

Kansas Cores

PETROLEUM RESERVOIR ENGINEERING WICHITA, KANSAS

COMPANY Maurice L. Brown

DATE 11-30-74

WELL Maune #8 CSENE 31-21-33 W

ANALYST IS

FIELD _____

COUNTY Finney 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 $\circ \text{---} \circ$

CONNATE WATER % SATURATION $\circ \text{---} \circ$

300 200 100 0

0 70 60 50 40

POROSITY - % X---X

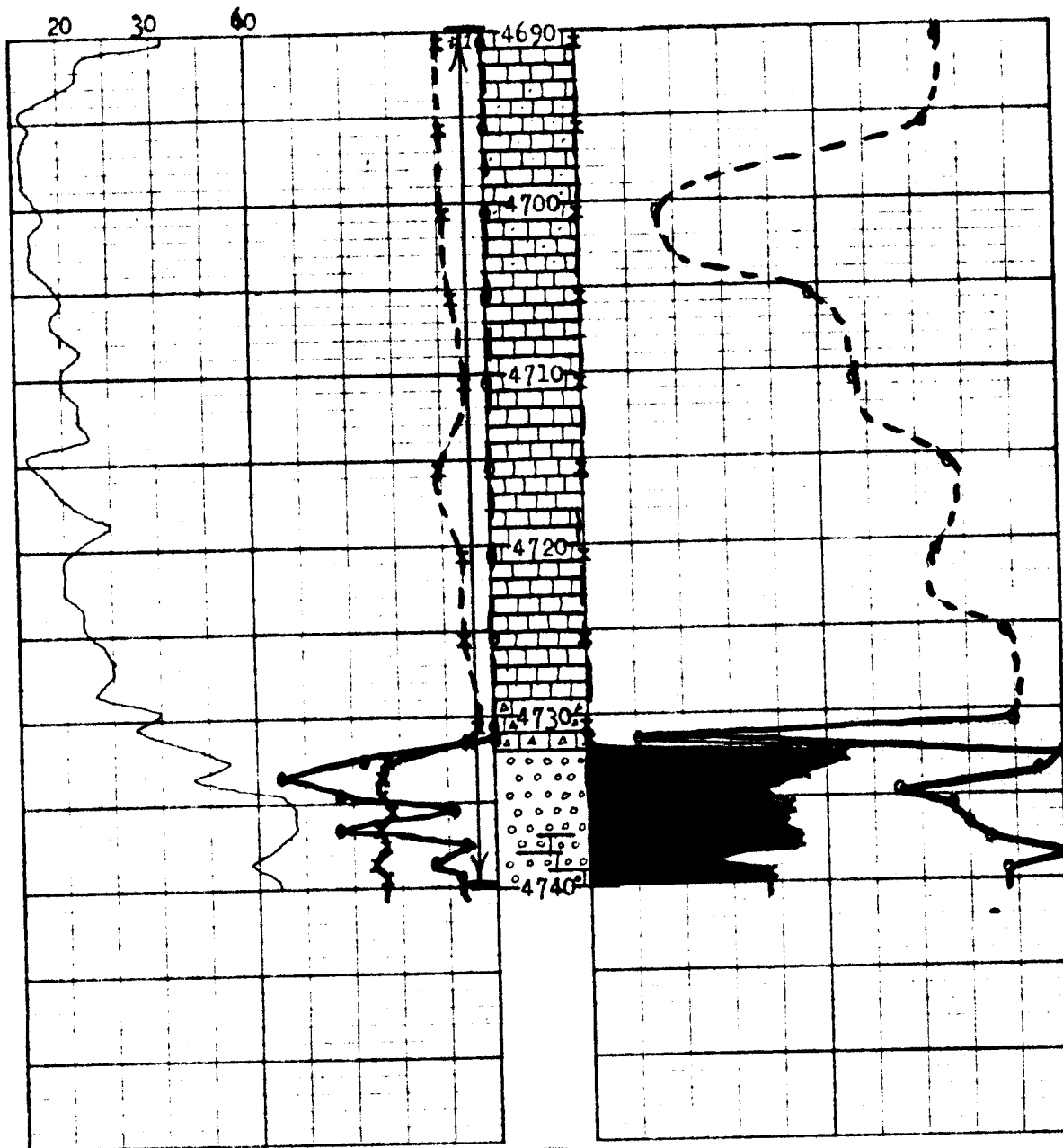
OIL % PORE SATURATION X---X

CORING TIME

20 10 0 0

10 20 30

MIN/FT



Kansas Cores

PETROLEUM RESERVOIR ENGINEERING

CORE ANALYSIS

Nov. 30, 1974

1026 NORTH LIGHTNER
WICHITA, KANSAS 67208

Re: CORE ANALYSIS REPORT

Maurice L. Brown

Maune #8

Finney County

Kansas

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

Gentlemen:

The cores from your well, Maune #8, Finney 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.

