

CORE ANALYSIS REPORT

FOR

JENNINGS DRILLING  
IRICK NO. 2 WELL  
LEAVENWORTH COUNTY, KANSAS

JUNE 25, 1982

JENNINGS DRILLING  
P.O. BOX 1340  
LAWRENCE, KANSAS 66044

ATTN: MR. JOHN P. JENNINGS

SUBJECT: CORE ANALYSIS DATA  
IRICK NO. 2 WELL  
LEAVENWORTH COUNTY, KANSAS  
CLI FILE NO. 3406-01664

GENTLEMEN:

DIAMOND CORES WERE TAKEN IN THE SUBJECT WELL AND LATER TRANSPORTED TO OUR CHANUTE LABORATORY FOR ANALYTICAL PURPOSE. THE MEASURED DATA FOLLOWS ON THE ACCOMPANYING PAGES OF THIS REPORT.

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.

PRODUCTIVITY INDICATED FROM THE RESIDUAL FLUID SATURATION DATA IN THE INTERVAL ANALYZED BETWEEN            AND            FEET WOULD LIKELY BE OIL AFTER FORMATION TREATMENT.

ZONAL AVERAGES ALONG WITH ESTIMATES OF RECOVERABLE OIL (WHERE APPLICABLE) ARE PRESENTED ON THE CORE SUMMARY PAGE OF THIS REPORT.

WE APPRECIATE THIS OPPORTUNITY OF SERVING YOU.

VERY TRULY YOURS

CORE LABORATORIES, INC.

J. MICHAEL EDWARDS  
DISTRICT MANAGER

4 CC - ADDRESSEE  
1 CC - MARTY DeBOISE

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

JENNINGS DRILLING  
 IRICK NO. 2 WELL  
 LEAVENWORTH COUNTY, KANSAS

DATE: 6/25/82  
 FORMATION: SQUIRREL  
 DRLG. FLUID: WATER BASE MUD  
 LOCATION: SEC. 7-12S-21E

FILE NO: 3406-01664  
 ENGINEER: HUDSON  
 ELEVATION:

SMP. NO.	DEPTH	PERM. TO AIR MD. PLUG	POROSITY PERCENT	FLUID SATS. OIL	WTR.	GR. DEN.	DESCRIPTION
CONVENTIONAL PLUG ANALYSIS							
1	675.0-76.0	12.0	22.2	5.9	40.1		SD,SL/SLTY,MIC
	676.0-77.0						SD
2	677.0-78.0	11.0	20.7	8.7	47.3		SD,SL/SLTY,MIC
	678.0-79.0						SD
	679.0-81.0						SH
3	681.0-82.0	67.0	24.5	13.5	42.4		SD,MIC
	682.0-83.0						SD
4	683.0-84.0	22.0	24.4	17.2	41.8		SD,SL/SLTY,MIC
	684.0-85.0						SD
5	685.0-86.0	48.0	23.7	17.7	43.0		SD,MIC
	686.0-87.0						SD,SHY
6	687.0-88.0	9.3	21.7	30.4	38.7		SD,SLTY,MIC
	688.0-89.0						SD,SH LAM
7	689.0-90.0	12.0	21.1	24.6	38.9		SD,SL/SLTY,MIC
	690.0-91.0						SD
8	691.0-92.0	14.0	22.0	29.1	36.4		SD,SL/SLTY,MIC
	692.0-93.0						SD
9	693.0-94.0	34.0	23.8	21.4	38.2		SD,SL/SLTY,MIC

Company JENNINGS DRILLINGPage 2Well IRICK NO. 2CLI File 3406-01664

## CORE SUMMARY AND CALCULATED RECOVERABLE OIL

FORMATION NAME	SQUIRREL				
DEPTH INTERVAL	675 - 694				
FEET OF CORE RECOVERED FROM ABOVE INTERVAL	18				
FEET OF CORE INCLUDED IN AVERAGES	9				
AVERAGE PERMEABILITY: MILLIDARCY	26				
PRODUCTIVE CAPACITY: MILLIDARCY-Feet	234				
AVERAGE POROSITY: PER CENT	22.7				
AVERAGE RESIDUAL OIL SATURATION: PER CENT OF PORE SPACE	18.7				
AVERAGE TOTAL WATER SATURATION: PER CENT OF PORE SPACE	40.8				
AVERAGE CONNATE WATER SATURATION: PER CENT OF PORE SPACE					
OIL GRAVITY: °API					
ORIGINAL SOLUTION GAS-OIL RATIO: CUBIC FEET PER BARREL					
ORIGINAL FORMATION VOLUME FACTOR: BARRELS SATURATED OIL PER BARREL STOCK-TANK OIL					
CALCULATED ORIGINAL STOCK-TANK OIL IN PLACE: BARRELS PER ACRE-FOOT	*				

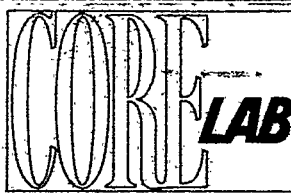
Calculated maximum solution gas drive recovery is \* barrels per acre-foot, assuming production could be continued until reservoir pressure declined to zero psig. These recovery estimates represent theoretical maximum values for solution gas drive and do not take into account any prior production or drainage to other areas. The difference between the calculated stock-tank oil in place and the solution gas drive recovery estimates, which are barrels per acre-foot, represent that portion of the reservoir oil which is available for possible secondary recovery techniques. Estimates of additional recoverable oil by secondary or enhanced methods would necessitate a complete engineering study of the subject reservoir.

(c) calculated

(e) estimated

(m) measured

CORE LABORATORIES, INC.



Petroleum Reservoir Engineering

COMPANY JENNINGS DRILLING FILE NO. 3406-01664  
 WELL IRICK NO. 2 WELL DATE 6/25/82  
 FIELD \_\_\_\_\_ FORMATION SQUIRREL ELEV. \_\_\_\_\_  
 COUNTY LEAVENWORTH STATE KANSAS DRLG. FLD. WATER BASE MUD CORES \_\_\_\_\_  
 LOCATION SEC. 7-12S-21E

# CORRELATION COREGRAPH

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VERTICAL SCALE: 5" = 100'

Total Water \_\_\_\_\_  
 PERCENT PORE SPACE  
 100 80 60 40 20 0

Oil Saturation \_\_\_\_\_  
 PERCENT PORE SPACE  
 0 0 20 40 60 80 100

Gamma Ray  
 RADIATION INCREASE →

Permeability \_\_\_\_\_  
 MILLIDARCIES

Porosity \_\_\_\_\_  
 PERCENT

