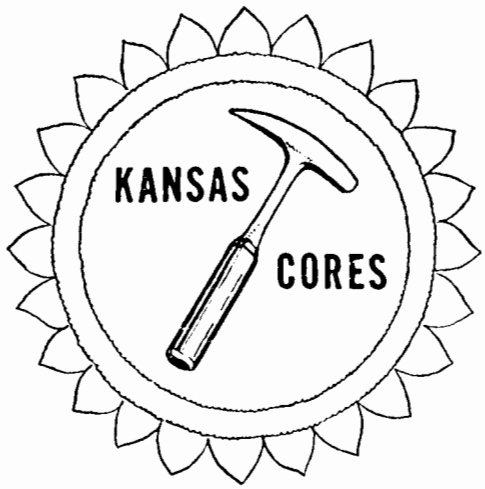
COMPANY LEE PHILLIPS OIL & E.H. ADAIR OIL

WELL LADD #8

LOCATION NW NW NE 19-25-9E

COUNTY GREENWOOD

STATE KANSAS



PETROLEUM RESERVOIR ENGINEERING

CORE ANALYSIS

Kansas Cores

PETROLEUM RESERVOIR ENGINEERING

WICHITA, KANSAS

COMPANY Lee Phillips Oil & E.H. Adair Oil DATE 11-10-65

WELL Ladd #8 ANALYST IS

FIELD

COUNTY Greenwood STATE Kansas

PERMEABILITY MILLIDARCYS O—O

200 150 100 50 0

POROSITY—% X—X

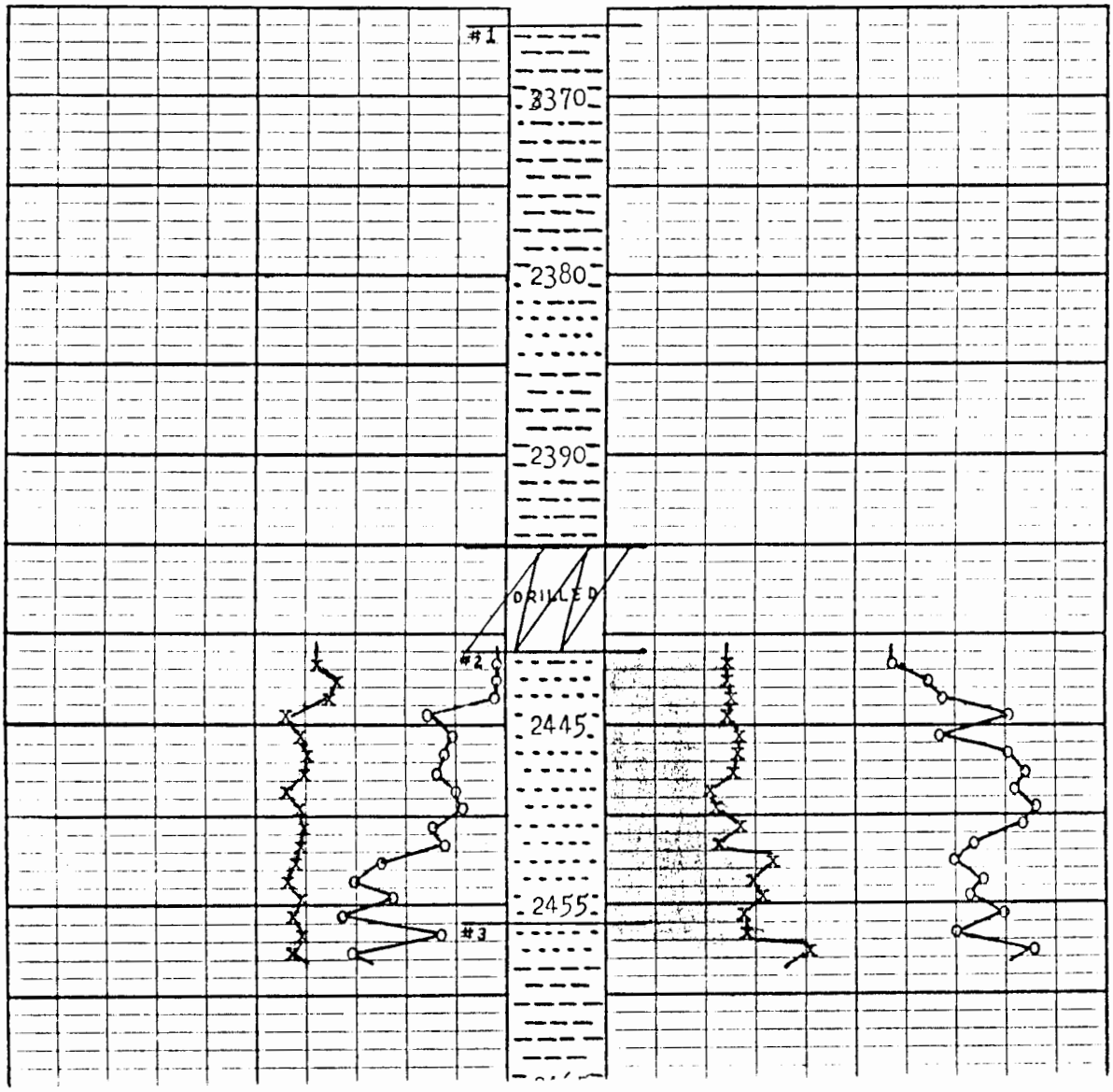
20 10 0

CONNATE WATER % SATURATION

0 70 60 50 40 O—O

OIL % PORE SATURATION X—X

0 10 20



Kansas Cores
PETROLEUM RESERVOIR ENGINEERING
CORE ANALYSIS
1026 NORTH LIGHTNER
WICHITA, KANSAS 67208

Nov. 10, 1965

Re: CORE ANALYSIS REPORT
Lee Phillips Oil & E.H. Adair Oil
Ladd #8
Greenwood County
Kansas

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

Gentlemen:

The cores from your well, Ladd #8, 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.

