@00796

Permit # 20010

EXPLORATION LOGGING

A GEOLOGICAL - ENGINEERING SERVICE

CONFIDENTIAL

RECEIVED FEB 09 1977 MO. OIL & GAS COUNCIL

REMARKS

DRILLING CONTRACTOR MENDENHALL RIG NO. 1

SPUD DATE 12-21-76

TYPE MUD CHEMICAL

CASING RECORD

10 3/4 AT 185'

AT

HOLE SIZE

13 1/4" TO 185'

8 3/4" TO TD

OIL Based on live oil in unwashed cuttings and percentage staining of washed cuttings.

GAS UNITS Gas Detector calibrated to record 100 units with a mixture of 2% methane-in-air.

ABBREVIATIONS

NB	NEW BIT	W	MUD WEIGHT
RRB	RERUN BIT	V	MUD VISCOSITY
CB	CORE BIT	F	MUD FILTRATE CC/30 MIN
CR	CIRCULATE RETURNS	FC	FILTER CAKE
NR	NO RETURNS	SD	SAND CONTENT
PR	POOR RETURNS	S	SALINITY G/G PPM
LAT	LOGGED AFTER TRIP	R	RESISTIVITY OF MUD
TG	TRIP GAS	RF	RESISTIVITY MUD FILTRATE
CG	CONNECTION GAS		
C	CARBIDE		
DST	DRILL STEM TEST		
I	DST INTERVAL		
▮	CORE INTERVAL		

COMPANY TEXAS PACIFIC OIL COMPANY INC.

WELL K. WELLS 1-12

FIELD WILDCAT

LOCATION SECTION 12-T61N-R34W 900'SL 500'EL

COUNTY, STATE ANDREW COUNTY, MISSOURI

API WELL INDEX NO.

ELEVATION

DATE FROM 12-21-76 TO 1-14-77

DEPTH FROM 185' TO 3,550'

UNIT NO. 128

LOGGING GEOLOGISTS BUD WALKER, C.D. SCHMIDT

LITHOLOGY SYMBOLS

LIMESTONE, DOLOMITE, GYPSUM AND ANHYDRITE, SALT, COAL AND LIGNITE, CLAY, SHALE, SILTSTONE, SANDY SILTST, SAND, CONGLOMERATE, CHERT, VOLCANICS, INTRUSIVE

EXPLORATION LOGGING DRILLING RATE AND DATA	DEPTH	LITHOLOGY	OIL	DRILLING MUD: CONTINUOUS DITCH GAS	DRILLING MUD: CHROMATOGRAPHIC ANALYSIS	CUT	CUTTINGS: GAS	REMARKS AND LITHOLOGY DESCRIPTION
FT/HR; X MIN/FT; VISUAL POROSITY				OIL IN MUD; TOTAL GAS; PETROL VAP	METHANE; ETHANE; PROPANE; BUTANES; PENTANES		TOTAL GAS; PETROL VAP	

10 3/4" CASING TO 180'

DRILLING 8 3/4" HOLE

SECURITY S4

COMMENCE LOGGING SERVICES DEC. 27 76. TWO MAN UNIT. LITHOLOGY BASED ON 10' SAMPLES

NOTE: DRILLING WITH CLEAR WATER.

2.5 5 7.5 10 15

180

NOTE: VERY POOR SAMPLE RETURNS FROM SURFACE CASING, (180') TO 230 FT.

200

65 RPM 500 PSI

SANDSTONE: V LT GRY, FN TO MED AND COARSE GRN, DOM POORLY CONSOLIDATED, SUB ANG TO SUB RD, CLEAR TO FROSTED, WITH MINOR RESIDUAL LIMESTONE.

SS: WHITE TO V LT GRY, MOD HD, V FRIABLE & POORLY CONSOLIDATED, MED TO COARSE GRN, SUB RD TO RD, DOM FROSTED.

280

SHALE: PRED MED GRY, MINOR LT GRY, SOFT, PLATEY, NON CALC, SL SILTY, ABUND RESIDUAL SANDS.

300

SHALE: MED TO DK GRY, SOFT, NON CALC, MICAC; FREQ PYRITE.

LS: LT TO MED BRN, MOD HD, V BRITTLE, FN TO V GRN, IN PART CHALKY, FREQ FOSSIL FRAGMENT, PLATEY TO CHUNKY, DOM CLEAN.

SHALE: MED GRY, SOFT TO MOD FIRM, NON CALC, V MICAC, OCCAS CARBONACEOUS CONCENTRATIONS.

SH: MED GRY, SOFT, NON CALC, V MICAC, PLATEY.

LS: LT TO MED BRN, MOD HD, V BRITTLE, FN TO V FN GRN, IN PART CHALKY, PLATEY TO CHUNKY.

LS: BUFF TO CREAM, MOD HD TO HD, V FN TO FN GRN, IN PART CHALKY, SCATTERED DULL YEL FLUOR, NO CUT

SS: CLEAR TO WHITE, UNCONSOLIDATED, MED TO COARSE GRAIN, ROUNDED

LS: BUFF TO CREAM, MOD HARD, V FN GRAIN.

SHALE: MED GRAY, SOFT, V CALC, V MICAC, CHUNKY

LS: BUFF TO CREAM, MOD HD TO HD, V FN TO FN GRN

SHALE: MED GRAY, SOFT, V MICAC, CALC IN PART, CHUNKY

LS: BUFF TO CREAM, MOD HD, V FN TO FN GRN, NO FLUOR, NO CUT

SHALE: MED GRAY, SOFT, MICAC, CHUNKY

[illegible]