

Kansas Cores

PETROLEUM RESERVOIR ENGINEERING WICHITA, KANSAS

COMPANY A.D. Allison & Company DATE 11-2-58
WELL Turner #4 ANALYST IS
FIELD _____
COUNTY Butler 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 $\bigcirc$ — $\bigcirc$

400 300 200 100 0

POROSITY—% $\times$ — $\times$

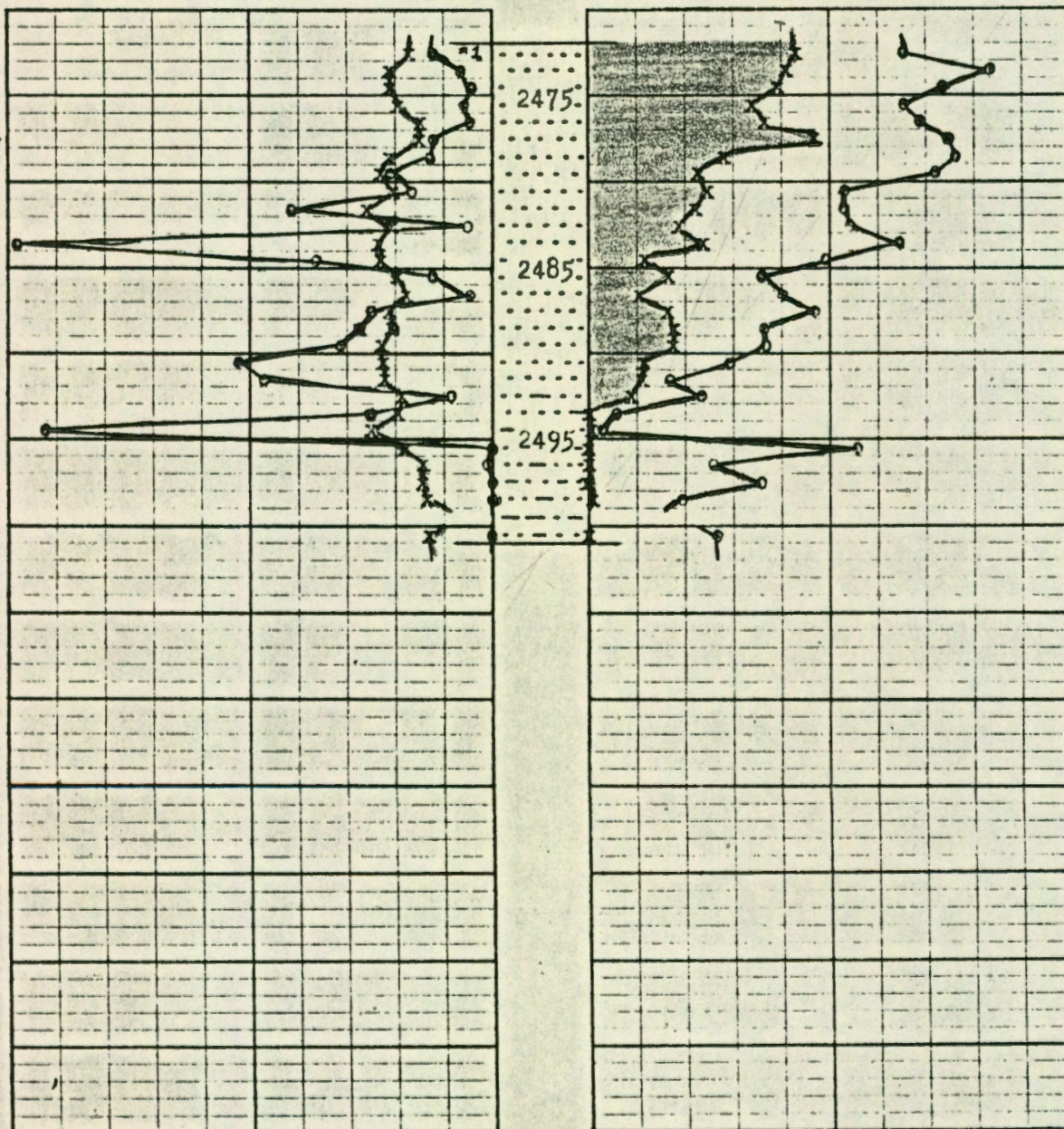
20 10 0

CONNATE WATER % SATURATION

0 90 80 70 60 $\bigcirc$ — $\bigcirc$

OIL % PORE SATURATION $\times$ — $\times$

0 10 20



Kansas Cores

PETROLEUM RESERVOIR ENGINEERING

CORE ANALYSIS

Nov. 2, 1958

1026 NORTH LIGHTNER
WICHITA, KANSAS

Re: CORE ANALYSIS REPORT
A.D. Allison & Co.
Turner #4 ✓
Butler County
Kansas

A.D. Allison & Co.
3212 E. Kellogg
Wichita, Kansas

Gentlemen:

The cores from your well, Turner #4, Butler 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 are not included in this report because of the non-productive nature of the zone analysed.

