

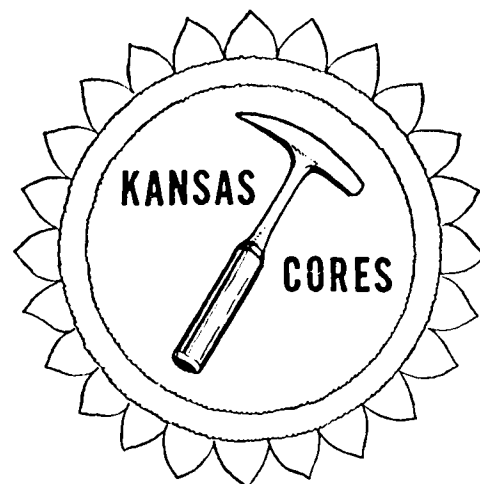
COMPANY LEE PHILLIPS OIL & ADAIR OIL

WELL LADD #7

LOCATION NE NE NW 19-25-9E

COUNTY GREENWOOD

STATE KANSAS



PETROLEUM RESERVOIR ENGINEERING
CORE ANALYSIS

Kansas Cores

PETROLEUM RESERVOIR ENGINEERING

WICHITA, KANSAS

COMPANY: **Los Phillips & Adair Oil**

DATE: **7-11-65**

WELL: **Ladd #7**

ANALYST: **IS**

FIELD: **Teichgraber**

COUNTY: **Greenwood**

STATE: **Kansas**

The analyses and interpretations are based on material brought to Kansas Cores by the client, and such data and interpretations are accessible only to that company which the client represents. Kansas Cores makes no warranty and makes no guarantee for the interpretations and opinions of the data. Our opinions of an analysis are placed at the discretion of the operator.

PERMEABILITY MILLIDARCY'S O—O

200 150 100 50 0

POROSITY—% X—X

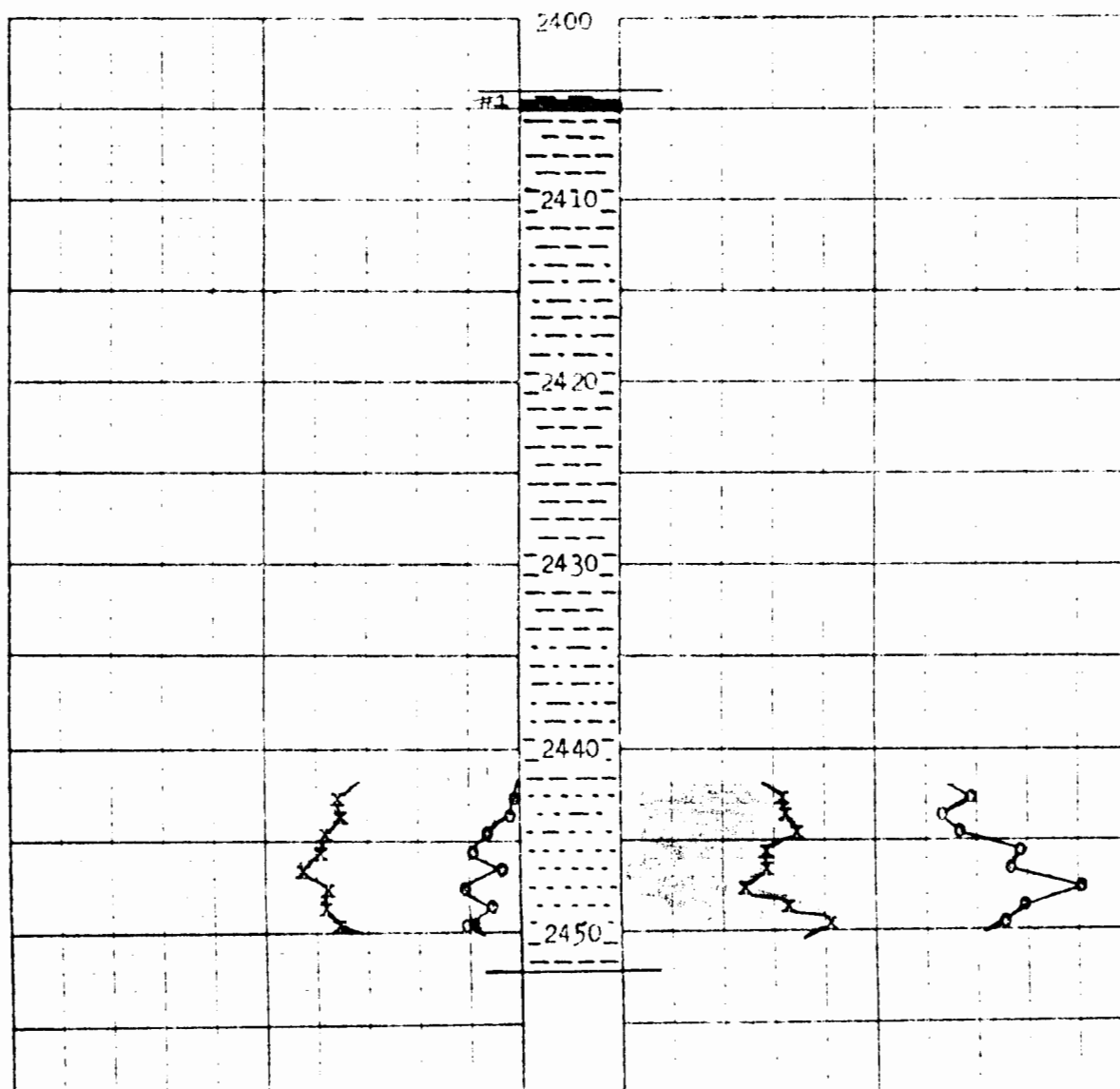
20 10 0

CONNATE WATER % SATURATION

0 70 60 50 40 O—O

OIL % PORE SATURATION X—X

10 20



Kansas Cores

PETROLEUM RESERVOIR ENGINEERING

CORE ANALYSIS

July 11, 1965

1026 NORTH LIGHTNER
WICHITA, KANSAS 67208

Re: CORE ANALYSIS REPORT
Lee Phillips Oil & Adair Oil
Ladd #7
Greenwood County
Kansas

