Kansas Cores

PETROLEUM RESERVOIR ENGINEERING

WICHITA, KANSAS

COMPANY Maurice L. Brown DATE 10-31-74

WELL Maune #A-7 C SW NE 31-21-33W ANALYST IS

FIELD

COUNTY Finney STATE Kansas

PERMEABILITY MILLIDARCYS

1600 800 400 200

POROSITY % X—X

DRILLING TIME 20 10

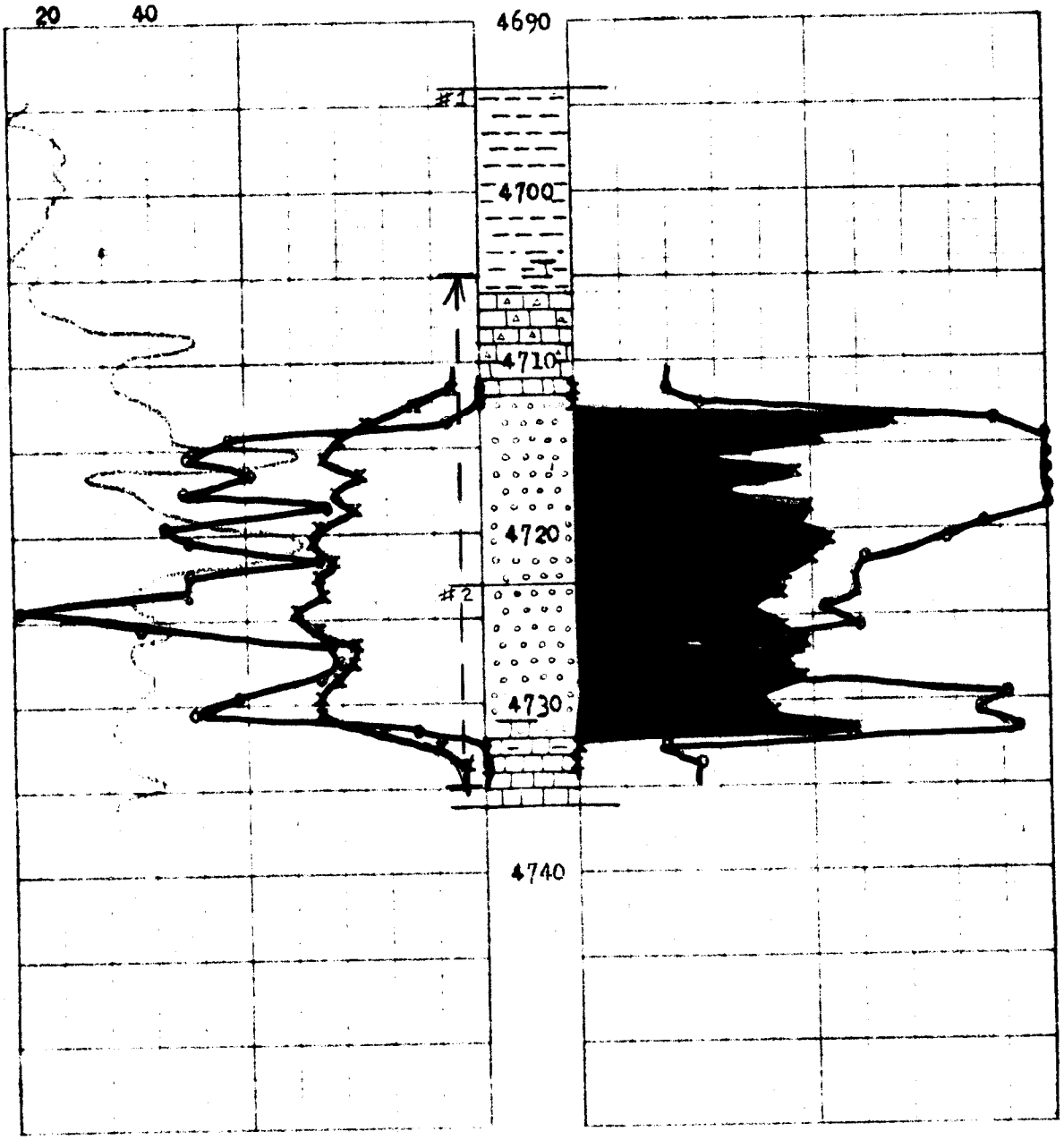
MIN/FT

CONNATE WATER % SATURATION

70 60 50 40

OIL % PORE SATURATION X—X

10 20 30



Kansas Cores

PETROLEUM RESERVOIR ENGINEERING

CORE ANALYSIS

1025 NORTH LIGHTNER
WICHITA KANSAS 67208

Oct. 31, 1974

Re: CORE ANALYSIS REPORT
Maurice L. Brown
Maune #A-7
Finney County
Kansas

Maurice L. Brown
Vickers-KSB Bldg.
Wichita, Kansas

Gentlemen:

The cores from your well, Maune #A-7, Finney County, Kansas have been analyzed for permeability, porosity, and residual saturation of oil and water. The data will be found tabulated on the following pages and indicated on the core graph. 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 analyzed.

4713' to 4732' - Oil Productive

This zone in the Mississippian formation was composed of varying sizes of oolites throughout, with good porosities and very good permeabilities. Extensive vertical fracturing was noted from 4721' to the base of the section. Good oil percentages were measured, and the waters are in line for water free production.
A very good, long lasting commercial well can be expected from this section.

Yours very truly,

KANSAS CORES

Ivan L. Stubor

Attachments:
cc: 6 copies to Maurice L. Brown, Wichita, Ks.

Re: CORE DESCRIPTION
Maurice L. Brown
Maune #A-7
Finney Co., Kans.

CORE #1 4694' to 4723' Cut 29' Rec. 29'

4694--4703 Hard dark green to black shale