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

2472' to 2501' - Water Productive

A soft brown friable slightly shaley sand was encountered in the Simpson formation at this depth. Good oil staining was found in the upper 6' of sand, decreasing downward to 2494', where no oil was measured. The permeabilities were good, also increasing toward the bottom as the oil percentages decreased. Average Simpson porosities were measured throughout the sand. The high water percentages, along with other considerations, indicate this entire zone to be below the water contact; therefore no oil can be produced from this section.

Yours very truly,

KANSAS CORES

Ivan L. Stuber
Ivan L. Stuber

Attachments

cc: 4 copies to A.D. Allison & Co., Wichita, Kansas
1 copy to KANSAS CORES, Wichita, Kansas

Re: CORE DESCRIPTION
A.D. Allison & Co.
Turner #4
Butler County
Kansas

CORE #1

2472' to 2501'

Cut 29'

Rec. 29'

- 1' Very fine grained soft brown friable slightly quartzitic sand with trace of pyrite: Good stain and odor
- 2' Soft dark grey fine grained friable sand: Good stain and odor
- 1' Soft brown fine grained sand with streaks of hard white quartzitic sand: Good slightly streaked stain
- 1' Hard brown slightly friable quartzitic sand: Good stain and odor
- 5' Soft brown fine grained slightly quartzitic sand: Good stain and odor
- 2' Very friable fine grained light brown sand: Fair stain and odor
- 9' Fine grained light brown friable sand: Good stain and odor
- 6' Light green soft friable slightly shaley sand: No stain, sour odor
- 1' Hard very slightly sandy green shale
- 1' Shaley green sand: No stain, sour odor

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PETROLEUM RESERVOIR ENGINEERING
WICHITA, KANSAS

WELL Turner #4 COUNTY Butler STATE Kansas
COMPANY A.D. Allisen & Company DATE 11-2-58 FILE No. S-374
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	2472	61.6	61.6	8.9	67.6	21.0	Water	
	73							
2	2473	38.6	18.5	10.7	58.6	20.9	Water	
	74							
3	2474	26.5	17.2	10.2	63.6	19.8	Water	
	75							
4	2475	32.2	24.3	9.7	67.0	16.5	Water	
	76							
5	2476	24.8	12.8	7.6	65.3	18.7	Water	
	77							
6	2477	75.0	52.6	7.9	62.7	23.6	Water	
	78							
7	2478	65.4	34.6	11.0	62.4	14.1	Water	
	79							
8	2479	135	100	11.4	64.0	11.6	Water	
	80							
9	2480	86.2	51.5	10.0	73.5	11.4	Water	
	81							
10	2481	210	200	13.1	73.6	11.1	Water	
	82							
11	2482	28.3	18.6	10.2	73.3	9.5	Water	
	83							
12	2483	550	400	12.0	67.1	11.8	Water	
	84							
13	2484	185	120	11.1	75.6	5.9	Water	
	85							
14	2485	62.7	42.6	9.9	82.3	7.7	Water	
	86							
15	2486	22.1	18.7	8.9	80.2	5.2	Water	
	87							
16	2487	130	120	10.6	76.5	7.8	Water	
	88							
17	2488	140	120	10.2	82.3	9.0	Water	
	89							
18	2489	160	100	11.0	81.4	9.3	Water	
	90							
19	2490	260	210	11.0	85.2	5.5	Water	
	91							
20	2491	230	220	10.9	92.3	5.6	Water	
	92							

21 25681
122.3

21 2155
10.3

21 25430
73.5

21 2500
12.5

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WICHITA, KANSAS

WELL _____ COUNTY _____ STATE _____
COMPANY _____ DATE _____ FILE No. _____
FIELD _____ TYPE CORES _____ ANALYST _____

ANALYSIS DATA AND INTERPRETATIONS

SAMPLE No.	DEPTH	PERMEABILITY MILLIDARCYS		POROSITY %	SATURATION WATER % PORE SPACE	SATURATION OIL % PORE SPACE	PROBABLE PRODUCTION	REMARKS
		HORIZONTAL	VERTICAL					
21	2492	44.7	22.6	9.2	88.5	4.9	Water	
	93							
22	2493	125	86.0	9.6	97.4	0.2	Water	
	94							
23	2494	460	450	12.1	99.0	0.1	Water	
	95							
24	2495	2.8	0.8	8.8	73.6	0.0	Water	
	96							
25	2496	1.2	0.0	7.1	87.4	0.0	Water	
	97							
26	2497	0.0	0.0	7.6	81.6	0.0	Water	
	98							
27	2498	0.0	0.0	7.1	90.4	0.2	Water	
	99							
28	2500	0.0	0.0	6.8	86.9	0.0	Water	
	01							