Kansas Cores
PETROLEUM RESERVOIR ENGINEERING
CORE ANALYSIS

1026 NORTH LIGHTNER
WICHITA, KANSAS 67206

Bates Unit #3-3

Dec. 13, 1966

Re: CORE ANALYSIS REPORT
Beardmore Drilling Co.
Inman #3
Sumner County
Kansas

Beardmore Drilling Co.
One-Twenty Building
Wichita, Kansas

Gentlemen:

The cores from your well, Inman #3, Sumner County, Kansas have been analysed for permeability, peresity, 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.

3727' to 3741' - Oil Productive

The Mississippian encountered at this depth was composed of a soft, light grey-brown fossiliferous and dolomitic limestone, grading downward into a limey dolomite for the bottom 4'. The water and oil percentages are in line with the rest of the field, the oils indicating the usual higher than average gas-oil ratio. The permeabilities and peresities were average for this formation. A good, commercial well can be expected from this zone.

Yours very truly,

KANSAS CORES

Ivan L. Stuber

Ivan L. Stuber

Attachments
cc: 6 copies to Beardmore Drlg. Co., Wichita, Ks.

Re: CORE DESCRIPTION
Beardmore Drlg. Co.
Inman #3
Sumner County
Kansas

CORE #1 3727' to 3741' Cut 14' Rec. 14'

3727--29 Soft light grey-brown very finely crystalline to slightly chalky in part and fossiliferous dolomitic limestone: Good stain and oder

3729--34 Soft light grey-brown finely crystalline and fossiliferous dolomitic limestone: Good stain and oder

3734--37 Same as above except more dolomitic, few thin streaks hard blue-grey crystalline limestone bottom: Good stain and oder

3737--41 Hard dark and dirty grey limey and fossiliferous dolomite: Good stain and oder

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WICHITA, KANSAS 67208

WELL Inman #3 COUNTY Sumner STATE Kansas

COMPANY Beardmore Drilling DATE 12-13-66 FILE No. S-706

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	3727-28	8.3	4.6	12.7	47.4	16.0	Oil	
2	3728-29	26.8	23.7	15.9	37.7	11.6	Oil	
3	3729-30	3.2	2.0	11.3	38.9	14.4	Oil	
4	3730-31	10.9	4.3	13.6	37.6	9.1	Oil	
5	3731-32	7.1	5.2	13.2	38.9	12.4	Oil	
6	3732-33	9.8	7.2	14.9	39.1	12.9	Oil	
7	3733-34	7.3	5.6	12.3	50.7	10.3	Oil	
8	3734-35	27.8	24.7	16.2	34.7	12.5	Oil	
9	3735-36	21.2	8.1	14.0	37.1	11.9	Oil	
10	3736-37	22.1	12.6	17.3	39.2	12.0	Oil	
11	3737-38	27.3	22.0	15.1	33.3	13.5	Oil	
12	3738-39	23.0	14.7	12.9	33.1	14.2	Oil	
13	3739-40	35.6	26.8	17.0	29.6	9.6	Oil	
14	3740-41	33.1	21.5	16.0	38.2	12.4	Oil	

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WICHITA, KANSAS

DATA AVERAGES AND OIL RECOVERY FIGURES

DEPTH	3727'-3741'			
FEET OF PRODUCTION FORMATION OF SECTION ANALYZED	14			
AVERAGE PERMEABILITY IN MILLIDARCYS	18.8			
AVERAGE POROSITY, PER CENT	14.5			
AVERAGE TOTAL WATER % OF PORE SPACE	35.4			
AVERAGE RESIDUAL OIL % OF PORE SPACE	12.3			
AVERAGE CONNATE WATER CALCULATED % OF PORE SPACE	28.3			
ESTIMATED FORMATION VOLUME FACTOR — USED IN CALCULATING RECOVERABLE OIL	1.24			
PRODUCTIVE CAPACITY — PRODUCTIVE FEET X AVERAGE PERMEABILITY IN MILLIDARCYS	264			
RECOVERABLE OIL BY WATER DRIVE — BBLS. PER ACRE FOOT	512			
RECOVERABLE OIL BY GAS EXPANSION — BBLS. PER ACRE FOOT	307*			

*From original bottom hole pressure to zero

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.

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PETROLEUM RESERVOIR ENGINEERING

WICHITA, KANSAS

COMPANY Beardmore Drilling DATE 12-13066

WELL Inman #3 ANALYST IS

FIELD

COUNTY Sumner STATE Kansas

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PERMEABILITY MILLIDARCYS O—O

80 60 40 20 0

POROSITY—% X—X

20 10 0

CONNATE WATER % SATURATION

0 70 60 50 O—O 40

OIL % PORE SATURATION X—X

0 10 20