4732' to 4740' - Oil Productive

This section in the Mississippian formation was composed for the most part of a very finely oolitic limestone, well cemented, with evidence of vertical fracturing throughout. An increase of grey limestone was noted at the bottom. Good oil saturation was measured, and the water percentages are well in line for water free production. Fair permeabilities and slightly lower than average porosities were measured. A commercial well can be expected from this zone, with some probable pay below, as coring stopped in the producing zone.

Yours very truly,

KANSAS CORES

Ivan L. Stuber
Ivan L. Stuber

Attachments

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

Re: CORE DESCRIPTION
Maurice L. Brown
Maune ⁴⁶
Finney County, Ks.

<u>CORE #1</u>	<u>4690' to 4740'</u>	<u>Cut 50'</u>	<u>Rec. 50'</u>
4690--94	Hard very fine crystalline to dense light grey-tan limestone with thin laminations of fine crystalline brown limestone, diagonally bedded: No show		
4694--4704	Softer light grey very fine crystalline slightly sandy limestone: No show, few streaks of laminations as above		
4704--08	Hard very fine crystalline light grey-tan limestone, few laminations of diagonally bedded darker grey-brown limestone: No show		
4708--14	Dark tan-brown very fine crystalline limestone with few laminations as above: No show		
4714--25	Light grey hard very fine crystalline to some dense limestone, few laminations as above: No show		
4725--29	Hard dark grey dense to some very fine crystalline limestone, slightly fossiliferous in part: No show		
4729--32	Limestone as above with some dark brown & light grey limestone streaks and inclusions, numerous nodules and streaks of fresh white and dark blue-grey to some black chert, some very hard & sharp: No show		
4732--35	Soft very finely oolitic dark brown firmly cemented limestone with few very small calcite specks throughout: Good stain & odor		
4735--36	Finer oolitic limestone as above with few inclusions & streaks of hard light grey-tan barren limestone: Good stain & odor		
4736--37	Dark brown very finely oolitic firmly cemented limestone, few specks of calcite: Good stain and odor		
4737--40	Very finely oolitic limestone with some streaks and inclusions of light grey dense to fine crystalline limestone: Good stain & odor The entire zone from 4733' downward was vertically fractured, with fracture more open going downward, fracture having some crystals of calcite within, and evidence of oil having been in fracture		

Kansas Cores

PETROLEUM RESERVOIR ENGINEERING
WICHITA, KANSAS 67208

WELL **Maune #8** COUNTY **Finney** STATE **Kansas**
COMPANY **Maurice L. Brown** DATE **11-30-74** FILE NO **S-1234**
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	4690 91	0.0	0.0	4.6	41.7	0.0	No Perm	
2	4695 96	0.0	0.0	4.6	43.9	0.0	No Perm	
3	4699 4700	0.0	0.0	4.5	72.0	0.0	No Perm	
4	4705 06	0.0	0.0	4.0	56.0	0.0	No Perm	
5	4710 11	0.0	0.0	2.7	51.2	0.0	No Perm	
6	4715 16	0.0	0.0	5.3	41.7	0.0	No Perm	
7	4720 21	0.0	0.0	3.5	43.8	0.0	No Perm	
8	4725 26	0.0	0.0	3.4	35.6	0.0	No Perm	
9	4730 31	0.0	0.0	2.1	35.2	0.0	No Perm	
10	4731 32	0.0	0.0	3.5	75.1	0.0	No Perm	
11	4732 33	140	140	11.5	28.9	26.6	Oil	
12	4733 34	230	280	11.6	33.0	22.0	Oil	Vertically fractured
13	4734 35	160	300	11.8	47.5	18.4	Oil	Vertically fractured
14	4735 36	46.1	38.7	11.0	41.7	20.9	Oil	Vertically fractured
15	4736 37	160	150	12.2	40.1	20.1	Oil	Vertically fractured
16	4737 38	41.6	27.9	11.7	38.7	21.5	Oil	Vertically fractured
17	4738 39	62.5	11.7	12.8	26.8	13.4	Oil	Vertically fractured
18	4739 40	38.7	21.5	12.2	36.1	19.1	Oil	Vertically fractured