4703--04 Same shale with few thin light grey silt laminations: No show

4704--05 Same as above with traces gry limestone laminations: No show

4705--06 Soft rotten carbonaceous black shale

4706--10 Hard dense to fine crystalline light grey limestone with numerous light grey to white slightly weathered to fresh chert nodules: No show

4710--12½ Hard dense medium grey limestone: No show

4712½--14 Soft dark brown very oolitic, fine to medium, limestone with few dense dark grey limestone inclusions: Good stain and odor, bleeding oil

4714--16 Soft dark brown oolitic limestone with some inclusions and vertically bedded clear quartz veins, some hard grey limestone streaks bottom: Good slightly streaked stain, bleeding oil, streaked

4716--18 Medium to large oolitic dark brown limestone, traces fine quartz grains, scattered: Good stain and odor, bleeding oil

4818--23 Soft brown oolitic limestone, some badly vertically fractured bottom 3': Good stain and odor, bleeding some oil

CORE #2 4723--36 Cut 13' Rec. 13'

4723--25 Soft oolitic dark brown limestone with some vertically bedded clear stylolitic looking quartz: Good stain and odor, bleeding some oil, VF

4725--31 Soft medium brown oolitic limestone, vertically fractured throughout: Good stain and odor, bleeding some oil

4731--32 Same as above with some streaks & inclusions of light grey-brown medium crystalline barren limestone: Good streaked stain, bleeding oil

4732--33 Soft medium grey dense limestone & slightly shaley limestone with few thin laminations of dark grey shale: No show

4733--36 Very hard dense to traces fine crystalline medium tan limestone: No show