Lee Phillips Oil Co.
Wichita Plaza Bldg.
Wichita, Kansas

Gentlemen:

The cores from your well, Ladd #7, Greenwood County, Kansas have been analysed for permeability, porosity, and residual saturation of oil and water. The data will be found tabulated on the following pages and indicated on the coregraph. The data averages and recovery figures will be found at the end of this report.

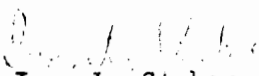
The following is a short discussion of the section cored and analysed.

2442' to 2450' - Oil Productive

The Bartlesville encountered at this depth was composed of a very fine grained tight sand at the top with a few thin shale streaks, grading downward to a fine grained friable clean sand. Good oil saturation and low water percentages were measured throughout. The permeabilities were slightly lower than average, but good porosities were noted. A commercial, water free completion can be expected from this zone.

Yours very truly,

KANSAS CORES


Ivan L. Stuber

Attachments

cc: 3 copies to Lee Phillips Oil Co., Wichita, Ks.
3 copies to Adair Oil Co., Wichita, Ks.

Re: CORE DESCRIPTION
Lee Phillips & Adair Oil
Ladd #7
Greenwood County, Kansas

CORE #1

2404' to 2452'

Cut 48'

Rec. 48'

- 1' Black shale and lignite
- 5' Hard grey silty shale
- 3' Grey shale
- 6' Silty and slightly sandy shale
- 7' Waxy grey to green shale
- 2' Rotten dark grey to black shale
- 6' Hard grey-green shale
- 5' Hard light grey quartzitic to silty shaley sand:
No show
- 3' Banded grey shale and tight silty sand: No show
- 1' Soft fine grained tight grey-green sand: Good stain
and odor
- 2' Same sand as above with few thin hard grey shale
streaks: Good stain and odor
- 5' Soft fine grained slightly friable greenish-brown
sand: Good stain and odor
- 2' Hard grey to black shale

Kansas Cores

PETROLEUM RESERVOIR ENGINEERING
WICHITA, KANSAS 67208

WELL Ladd #7 COUNTY Greenwood STATE Kansas
COMPANY Lee Phillips & Adair Oil DATE 7-11-65 FILE NO. S-613
FIELD Teichgraber TYPE CORES Diamond ANALYST IS

ANALYSIS DATA AND INTERPRETATIONS

SAMPLE No.	DEPTH	PERMEABILITY MILLIDARCYS		POROSITY %	SATURATION WATER % PORE SPACE	SATURATION OIL % PORE SPACE	PROBABLE PRODUCTION	REMARKS
		HORIZONTAL	VERTICAL					
1	2442 43	1.8	0.8	18.7	45.6	15.8	Oil	
2	2443 44	4.0	3.8	18.2	48.9	16.0	Oil	
3	2444 45	18.6	7.2	19.4	46.7	17.1	Oil	
4	2445 46	24.3	18.7	19.6	40.4	14.2	Oil	
5	2446 47	11.6	7.2	21.5	41.7	14.4	Oil	
6	2447 48	26.5	25.9	19.1	34.8	11.7	Oil	
7	2448 49	16.9	10.0	19.3	40.3	16.1	Oil	
8	2449 50	26.8	24.2	18.2	42.7	20.6	Oil	

PETROLEUM RESERVOIR ENGINEERING
WICHITA, KANSAS

Ladd #7
19-255-9E

DATA AVERAGES AND OIL RECOVERY FIGURES

DEPTH	2442'-2450'			
FEET OF PRODUCTION FORMATION OF SECTION ANALYZED	8			
AVERAGE PERMEABILITY IN MILLIDARCYS	16.3			
AVERAGE POROSITY, PER CENT	19.2			
AVERAGE TOTAL WATER % OF PORE SPACE	42.6			
AVERAGE RESIDUAL OIL % OF PORE SPACE	15.0			
AVERAGE CONNATE WATER CALCULATED % OF PORE SPACE	34.1			
ESTIMATED FORMATION VOLUME FACTOR - USED IN CALCULATING RECOVERABLE OIL	1.18			
PRODUCTIVE CAPACITY - PRODUCTIVE FEET X AVERAGE PERMEABILITY IN MILLIDARCYS	131			
RECOVERABLE OIL BY WATER DRIVE - BBLs. PER ACRE FOOT	597			
RECOVERABLE OIL BY GAS EXPANSION - BBLs. PER ACRE FOOT	348*			

*From original bottom hole pressure to zero

The analyses and interpretations are based on material brought to Kansas Cores by the client, and such data and interpretations are accessible only to that company which the client represents. Kansas Cores makes no warranty and makes no guarantee for the interpretations and opinions of the data. Our opinions of an analysis are placed at the discretion of the operator.