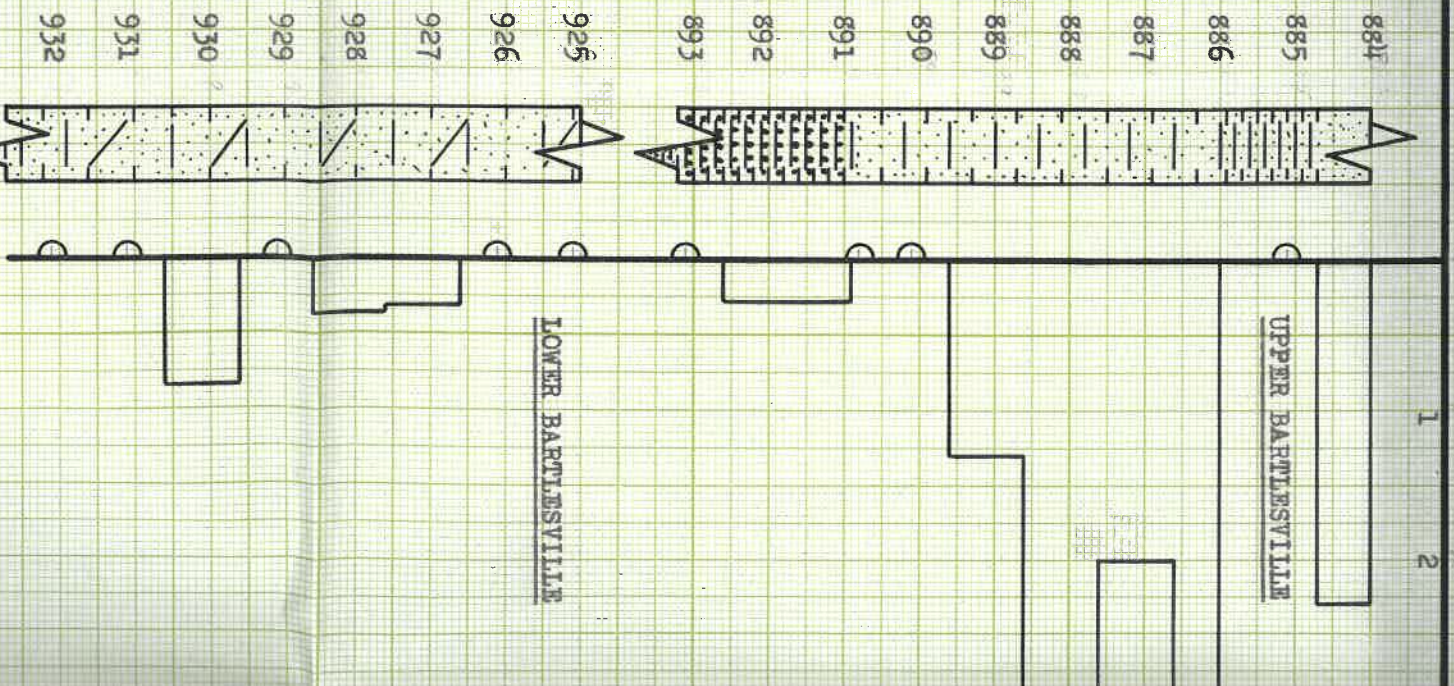
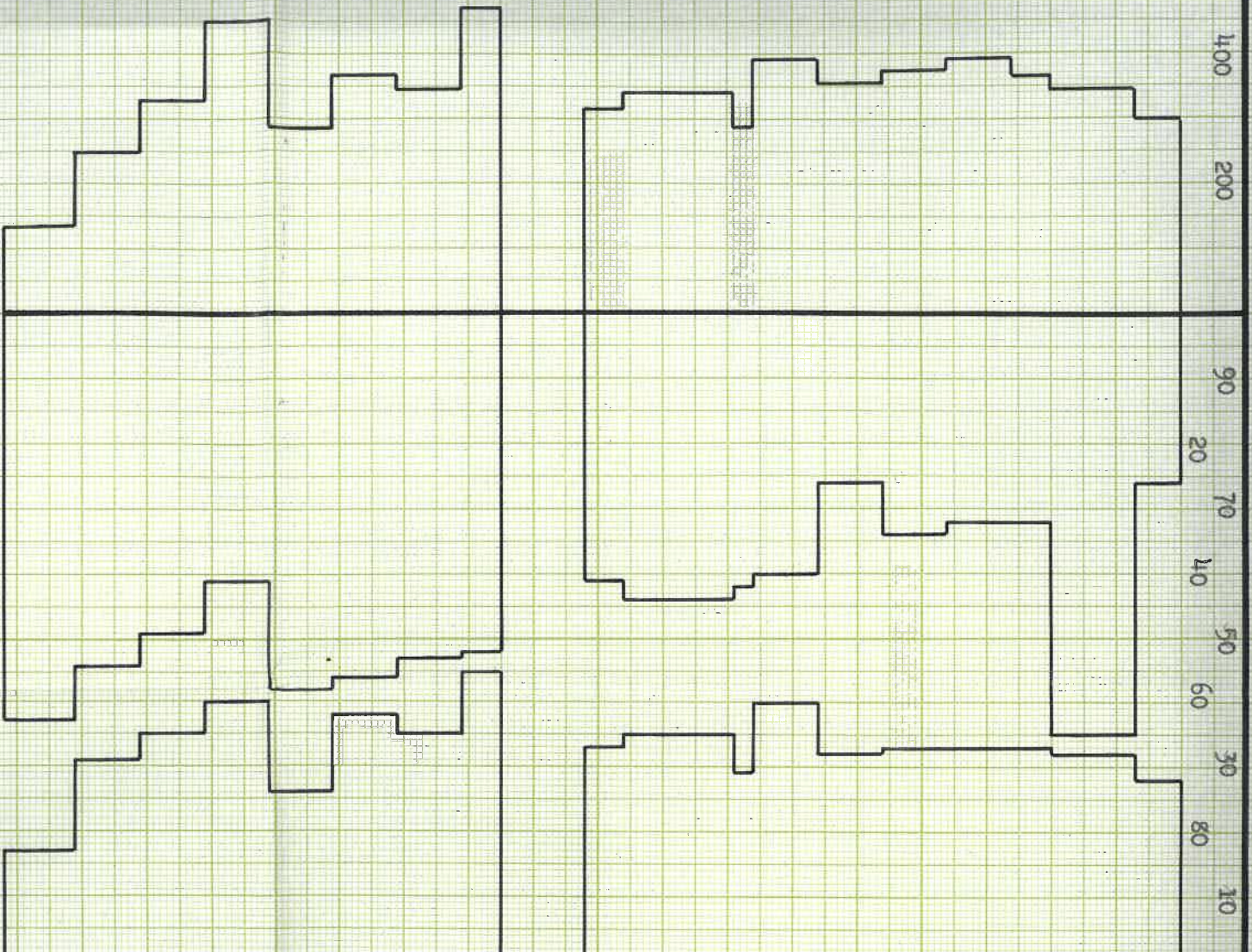
TABLE III

