

10614

PORTABLE LOGGING CORP.

300 WEST TEXAS #104
MIDLAND, TEXAS 79701
918/684-4801

RECEIVED
OCT 10 1990

OIL CON. DIV

DIST. 3

COMPANY: ARCO OIL & GAS CO.

FIELD: BASIN FRUITLAND COAL

LEASE AND WELL: ATLANTIC FEDERAL & 24-1-31-10

SECTION 24 TOWNSHIP 31N RANGE 10W

COUNTY: SAN JUAN

STATE: NEW MEXICO

TD: 3341 ELEV: 6571 GR: 6583 NO

SPUD DATE: 7-31-90

TD DATE: 8-1-90

UNIT NO:

LOGGING ENGINEERS: CH. JOHNSON

DATES LOGGED: 7-31-90 TO 8-1-90

DEPTH LOGGED: 3135 TO 3341

LITHOLOGY SYMBOLS

- ☒ SANDSTONE
- ☒ SALTSTONE
- ☒ SHALE
- ☒ LIMESTONE
- ☒ DOLOMITE
- ☒ MARSHALITE/GRIP
- ☒ ONERT
- ☒ SALT

COAL

VISIBLE POROSITY

- BLANK
- DN
- 0-10%
- 10%

CUT FLUORESCENCE

- BLANK
- NO SHOWS
- TRACE
- POOR
- FAIR
- GOOD

ABBREVIATIONS

- NG - NEW BIT
- MCB - NEW CORE BIT
- CO - CIRCULATED CUT
- LAT - LOGGED AFTER TRIP
- NR - NO RETURNS
- DC - DEPTH CORRECTION
- WOB - WEIGHT ON BIT
- RPM - REVOLUTIONS PER MINUTE
- SPM - STROKES PER MINUTE
- PP - PUMP PRESSURE
- RG - TRIP GAS
- CG - CONNECTION GAS

