

# OILFIELD RESEARCH LABORATORIES

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

June 24, 1980

N & B Enterprises  
Box 884  
Chanute, Kansas 66720

Gentlemen:

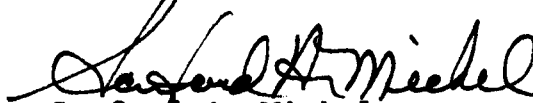
Enclosed herewith are the results of tests run on the rotary core samples taken from the Horsch "B" Lease, Well No. 5, Woodson County, Kansas, and submitted to our laboratory on June 12, 1980.

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/tem

5 c to Chanute, Kansas

# Oilfield Research Laboratories

## GENERAL INFORMATION & SUMMARY

Company N & B Enterprises Lease Horsch "B" Well No. 5  
 Location NW $\frac{1}{4}$  NE $\frac{1}{4}$  SE $\frac{1}{4}$   
 Section 8 Twp. 25S Rge. 16E County Woodson State Kansas

Elevation, Feet . . . . .	
Name of Sand . . . . .	Squirrel
Top of Core . . . . .	926.0
Bottom of Core . . . . .	940.0
Top of Sand . . . . .	926.0
Bottom of Sand . . . . .	940.0
Total Feet of Permeable Sand . . . . .	5.9

Distribution of Permeable Sand: Permeability Range Millidarcys	Feet	Cum. Ft.
0 - 30	2.0	2.0
60 - 80	2.9	4.9
135 & Above	1.0	5.9

Average Permeability Millidarcys . . . . .	62.8
Average Percent Porosity . . . . .	19.3
Average Percent Oil Saturation . . . . .	51.9
Average Percent Water Saturation . . . . .	20.6
Average Oil Content, Bbls./A. Ft. . . . .	779.
Total Oil Content, Bbls./Acre . . . . .	4,596.

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Name N & B Enterprises Lease Horsch "B" Well No. 5

Depth Interval,  
Feet

Description

926.0 - 929.9

Dark brown sandstone.

929.9 - 938.0

Core not received.

938.0 - 938.8

Dark brown shaly sandstone.

938.8 - 940.0

Dark brown sandstone.

**Oilfield Research Laboratories**

**RESULTS OF SATURATION & PERMEABILITY TESTS**

**TABLE 1-B**

Company N & B Enterprises Lease Horsch "B" Well No. 5

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	926.5	20.5	40	31	71	636	76.	1.0	1.0	636	76.00
2	927.5	18.3	52	17	69	738	62.	1.0	2.0	738	62.00
3	928.5	19.3	47	18	65	704	137.	1.0	3.0	704	137.00
4	929.5	16.5	49	17	66	627	68.	0.9	3.9	564	61.20
5	938.5	20.5	55	25	80	875	3.6	0.8	4.7	700	2.88
6	939.5	20.4	66	17	83	1045	26.	1.2	5.9	1254	31.20