Company	Lease	Barsch	Well No.
N & B Enterprises			N-4
<u>UPPER BARTLESVILLE</u>			
Depth Interval, Feet	Fest of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.
884.0 - 893.2	6.0	2.2	12.95
<u>LOWER BARTLESVILLE</u>			
925.0 - 932.7	3.0	0.51	1.53
<u>UPPER BARTLESVILLE</u>			
Depth Interval, Feet	Fest of Core Analyzed	Average Percent Porosity	Average Percent Oil Saturation
884.0 - 893.2	9.2	13.7	33.4
<u>LOWER BARTLESVILLE</u>			
925.0 - 932.7	7.7	12.4	32.6
<u>UPPER BARTLESVILLE</u>			
		Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.
		39.8	353
		53.5	318
			Total Oil Content Bbl./Acre
			3,243
			2,452

OIL CONTENT,
BBLs./A. FT.

WATER SAT.,
PERCENT

OIL SAT.,
PERCENT



FORMATION CONTAINING ANGULAR FRACTURES
SANDSTONE

LAMINATED SANDSTONE
SHALY SANDSTONE

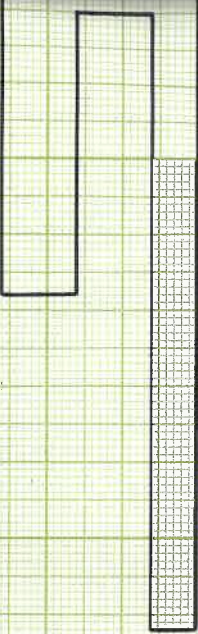
N & B EN
BARSCHE LEASE
MONTGOMERY C

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY, PERCENT	AVG. OIL SATURATION PERCENT
UPPER BARTLESVILLE 884.0 - 893.2	9.2	13.7	35.4
LOWER BARTLESVILLE 925.0 - 932.7	7.7	12.4	32.6

AIR PERMEABILITY, IN MILLIDARCS

2 3 4 5 6 7 8 9 10 11 12 13 14 15

11E



11E

SANDSTONE & SHALE



SANDY SHALE

○ IMPERMEABLE TO AIR

SDSTONE



SHALE

ENTERPRISES

MONTGOMERY COUNTY, KANSAS

WELL NO. N-14

AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVG. OIL CONTENT BBLs./A. FT.	TOTAL OIL CONTENT BBLs./ACRE	AVG. AIR PERMEABILITY, MILLIDARCS
33.4	39.8	353	3,243	2.2
32.6	53.5	318	2,452	0.51

OILFIELD RESEARCH LABORATORIES
 CHANUTE, KANSAS
 OCTOBER, 1966