MAID PROPERTIES

- WT - WEIGHT
- VS - VISCOSITY
- WL - WATER LOSS
- FC - FILTER CAUSE
- PH - ACID-BASE
- CL - CHLORIDE
- CL - %

DRILLING RATE

- Min./Foot
- FL/Hour
- Deviation Survey

DESCRIPTION - REMARKS & OTHER PERTINENT INFORMATION

HYDROCARBON GAS ANALYSIS

□ TOTAL GAS PER BY VOLUME
MERKAPTE EQUIVALENT IN AIR

□ CHROMATOGRAPHY, PER BY VOLUME

□ (Total Gas) Units of Gas - TG % -
□ (Chromatography) Units of Gas - C₁ % -

100 250 500

DRILG. W/AIR

DRILG. 6 1/4 HOLE
10 FT. SAMPLES
LAGGED

SS WH GY CLR VFG
SUB ANG UNCOMSOL
P SORT SL CALC
SH GY SOFT

9 SAMPLES V/FN-DUET

SH BR CARB SOFT

COAL BL ARGIL
TR PYT

SH BR CARB PYT

SS WH GY CLR VFG
SUB ANG

COAL BL ARGIL PYT

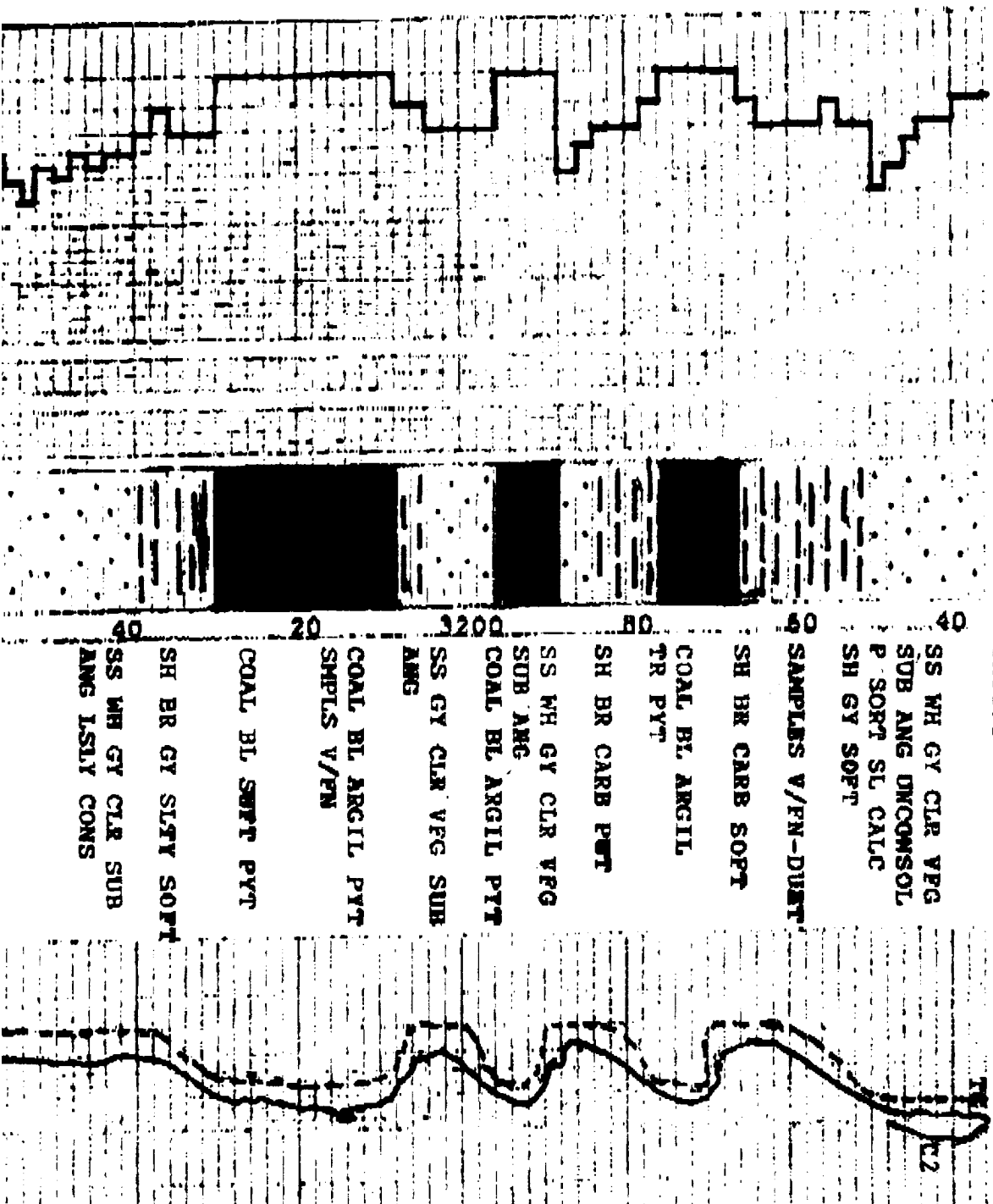
SS GY CLR VFG SUB
ANG

COAL BL ARGIL PYT
SMPLS V/FN

COAL BL SORT PYT

SH BR GY SLTY SOFT

SS WH GY CLR SUB
ANG LSILY CONS





9
SS WH CLR SUB ANG
VFC
COAL BL ARGIL
4
SH BR GY SLTY FIRE
SS WH CLR VFC SUB
ANG SL CALC
COAL BL ARGIL SOFT
4
SH BR SOFT ARGIL
COAL BL ARGIL PYT
SS WH CLR GY SLTY
4
CONS
SH GY BR SOFT
SMPLS V/FN-DUST
SS WH GY PG SUB ANG
4
SH BR ARGIL CAHB

T.D. 3341

8-1-90