Kansas Cores

PETROLEUM RESERVOIR ENGINEERING
WICHITA, KANSAS

DATA AVERAGES AND OIL RECOVERY FIGURES

DEPTH	4732'-4740'			
FEET OF PRODUCTION FORMATION OF SECTION ANALYZED	8			
AVERAGE PERMEABILITY IN MILLIDARCYS	110			
AVERAGE POROSITY, PER CENT	11.9			
AVERAGE TOTAL WATER % OF PORE SPACE	36.6			
AVERAGE RESIDUAL OIL % OF PORE SPACE	20.3			
AVERAGE CONNATE WATER CALCULATED % OF PORE SPACE	29.3			
ESTIMATED FORMATION VOLUME FACTOR USED IN CALCULATING RECOVERABLE OIL	1.20			
PRODUCTIVE CAPACITY — PRODUCTIVE FEET X AVERAGE PERMEABILITY IN MILLIDARCYS	879			
RECOVERABLE OIL BY WATER DRIVE - BBLs. PER ACRE FOOT	245 *			
RECOVERABLE OIL BY GAS EXPANSION - BBLs. PER ACRE FOOT	136 **			

* 45% of the oil in place

** 25% of the oil in place

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.

10. M.L. Brown

C SE NE 31-21S-33W

#8 A. Maune

Mississippian 4690-4740

Core Available In: 16 Three-Foot Boxes Condition: Whole Core

Coverage: Complete

NOTES: Minor amount of core may be missing due to 18 samples
 (for Ø, k, srw, sro) taken from 4690'-4740'.

DATE
STRATIGRAPHIC UNIT
MEASURED BY

FOSSILS

[illegible]

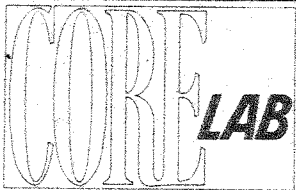
DATE 10-15
STRATIGRAPHIC UNIT _____
MEASURED BY Handford

[illegible]

DATE 10-15
STRATIGRAPHIC UNIT _____
MEASURED BY Sanford

SEDIMENTARY TEXT & STRUCT			INTERVAL	BASIC ROCK TYPE	COLOR	TEXTURAL MATERIAL MATURITY	DIO BIOTURE	DIRECTIONAL FEATURES	CARRONATE COMPONENTS	FOSSILS				
CARBONATES GEMPK WKR MUDST CLASTICS										in situ	angle	70°	tang.	Q
GRAV 64 4	SAND VCC M FVF	SILT & CLAY												
			978		↑									
			10											
			12											
			14		↑									
			16											
			18											
			20											
			22											
			24											
			26											
			28											
			30											
			32											
			34											
			36											
			38											
			40											
			42											
			44											
			46											
			48											
			50											
			52											
			54											
			56											
			58											
			60											
			62											
			64											
			66											
			68											
			70											
			72											
			74											
			76											
			78											
			80											
			82											
			84											
			86											
			88											
			90											
			92											
			94											
			96											
			98											
			100											
			102											
			104											
			106											
			108											
			110											
			112											
			114											
			116											
			118											
			120											
			122											
			124											
			126											
			128											
			130											
			132											
			134											
			136											
			138											
			140											
			142											
			144											
			146											
			148											
			150											
			152											
			154											
			156											
			158											
			160											
			162											
			164											
			166											
			168											
			170											
			172											
			174											
			176											
			178											
			180											
			182											
			184											
			186											
			188											
			190											
			192											
			194											
			196											
			198											
			200											
			202											
			204											
			206											
			208											
			210											
			212											
			214											
			216											
			218											
			220											
			222											
			224											
			226											
			228											
			230											
			232											
			234											
			236											
			238											
			240											
			242											
			244											
			246											
			248											
			250											
			252											
			254											
			256											
			258											
			260											
			262											
			264											
			266											
			268											
			270											
			272											
			274											
			276											
			278											
			280											
			282											
			284											
			286											
			288											
			290											
			292											
			294											
			296											
			298											
			300											
			302											
			304											
			306											

CORE LABORATORIES, INC.



Petroleum Reservoir Engineering

COMPANY	AMOCO PRODUCTION COMPANY	FILE NO.	RP-2-6923
WELL	MAUNE NO. 8	DATE	8-2-82
FIELD		FORMATION	
COUNTY		STATE	
LOCATION		DRLG. FLD.	
		ELEV.	
		CORES	

CORRELATION COREGRAPH

These analyses, opinions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc., (all errors or omissions excepted); but Core Laboratories, Inc., and its officers and employees, assume no responsibility and make no warranty or representations as to the productivity, proper operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

VERTICAL SCALE: 5" = 100'

Total Water

PERCENT PORE SPACE

100 80 60 40 20 0

Gamma Ray

RADIATION INCREASE

Permeability

MILLIDARCIES

Porosity

PERCENT

Oil Saturation

PERCENT PORE SPACE

