

**FILE COPY**

Y CORPORATION  
CORE ANALYSIS REPORT  
KANSAS 19811  
FOR  
TRIPLE I ENERGY CORPORATION  
BURRIS A-30-W WELL  
MIAMI COUNTY, KANSAS



AUGUST 4, 1983

TRIPLE I ENERGY CORPORATION  
6600 COLLEGE BOULEVARD  
SUITE 310  
OVERLAND PARK, KANSAS 66211

ATTN: MR. STEVE ALLEE

SUBJECT: CORE ANALYSIS DATA  
BURRIS A-30-W WELL  
MIAMI COUNTY, KANSAS  
CLI FILE NO. 3406-02430

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 440 AND 456 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.

SECONDARY RECOVERY FROM A PRUDENT WATER FLOOD PROGRAM MAY APPROXIMATE PRIMARY RECOVERY BARRELS PER ACRE FOOT.

WE APPRECIATE THIS OPPORTUNITY OF SERVING YOU.

VERY TRULY YOURS

CORE LABORATORIES, INC.

*J. Michael Edwards*  
J. MICHAEL EDWARDS IREP  
DISTRICT MANAGER

5 CC - ADDRESSEE

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

TRIPLE I ENERGY CORPORATION  
 BURRIS A-30-W WELL  
 LOUISBURG FIELD  
 MIAMI COUNTY, KANSAS

DATE: 8/02/83  
 FORMATION: WEISER  
 DRLG. FLUID: AIR/SALT WATER MIST  
 LOCATION: 990'NSL 330'EWL; SW 1/4; SEC. 12-17S-24E

FILE NO: 3406-02430  
 ENGINEER: PRITCHARD  
 ELEVATION: 1060.06 FT.

SMP. NO.	DEPTH	PERM. TO AIR MD. PLUG	POROSITY PERCENT	FLUID SATS. OIL	WTR.	GR. DEN.	DESCRIPTION
CONVENTIONAL PLUG ANALYSIS							
1	440.0-41.0	3.3	15.1	24.1	59.5		SD, LMY, DOL, MIC
2	441.0-42.0	5.3	19.9	17.4	47.6		SD, SLTY, SHY, DOL, MIC
3	442.0-43.0	12.0	19.0	18.5	51.9		SD, SHY, LMY, DOL, MIC*
4	443.0-44.0	36.0	21.3	18.4	44.3		SD, SHY, LMY, DOL, MIC
5	444.0-45.0	56.0	20.8	18.6	38.2		SD, SHY, LMY, DOL, MIC*
6	445.0-46.0	24.0	17.9	32.2	33.5		SD, LMY, SHY, DOL, MIC*
7	446.0-47.0	10.0	23.9	18.7	44.0		SD, LMY, DOL, MIC*
8	447.0-48.0	114.0	24.0	18.9	52.0		SD, SHY, LMY, DOL, MIC*
9	448.0-49.0	127.0	24.6	18.9	37.0		SD, SHY, LMY, DOL, MIC*
10	449.0-50.0	73.0	23.0	18.9	49.7		SD, SHY, LMY, DOL, MIC*
	450.0-51.2						LM, SHY, SDY
11	451.2-52.0	12.0	21.2	26.9	48.2		SD, LMY, DOL, MIC
12	452.0-53.0	22.0	26.2	24.7	40.9		SD, SHY, LMY, DOL, MIC**
13	453.0-54.0	9.3	21.5	28.9	40.7		SD, SHY, LMY, DOL, MIC*
14	454.0-55.0	13.0	21.7	33.2	38.6		SD, SHY, LMY, DOL, MIC*
15	455.0-55.8	2.8	20.4	34.1	40.9		SD, LMY, SHY, DOL, MIC*
	455.8-60.0						SHALE

