

CORE ANALYSIS REPORT  
FOR  
STELBAR OIL CORPORATION  
MESSNER NO. 1 WELL  
COWLEY COUNTY, KANSAS

CORE LABORATORIES, INC.  
*Petroleum Reservoir Engineering*  
DALLAS, TEXAS

SEPTEMBER 22, 1976

REPLY TO  
8 N. W. 42ND ST.  
OKLAHOMA CITY, OKLA.  
73118

STELBAR OIL CORPORATION  
SUITE 950  
200 WEST DOUGLAS  
WICHITA, KANSAS 67202

ATTN: MR. JERRY SHAWVER

SUBJECT: CORE ANALYSIS DATA  
MESSNER NO. 1 WELL  
COWLEY COUNTY, KANSAS  
CLI FILE 3402-8754

GENTLEMEN:

CORES TAKEN IN THE SUBJECT WELL IN THE CATTLEMAN FORMATION WERE RECEIVED AT THE OKLAHOMA CITY LABORATORY FOR SPECIAL ANALYTICAL TESTING DESCRIBED ON THE PROCEDURE PAGE.

THE ACCOMPANYING COREGRAPH PRESENTS THE SURFACE CORE GAMMA LOG AND BINOMIALLY AVERAGED CORE ANALYSIS DATA IN GRAPHICAL FORM TO AID CORRELATION WITH DOWNHOLE ELECTRICAL SURVEYS.

TABULAR PRESENTATION OF THE MEASURED PHYSICAL PROPERTIES MAY BE FOUND ON PAGE ONE OF THIS REPORT.

DATA AVERAGES REFLECTING ZONE CHANGES ARE PRESENTED ON PAGE TWO.

THE ANALYZED INTERVAL FROM 3106 TO 3120 FEET HAS RESIDUAL FLUID SATURATIONS INDICATIVE OF WATER PRODUCTIVITY.

IT IS A PLEASURE TO HAVE THIS OPPORTUNITY OF SERVING YOU.

VERY TRULY YOURS,

CORE LABORATORIES, INC.

*Dale E. Boyle (189)*

DALE E. BOYLE  
DISTRICT MANAGER

6 CC JERRY SHAWVER

**CORE LABORATORIES, INC.**  
*Petroleum Reservoir Engineering*  
**DALLAS, TEXAS**

STELBAR OIL CORPORATION  
MESSNER NO. 1 WELL  
FILE NO: 3402-8754

PROCEDURE PAGE

HANDLING AND ANALYTICAL PROCEDURES

DIAMOND CORING EQUIPMENT AND WATER BASE MUD WERE USED TO OBTAIN 3.5 INCH DIAMETER CORES BETWEEN 3106 TO 3120 FEET.

THE CORES WERE PRESERVED AT THE WELL SITE IN A CO<sub>2</sub> ATMOSPHERE BY CLI PERSONNEL.

THE CORES WERE TRANSPORTED TO OKLAHOMA CITY BY CLI PERSONNEL.

A CORE GAMMA LOG WAS RECORDED FOR DOWNHOLE E-LOG CORRELATION.

PLUG ANALYSIS WAS MADE IN INTERVALS REQUESTED.

FLUID REMOVAL WAS ACCOMPLISHED USING HIGH TEMPERATURE RETORTS.

POROSITY WAS DETERMINED BY SUMMATION-OF-FLUIDS TECHNIQUE.

HORIZONTAL AIR PERMEABILITY ON PLUGS MEASURED WITHOUT KLINKENBERG CORRECTION.

TEMPORARY STORAGE OF CORES IN OKLAHOMA CITY LABORATORY AWAITING INSTRUCTIONS.

CORE LABORATORIES, INC.

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DALLAS, TEXAS

CORE SUMMARY

COMPANY STELBAR OIL CORPORATION  
 WELL MESSNER NO. 1  
 PAGE 2 OF 2 FILE 3402-8754

<u>DEPTH</u>	<u>PERMEABILITY</u>			<u>POROSITY</u>	<u>SATURATION</u>	
	<u>MAXIMUM</u>	<u>90 DEGREES</u>	<u>VERTICAL</u>		<u>OIL</u>	<u>WATER</u>
3106-3115		2.6		14.2	0.0	70.8
3115-3120		4.2		12.6	0.0	68.1

**CORE LABORATORIES, INC.**  
*Petroleum Reservoir Engineering*  
 DALLAS, TEXAS

STELBAR OIL CORP.  
 MESSNER NO. 1 WELL  
 WILDCAT  
 COWLEY COUNTY, KANSAS

DATE: 9/9/76  
 FORMATION: CATTLEMAN  
 DRLG. FLUID: WATER BASE MUD  
 LOCATION: SEC. 18-34S-5E

FILE NO: 3402-8754  
 ENGINEER: PUGH  
 ELEVATION:

SMP. NO.	DEPTH	PERM. TO AIR MD. PLUG	POROSITY PER CENT	FLUID SATS.		GR. DEN.	DESCRIPTION
				OIL	WTR.		
CONVENTIONAL ANALYSIS							
1	3106.0-07.0	0.7	14.3	0.0	69.9		SD,SL SHY,SL PYR
2	3107.0-08.0	1.6	14.6	0.0	70.1		SD,SL SHY
3	3108.0-09.0	0.7	15.0	0.0	68.4		SD,SH STKS
4	3109.0-10.0	1.0	14.4	0.0	72.3		SD,SH STKS
5	3110.0-11.0	0.1	13.8	0.0	68.5		SD,SH STKS
6	3111.0-12.0	1.4	12.7	0.0	70.7		SD,SL SHY
7	3112.0-13.0	3.3	14.0	0.0	68.8		SD,SL SHY
8	3113.0-14.0	4.5	13.7	0.0	74.7		SD,SL SHY
9	3114.0-15.0	10.0	15.4	0.0	73.6		SD,SL SHY
10	3115.0-16.0	1.7	13.1	0.0	63.5		SD,SL SHY
11	3116.0-17.0	5.6	11.2	0.0	63.0		SD,SL SHY
12	3117.0-18.0	4.3	12.1	0.0	70.0		SD,SL SHY
13	3118.0-19.0	1.9	12.8	0.0	71.9		SD,SH STKS
14	3119.0-20.0	7.4	13.8	0.0	72.1		SD,DOL,SL SHY

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CORE LABORATORIES, INC.



Petroleum Reservoir Engineering

COMPANY STELBAR OIL CORPORATION FIELD WILDCAT FILE 3402-8754  
 WELL MESSNER NO. 1 COUNTY COWLEY DATE 9/22/76  
 LOCATION SEC. 18-34S-5E STATE KANSAS ELEV. \_\_\_\_\_

# CORE-GAMMA CORRELATION

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VERTICAL SCALE: 5" = 100'

TOTAL WATER 0000  
 PERCENT PORE SPACE

80 60 40 20 0

GAMMA RAY  
 RADIATION INCREASE



PERMEABILITY \_\_\_\_\_  
 MILLIDARCY

100.0 10.0 1.0 0.1

POROSITY \_\_\_\_\_  
 PERCENT

30 20 10

OIL SATURATION XXXX  
 PERCENT PORE SPACE

0 0 20 40 60 80



