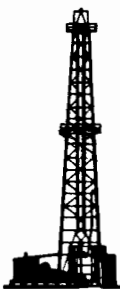


18-17-24E

OILFIELD RESEARCH LABORATORIES

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

July 21, 1966



Panik Petroleum Company, Inc.
9518 Melrose Drive
Overland Park, Kansas

Gentlemen:

Enclosed herewith are the results of tests run on the Cable Tool core taken from the T.R. Crawford Lease, Well No. 4, Miami County, Kansas, and submitted to our laboratory on July 16, 1966.

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

Your business is greatly appreciated.

Very truly yours,

OILFIELD RESEARCH LABORATORIES

Benjamin R. Pearman
Benjamin R. Pearman

BRP:rf

3 c.

Oilfield Research Laboratories

GENERAL INFORMATION & SUMMARY

Company Panik Petroleum Co., Inc. Lease T.R. Crawford Well No. 4

Location SW

Section 18 Twp. 17S Rge. 24E County Miami State Kansas

Name of Sand	Peru
Top of Core	387.5
Bottom of Core	399.0
Top of Sand (Tested)	387.5
Bottom of Sand	397.0
Total Feet of Permeable Sand	1.6
Total Feet of Floodable Sand	

Distribution of Permeable Sand:
Permeability Range
Millidarcys

Feet

Cum. Ft.

0 - 12

1.6

1.6

Average Permeability Millidarcys	5.1
Average Percent Porosity	13.6
Average Percent Oil Saturation	32.5
Average Percent Water Saturation	61.1
Average Oil Content, Bbls./A. Ft.	334.
Total Oil Content, Bbls./Acre	3,512.
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	

OILFIELD RESEARCH LABORATORIES

-LOG-

Company Panik Petroleum Co., Inc. Lease T.R. Crawford Well No. 4

Depth Interval, Description
Feet

387.5 - 397.0 - Gray and light brown, laminated, shaly sandstone.

397.0 - 399.0 - Sandy shale.

RESULTS OF SATURATION & PERMEABILITY TESTS

TABLE 1-B

[illegible]

OIL CONTENT,
BBLS./A. FT.

WATER SAT.,
PERCENT

OIL SAT.,
PERCENT



SHALY SANDSTONE

PANIK PETROLEUM COMPANY,

P. R. CRAWFORD LEASE

MIAMI COUNTY, KANSAS

WELL 1

DEPTH INTERVAL, FEET	FEET OF CORE ANALYZED	AVERAGE POROSITY, PERCENT	AVG. OIL SATURATION PERCENT	AVG. SATUR PERCENT
387.5 - 398.0	10.5	13.6	32.5	

AIR PERMEABILITY, IN MILLIDARCS

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



SANDY SHALE

○ IMPERMEABLE TO AIR

APANY, INC.

WELL NO. 1

OIL SATURATION PERCENT	AVG. WATER SATURATION PERCENT	AVG. OIL CONTENT BBLS./A. FT.	FOCAL OIL CONTENT BBLS./ACHT	AVG. AIR PERMEABILITY, MILLIDARCS
1.5	61.1	334	3.512	5.1

OILFIELD RESEARCH LABORATORIES
CHANDLER, KANSAS
JUNE, 1966