\* DENOTES PYR      + DENOTES LIG

**CORE SUMMARY AND CALCULATED RECOVERABLE OIL**

FORMATION NAME	WEISER				
DEPTH INTERVAL	440-456				
NET OF CORE RECOVERED FROM ABOVE INTERVAL	15				
NET OF CORE INCLUDED IN AVERAGES	15				
AVERAGE PERMEABILITY: MILLIDARCYS	36				
PRODUCTIVE CAPACITY: MILLIDARCY-Feet	540				
AVERAGE POROSITY: PER CENT	21.4				
AVERAGE RESIDUAL OIL SATURATION: PER CENT OF PORE SPACE	23.5				
AVERAGE TOTAL WATER SATURATION: PER CENT OF PORE SPACE	44.5				
AVERAGE CONNATE WATER SATURATION: PER CENT OF PORE SPACE (e)	42.0				
API GRAVITY: °API					
ORIGINAL SOLUTION GAS-OIL RATIO: CUBIC FEET PER BARREL					
ORIGINAL FORMATION VOLUME FACTOR: BARRELS SATURATED OIL PER BARREL STOCK-TANK OIL	1.04				
CALCULATED ORIGINAL STOCK-TANK OIL IN PLACE: BARRELS PER ACRE-FOOT	926				

Calculated maximum solution gas drive recovery is 93 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

Company TRIPLE I ENERGY CORPORATION

Page 3

Well BURRIS A-30-W

CLI File 3406-02430

**CORE SUMMARY AND CALCULATED RECOVERABLE OIL**

FORMATION NAME	WEISER				
DEPTH INTERVAL	440-456				
FEET OF CORE RECOVERED FROM ABOVE INTERVAL	15				
FEET OF CORE INCLUDED IN AVERAGES	15				
AVERAGE PERMEABILITY: MILLIDARCYS	36				
PRODUCTIVE CAPACITY: MILLIDARCY-FEET	540				
AVERAGE POROSITY: PER CENT	21.4				
AVERAGE RESIDUAL OIL SATURATION: PER CENT OF PORE SPACE	23.5				
AVERAGE TOTAL WATER SATURATION: PER CENT OF PORE SPACE	44.5				
AVERAGE CONNATE WATER SATURATION: PER CENT OF PORE SPACE (e)	42.0				
OIL GRAVITY: °API					
ORIGINAL SOLUTION GAS-OIL RATIO: CUBIC FEET PER BARREL					
ORIGINAL FORMATION VOLUME FACTOR: BARRELS SATURATED OIL PER BARREL STOCK-TANK OIL	1.04				
CALCULATED ORIGINAL STOCK-TANK OIL IN PLACE: BARRELS PER ACRE-FOOT	926				

Calculated maximum solution gas drive recovery is 93 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*

CHANUTE, KANSAS

LITHOLOGICAL ABBREVIATIONS

sand - sd  
sandy - sdy  
shale - sh  
shaly - shy  
lime - lm  
limey - lmy  
fine - fn  
medium - md  
coarse - cs  
grain - gr  
slightly - sl/  
very - v/  
with - w/  
silty - slty  
vuggy - vgy  
brown - brn  
dark - dk

laminated - lam  
pyrite - pyr  
gilcinite - gil  
lignite - lig  
dolomite - dol  
chert - ch  
cementations - cmt  
calcareous - cal  
mica or micaceous - mic  
inclusions - incl  
pin point porosity - pp  
fossiliferous - foss  
conglomerate - cong  
clay - cl  
TBA - too broken to analyze



COMPANY TRIPLE I ENERGY CORPORATION FILE NO. 3406-02430  
 WELL BURRIS A-30-W DATE 8/4/83  
 LOCATION LOUISBURG FORMATION WEISER ELEV. 1060.06  
 COUNTY MIAMI STATE KANSAS DRG. FLD. AIR/SALT WATER MIST  
 SECTION 990'NSL 330'EWL; SW 1/4; SEC. 12-17S-24E

## CORRELATION COREGRAPH

These analyses, opinions or interpretations are based on observations and material supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc., (all errors or omissions excepted); but Core Laboratories, Inc., and its officers and employees, assume no responsibility and make no warranty or representations as to the productivity, proper operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

VERTICAL SCALE: 5" = 100'

Best Scanned Copy

**Gamma Ray**

RADIATION INCREASE →

**Permeability**

MILLIDARCIES

**Porosity**

PERCENT

**Total Water**

PERCENT PORE SPACE

100 80 60 40 20 0

**Oil Saturation**

PERCENT PORE SPACE

