

NOVEMBER 16, 1982

FOSTER & ASSOCIATES, INC.
1500 WEST HAMPDEN
SUITE 1-B
ENGLEWOOD, COLORADO 80110

ATTN: MR. JOHN M. FOSTER

SUBJECT: CORE ANALYSIS DATA
FRANKLIN NO. 1 WELL
CRAWFORD COUNTY, KANSAS
CLI FILE NO. 3406-01979

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.

THE MEASURED PHYSICAL PROPERTIES ARE SUGGESTIVE OF OIL AND WATER PRODUCTIVITY IN THE INTERVALS FROM 14 TO 25 FEET, AND ALSO 228 TO 231 FEET.

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

THANK YOU FOR THIS OPPORTUNITY TO SERVE YOU.

VERY TRULY YOURS

CORE LABORATORIES, INC.

J. Michael Edwards
J. MICHAEL EDWARDS
DISTRICT MANAGER

2 CC - ADDRESSEE
1 CC - MICHAEL EBERS

COMPANY: FOSTER & ASSOCIATES

WELL: FRANKLIN NO. 1

COUNTY, STATE: CRAWFORD, KANSAS

CLI FILE NO: 3406-01979

CALCULATED STOCK TANK BARRELS PER ACRE FOOT, IN PLACE, FROM THE SUBJECT
WELL ARE LISTED BELOW.

<u>DEPTH</u>	<u>S.T.B./A.F.</u>
14.0 - 15.0	777
15.0 - 16.0	733
16.0 - 17.0	697
17.0 - 18.0	371
18.0 - 19.0	950
19.0 - 20.0	663
20.0 - 21.0	710
21.0 - 22.0	798
22.0 - 23.0	953
23.0 - 24.0	528
24.0 - 25.0	685
25.0 - 26.0	146
26.0 - 27.0	279
228.0 - 29.0	765
229.0 - 30.0	694
230.0 - 31.0	551
231.0 - 32.0	0

Company FOSTER & ASSOCIATES
File FRANKLIN NO. 1

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CORE SUMMARY AND CALCULATED RECOVERABLE OIL

FORMATION NAME	WEISER	SQUIRREL			
DEPTH INTERVAL	14-25	228 - 231			
NET OF CORE RECOVERED FROM BOVE INTERVAL	11	3			
NET OF CORE CLUDED IN AVERAGES	11	3			
AVERAGE PERMEABILITY: DILLIDARCY	58	1.8			
PRODUCTIVE CAPACITY: DILLIDARCY-FEET	638	5.4			
AVERAGE POROSITY: PER CENT	21.1	17.7			
AVERAGE RESIDUAL OIL SATURATION: PER CENT OF PORE SPACE	23.3	26.8			
AVERAGE TOTAL WATER SATURATION: PER CENT OF PORE SPACE	55.4	49.9			
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.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
 DALLAS, TEXAS

FOSTER & ASSOCIATES
 FRANKLIN NO. 1 WELL
 CRAWFORD COUNTY, KANSAS

DATE: 11/16/82
 FORMATION: WEISER/SQUIRREL
 DRLG. FLUID: WATER BASE MUD/AIR
 LOCATION: SEC. 28-27S-23E

FILE NO: 3406-01
 ENGINEER: PRITCHA
 ELEVATION:

SMP. NO.	DEPTH	PERM. TO AIR MD. PLUG	POROSITY PERCENT	FLUID SATS. OIL WTR.	GR. DEN.	DESCRIPTION
CONVENTIONAL PLUG ANALYSIS						
1	14.0-15.0	39.0	23.3	13.4 55.7		SD,CAL,PYR,MIC
2	15.0-16.0	111.0	22.1	16.3 56.0		SD,CAL,PYR,MIC
3	16.0-17.0	23.0	22.8	18.8 59.5		SD,CAL,MIC
4	17.0-18.0	117.0	16.0	19.2 69.2		SD,CAL,MIC
5	18.0-19.0	112.0	23.2	29.7 45.5		SD,CAL,MIC
6	19.0-20.0	35.0	19.1	30.1 53.9		SD,CAL,MIC
7	20.0-21.0	20.0	19.2	29.8 50.9		SD,CAL,MIC
8	21.0-22.0	91.0	22.2	28.7 52.3		SD,CAL,PYR,MIC
9	22.0-23.0	28.0	26.6	31.3 52.5		SD,CAL,MIC
10	23.0-24.0	15.0	19.3	18.7 63.6		SD,CAL,MIC
11	24.0-25.0	50.0	18.4	20.7 50.5		SD,CAL,MIC
12	25.0-26.0	13.0	16.1	0.0 88.0		SD,CAL,MIC
13	26.0-27.0	51.0	19.7	5.5 81.2		SD,CAL,MIC
	27.0-27.4					SD
	27.4-28.0					DRILLED
14	228.0-29.0	1.2	18.2	29.9 44.1		SD,SLTY,SHY,CAL,
15	229.0-30.0	3.3	18.5	27.0 50.2		SD,SLTY,SHY,CAL,
16	230.0-31.0	0.9	16.5	23.4 55.5		SD,SLTY,SHY,CAL,
17	231.0-32.0	0.7	11.7	0.0 87.7		SD,SLTY,SHY,CAL,
	232.0-36.5					SH,SL/SDY