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

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:

CONVENTIONAL PLUG ANALYSIS

SMP. NO.	DEPTH	PERM. TO AIR MD. PLUG	POROSITY PERCENT	FLUID SATS. OIL	FLUID SATS. WTR.	GR. DEN.	DESCRIPTION
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 DRILLING

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Well IRICK NO. 2

CLI 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: MILLIDARCYS	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

VERTICAL SCALE: 5" = 100'

Gamma Ray
RADIATION INCREASE →

Permeability
MILLIDARCIES
1000 100 10 1

Depth Feet
650
675
694
700
750

Porosity
PERCENT
30 20 10 0

Total Water
PERCENT PORE SPACE
100 80 60 40 20 0

Oil Saturation
PERCENT PORE SPACE
0 20 40 60 80 100