2441' to 2458' - Oil Productive

The samples taken from this section of Bartlesville consisted of a fine to medium grained light brown friable sand. Good oil saturation was measured throughout, along with low water percentages. The permeabilities were higher than average as well as the porosities. Higher than average reserves are calculated for this section. A good, commercial well 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 E.H. Adair Oil Co., Wichita, Ks.

Re: CORE DESCRIPTION
Lee Phillips & Adair Oil
Ladd #8
Greenwood County, Kansas

CORE #1	2366' to 2395'	Cut 29'	Rec. 29'

2366--70 Soft grey shale with few silty shale streaks: No show

2370--73 Soft grey dirty shaley carbonaceous sand with shale streaks: No sh

2373--76 Rotten grey-black shale

2376--78 Hard grey shale

2378--80 Hard greysshale with few streaks silty sand: No show

2380--82 Micaceous and carbonaceous silty sand with shale streaks: No sho

2382--85 Fine grained tight carbonaceous silty sand: Trace bleeding oil

2385--95 Grey shale with few thin silty sand laminations: No show

CORE #2	2441' to 2456'	Cut 15'	Rec. 15'

2441--42 Fine grained slightly silty greenish-brown friable sand with few thin grey shale streaks: Good stain and odor

2442--44 Fine grained greenish-brown friable sand: Good stain and odor

2444--52 Soft fine to medium grained light brown friable sand: Good stain and odor

2452--56 Soft medium grained friable brown sand: Good stain and odor

CORE #3	2456' to 2470'	Cut 14'	Rec. 13'

2456--58 Soft medium grained friable brown sand: Good stain and odor

2458--65 Hard black shale

2465--69 Hard grey-black shale with some grey silty shale toward bottom

2469--70 No recovery

Kansas Cores

PETROLEUM RESERVOIR ENGINEERING
WICHITA, KANSAS 67208

WELL Ladd #8 COUNTY Greenwood STATE Kansas

COMPANY Lee Phillips Oil & Adair Oil DATE 11-10-65 FILE No. S-629

FIELD 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	2441-42	4.6	1.8	19.1	51.6	11.9	Oil	
2	2442-43	4.3	3.7	17.2	47.8	12.3	Oil	
3	2443-44	5.7	3.9	17.9	46.2	12.4	Oil	
4	2444-45	40.5	31.6	22.0	39.6	12.2	Oil	
5	2445-46	26.9	24.9	20.6	47.3	13.2	Oil	
6	2446-47	32.2	26.8	20.1	39.9	13.6	Oil	
7	2447-48	35.8	31.2	20.1	38.7	12.5	Oil	
8	2448-49	25.8	18.7	22.6	39.3	10.1	Oil	
9	2449-50	22.5	18.9	20.8	37.6	11.0	Oil	
10	2450-51	39.3	30.6	20.7	38.5	13.5	Oil	
11	2451-52	33.7	22.6	20.8	43.7	11.2	Oil	
12	2452-53	64.6	59.4	21.0	45.1	16.4	Oil	
13	2453-54	77.1	58.5	21.7	42.6	14.5	Oil	
14	2454-55	57.8	51.3	20.4	43.5	15.7	Oil	
15	2455-56	82.2	32.0	21.0	40.0	14.1	Oil	
16	2456-57	32.6	18.9	20.6	45.0	14.3	Oil	
17	2457-58	77.2	53.7	21.2	37.0	20.6	Oil	

PETROLEUM RESERVOIR ENGINEERING
WICHITA, KANSAS

Ladd #8
19-25S-8E

DATA AVERAGES AND OIL RECOVERY FIGURES

DEPTH	2441'-2458'			
FEET OF PRODUCTION FORMATION OF SECTION ANALYZED	17			
AVERAGE PERMEABILITY IN MILLIDARCYS	37.2			
AVERAGE POROSITY, PER CENT	20.5			
AVERAGE TOTAL WATER % OF PORE SPACE	42.6			
AVERAGE RESIDUAL OIL % OF PORE SPACE	13.4			
AVERAGE CONNATE WATER CALCULATED % OF PORE SPACE	34.1			
ESTIMATED FORMATION VOLUME FACTOR — USED IN CALCULATING RECOVERABLE OIL	1.20			
PRODUCTIVE CAPACITY — PRODUCTIVE FEET X AVERAGE PERMEABILITY IN MILLIDARCYS	633			
RECOVERABLE OIL BY WATER DRIVE — BBLS. PER ACRE FOOT	660			
RECOVERABLE OIL BY GAS EXPANSION — BBLS. PER ACRE FOOT	396*			

*From original bottom hole pressure to zero