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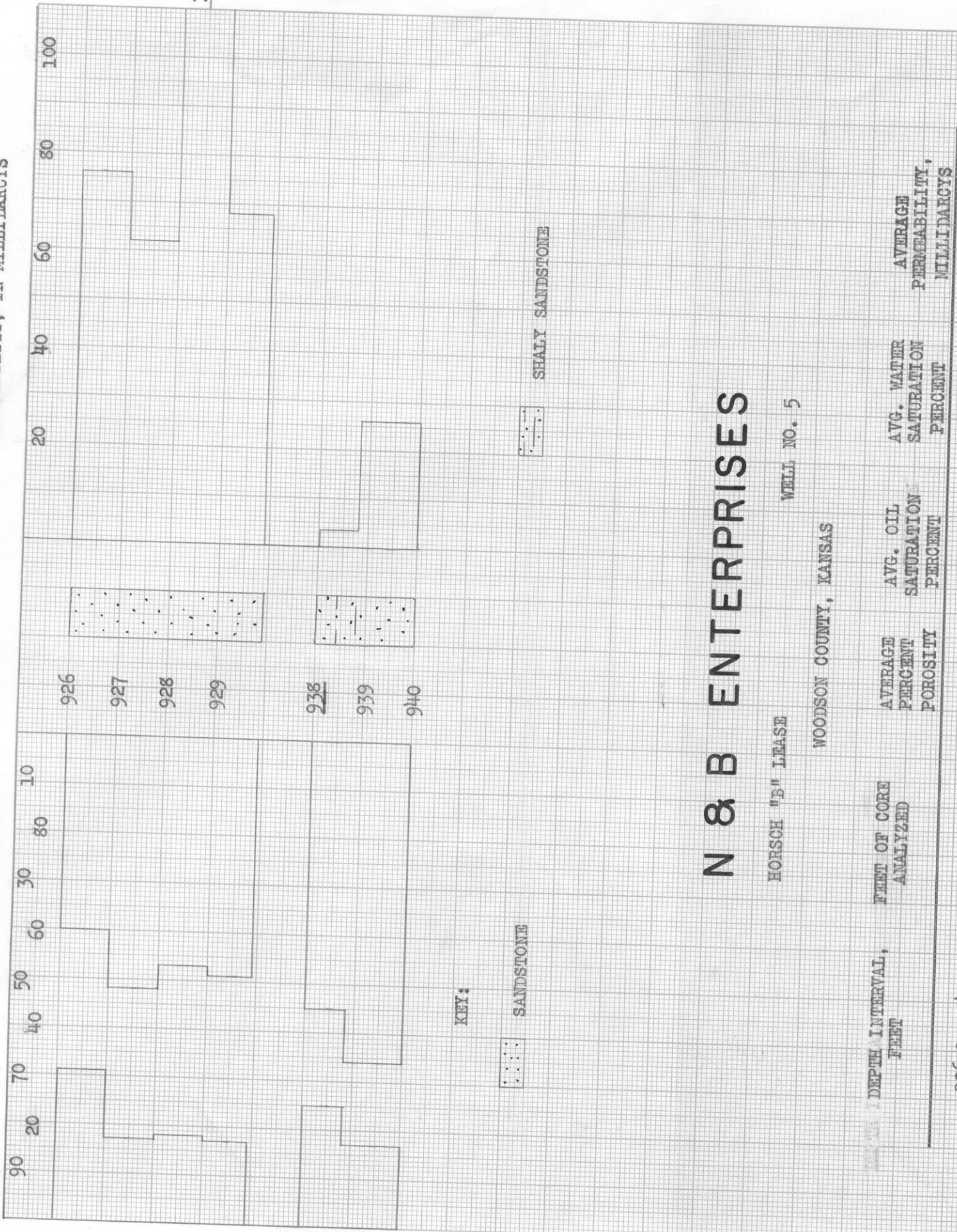
## SUMMARY OF PERMEABILITY & SATURATION TESTS

TABLE III

Company	Lease	Well No.							
N & B Enterprises	Horsch "B"	5							
Depth Interval, Feet	Feet of Core Analyzed	Average Permeability, Millidarcys	Permeability Capacity Ft. x Md.	Average Percent Oil Saturation	Average Percent Water Saturation	Average Oil Content Bbl./A. Ft.	Total Oil Content Bbls./Acre		
926.0 - 940.0	5.9	62.8	370.28	51.9	20.6	779	4,596		
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			
926.0 - 940.0	5.9	19.3	51.9	20.6	779	4,596			

OIL SAT., PERCENT

PERMEABILITY, IN MILLIDARCY



# N & B ENTERPRISES

HORSCH "B" LEASE  
WELL NO. 5

WOODSON COUNTY, KANSAS

KEY:

SANDSTONE

SHALY SANDSTONE

DEPTH INTERVAL, FEET OF CORE ANALYZED

AVERAGE POROSITY PERCENT

AVERAGE OIL SATURATION PERCENT

AVERAGE WATER SATURATION PERCENT

AVERAGE PERMEABILITY, MILLIDARCY

# N & B ENTERPRISES

HORSCH "B" LEASE

WELL NO. 5

WOODSON COUNTY, KANSAS

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE PERCENT POROSITY	AVG. OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVERAGE PERMEABILITY, MILLIDARCY
926.0 - 940.0	5.9	19.3	51.9	20.6	62.8

OILFIELD RESEARCH LABORATORIES  
 CHANUTE, KANSAS  
 JUNE, 1980.  
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