COMPANY LEE PHILLIPS OIL & ADAIR OIL

WELL LADD #6

LOCATION SW 1/4 NW 1/4 19-25-9E

COUNTY GREENWOOD

STATE KANSAS

KANSAS CORES

PETROLEUM RESERVOIR ENGINEERING

CORE ANALYSIS

Kansas Cores

PETROLEUM RESERVOIR ENGINEERING

WICHITA, KANSAS

COMPANY Lee Phillips & Adair Oil DATE 7-4-65

WELL Ladd #6 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 or analysis are placed at the discretion of the operator.

PERMEABILITY MILLIDARCYS O—O

80 60 40 20 0

POROSITY - % X—X

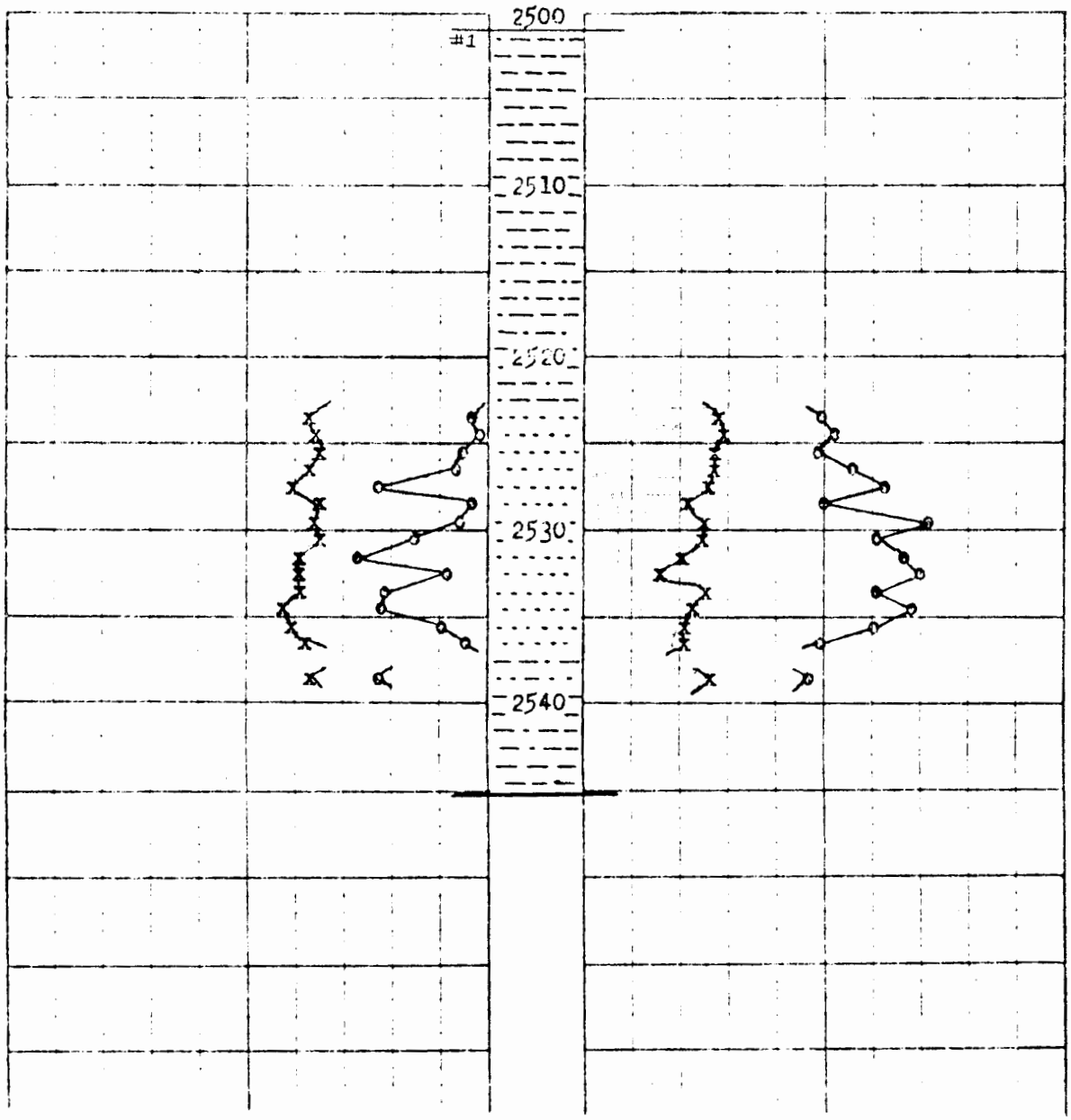
20 10 0

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

July 4, 1965

Re: CORE ANALYSIS REPORT
Lee Phillips & Adair Oil
Ladd #6
Greenwood County
Kansas