Kansas Cores

PETROLEUM RESERVOIR ENGINEERING
WICHITA, KANSAS 67208

Maune #A-7 — COUNTY: Finney — STATE: Kansas

Maurice L. Brown — DATE: 10-31-74 — FILE NO: S-1226

TYPE CORE: Diamond — ANALYST: IS

ANALYSIS DATA AND INTERPRETATIONS

		PERMEABILITY MAXIMUM	PERMEABILITY 90° TO MAX	POROSITY %	SATURATION WATER % PORE SPACE	SATURATION OIL % PORE SPACE	RECOVERABLE PRODUCTION	DENSITY	REMARKS
1	4711	0.0	0.0	3.6	70.6	0.0	No Perm	2.82	
2	12 4712	0.0	0.0	7.3	67.0	0.0	No Perm	2.65	
3	13 4713	75.2	90.5	12.8	35.9	33.9	Oil	2.55	
4	14 4714	620	870	15.1	22.6	25.6	Oil	2.44	
5	15 4715	925	970	17.2	23.0	14.9	Oil	2.33	
6	16 4716	590	1340	13.4	28.0	23.9	Oil	2.46	
7	17 4717	955	685	15.4	22.4	16.0	Oil	2.46	
8	18 4718	320	240	14.2	17.5	24.5	Oil	2.49	
9	19 4719	1100	1070	17.3	37.4	24.0	Oil	2.31	
10	20 4720	840	1115	17.9	41.0	25.9	Oil	2.29	
11	21 4721	315	130	16.1	49.9	25.0	Oil	2.36	
12	22 4722	850	475	17.8	50.2	21.9	Oil	2.29	
13	23 4723	650	970	16.8	50.4	21.3	Oil	2.35	
14	24 4724	2400	2900	19.9	54.3	19.9	Oil	2.21	
15	25 4725	1300	1620	17.5	50.2	21.3	Oil	2.25	
16	26 4726	310	340	14.1	71.6	23.9	Oil	2.40	
17	27 4727	300	215	14.9	62.0	21.7	Oil	2.31	
18	28 4728	340	150	15.4	57.1	23.4	Oil	2.40	
19	29 4729	625	750	17.3	34.5	19.4	Oil	2.39	
20	30 4730	850	870	17.3	38.5	20.9	Oil	2.34	
21	31 4731	145	32.1	10.1	33.9	29.1	Oil	2.42	
22	32 4732	0.0	0.0	4.9	71.1	0.0	No Perm	2.79	
23	33 4733	0.0	0.0	2.4	66.6	0.0	No Perm	2.87	
	34								

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WICHITA KANSAS

DATA AVERAGES AND OIL RECOVERY FIGURES

[illegible]	4713'-4732'
[illegible] PRODUCTION FORMA[illegible] [illegible] SECTION ANALYZED	19
[illegible]RAGE PERMEABILITY IN [illegible] MILLIDARCYS	722
[illegible]ERAGE POROSITY, PER CENT	15.8
[illegible]RAGE TOTAL WATER % OF [illegible]RE SPACE	40.8
[illegible]ERAGE RESIDUAL OIL % OF [illegible]RE SPACE	23.0
[illegible]RAGE CONNATE WATER CAL-[illegible]TED % OF PORE SPACE	32.6
[illegible]MATED FORMATION VOLUME [illegible]R USED IN CALCULATING [illegible]ERABLE OIL	1.00
[illegible]IVE CAPACITY [illegible]IVE FEET X AVERAGE [illegible]APACITY IN MILLIDARCYS	13,710
[illegible]ERABLE OIL BY WATER [illegible] BBLS PER ACRE FOOT	310 *
[illegible]ERABLE OIL BY GAS EX-[illegible]N BBLS PER ACRE FOOT	172 **

* 45% of the oil in place

** 25% of the oil in place

9. M.L. Brown C SW NE 31-21S-33W

#7 A. Maune

Mississippian 4705-4735'

Core Available In: 6 Three-Foot Boxes Condition: Whole Core

Coverage: Incomplete

Available Footage (By Box):

4705-09 Incomplete

4709-10 Missing

4710-13

4713-23 Incomplete

4723-27 Incomplete

4727-28 Missing

4728-31

4731-35 Incomplete

NOTES: 23 samples (for Ø, k, Srw, Sro) from 4711'-4734' probably account for part of missing interval.