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

Gentlemen:

The cores from your well, Ladd #6, 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 not be found in this report due to the transitional nature of the sand.

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

2523' to 2531' - Oil Productive

This section of the Bartlesville formation was composed of a fine grained slightly in part, light green sand. Good porosities were measured, but very low and streaked permeabilities were encountered. The higher waters reflect the silty nature of the sand, and the oil percentages are sufficient for oil production in the top 5', dropping slightly in the bottom 3' to indicate a transition zone. The water contact was found at 2531' when the oil percentages dropped below the minimum needed for oil production.

While this zone is considered to be oil productive, considerable water will be produced from below.

Yours very truly,

KANSAS CORES

Ivan L. Stuber

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

Re: CORE DESCRIPTION
Lee Phillips & Adair Oil
Ladd #6
Greenwood County, Kansas

CORE #1

2501' to 2545' Cut 44' Rec. 44'

1' Hard grey-black shale with 4" hard grey slightly friable sand top: Fair stain and odor in sand

11' Hard grey to black shale

10' Hard silty sand and silty shale: No show

4' Soft very fine grained light green slightly silty sand: Good stain and odor

1' Soft greenish-brown fine grained slightly friable sand: Good stain and odor, bleeding oil

9' Soft fine grained light green slightly brownish slightly friable sand: Good stain and odor, bleeding oil

1' Hard grey shale with trace sand: Sand bleedding oil

1' Soft greenish-brown friable sand with some grey shale streaks: Good stain and odor, bleeding oil

6' Hard grey to black shale with few thin streaks silty grey sand: Some bleeding oil from streaks of sand

Kansas Cores

PETROLEUM RESERVOIR ENGINEERING
WICHITA, KANSAS 67208

WELL Ladd #6 COUNTY Greenwood STATE Kansas

COMPANY Lee Phillips & Adair Oil DATE 7-4-65 FILE No. S-611

FIELD Tiechgrabar TYPE CORES Diamond ANALYST IS

ANALYSIS DATA AND INTERPRETATIONS

SAMPLE No.	DEPTH	PERMEABILITY MILLIDARCYS HORIZONTAL	PERMEABILITY MILLIDARCYS VERTICAL	POROSITY %	SATURATION WATER % PORE SPACE	SATURATION OIL % PORE SPACE	PROBABLE PRODUCTION	REMARKS
1	2523 24	2.1	1.8	19.2	55.9	14.1	Oil	
2	2524 25	1.0	0.6	18.5	54.7	14.6	Oil	
3	2525 26	6.8	6.2	18.3	56.0	13.9	Oil	
4	2526 27	7.0	5.0	16.9	52.7	14.1	Oil	
5	2527 28	23.1	18.6	20.3	49.3	12.9	Oil	
6	2528 29	3.0	1.8	17.7	55.2	10.3	Oil & Water	
7	2529 30	7.6	3.7	18.2	44.7	12.2	Oil & Water	
8	2530 31	17.0	14.8	18.0	49.6	12.1	Oil & Water	
9	2531 32	28.1	18.9	19.5	47.2	10.3	Water	
10	2532 33	8.6	4.8	19.7	45.4	7.6	Water	
11	2533 34	21.6	15.8	19.7	49.6	13.3	Water	
12	2534 35	22.2	21.0	21.2	41.1	11.4	Water	
13	2535 36	9.6	8.1	20.6	49.8	10.6	Water	
14	2536 37	6.0	3.2	19.0	55.7	10.5	Water	
15	2537 38	21.6	16.7	16.9	56.2	13.4	Water	