Weyerhaeuser B1 Run 1 #1

EXLOG

COMPANY AMOCO PRODUCTION COMPANY

WELL "AMOCO-WEYERHAEUSER" B-1
FIELD WILDCAT
REGION DOUGLAS COUNTY, OREGON
COORDINATES SEC. 13, T25S-R9W, W.B&M
API WELL INDEX NO. 019-00027
SPUD DATE 9-22-84
ELEVATION 1430' (GL) 1455' (KB)

TOTAL DEPTH 7447'
CONTRACTOR PETER BAWDEN 21E
RIG / TYPE LAND TRIPLE

LOG INTERVAL

DEPTH FROM 99' TO 7447'
DATE FROM 9-22-84 TO 11-16-84
SCALE 1:600 UNIT 286
LOG PREPARED BY LINDBERG, REAY, McCREA, BEALS

HOLE SIZE

26" TO 1026' ______ TO ______
17½" TO 5768' ______ TO ______
12¼" TO 7447' ______ TO ______

CASING RECORD

20" AT 1006' ______ AT ______
13 3/8" AT 5766' ______ AT ______
______ AT ______ ______ AT ______

MUD TYPES

L.S.N.D. TO 5768'
K-LIG TO 7447'
______ TO ______

LITHOLOGY SYMBOLS

LIMESTONE, DOLOMITE, ANHYDRITE AND GYPSUM, HALITE
COAL AND LIGNITE, CLAY, SHALE, SILT AND SILTSTONE
SILTY SANDSTONE, SAND AND SANDSTONE, CONGLOMERATE, CHERT
IGNEOUS UNDIFFERENTIATED, VOLC, BAS, TUFF

EXLOG SUITE

FORMATION EVALUATION LOG ☒
PRESSURE EVALUATION LOG ☐
DRILLING DATA PRESSURE LOG ☐
☐
WIRELINE DATA PRESSURE LOG ☐
TEMPERATURE DATA LOG ☐
GEMDAS COMPUTER LOGS ☐
☐

ABBREVIATIONS

NB	NEW BIT	SVG	SURVEY GAS
RRB	RERUN BIT	C	CARBIDE TEST
CB	CORE BIT	W	MUD DENSITY LBS/GAL
WOB	WEIGHT ON BIT	V	FUNNEL VISCOSITY
RPM	REVS PER MINUTE	F	FILTRATE — API
FLC	FLOW CHECK	FC	FILTER CAKE
CR	CIRCULATE RETURNS	PV	PLASTIC VISCOSITY
PR	POOR RETURNS	YP	YIELD POINT
NR	NO RETURNS	SOL	SOLIDS — %
LAT	LOGGED AFTER TRIP	SD	SAND — %
BG	BACKGROUND GAS	S	SALINITY — PPM Cl
TG	TRIP GAS	RM	MUD RESISTIVITY
STG	SHORT TRIP GAS	RMF	FILTRATE RESISTIVITY
CG	CONNECTION GAS		
SWG	SWAB GAS		

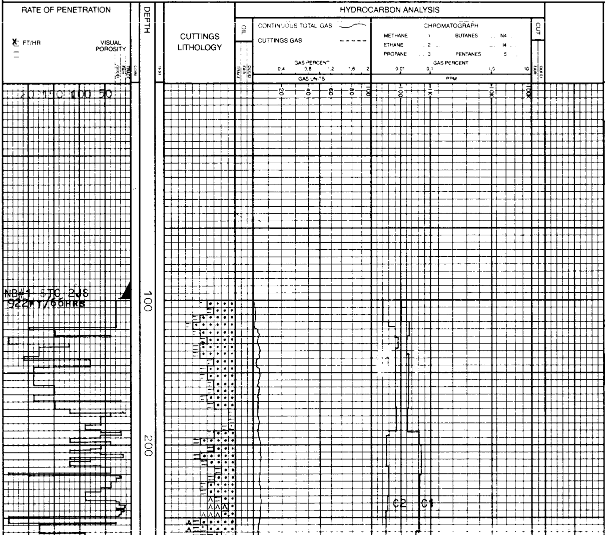
CASING SEAT — WIRELINE LOG RUN
CORED INTERVAL — TEST INTERVAL
NO RECOVERY — + WIRELINE TEST
▶ SIDEWALL CORE

GAS — 100 Total gas units is equivalent to 2% methane-in-air

OIL — Based on live oil in unwashed cuttings and pe[illegible] of [illegible] cuttings

RECEIVED - PTLD
FEB 11 1985
DEPT. OF GEOLOGY & MINERAL INDUS.

FORMATION EVALUATION LOG



LITHOLOGY DESCRIPTION AND REMARKS

SET 30 INCH CONDUCTOR AT 98 FEET.
DRILL OUT WITH 26 INCH BIT. JETS = 18:18:18

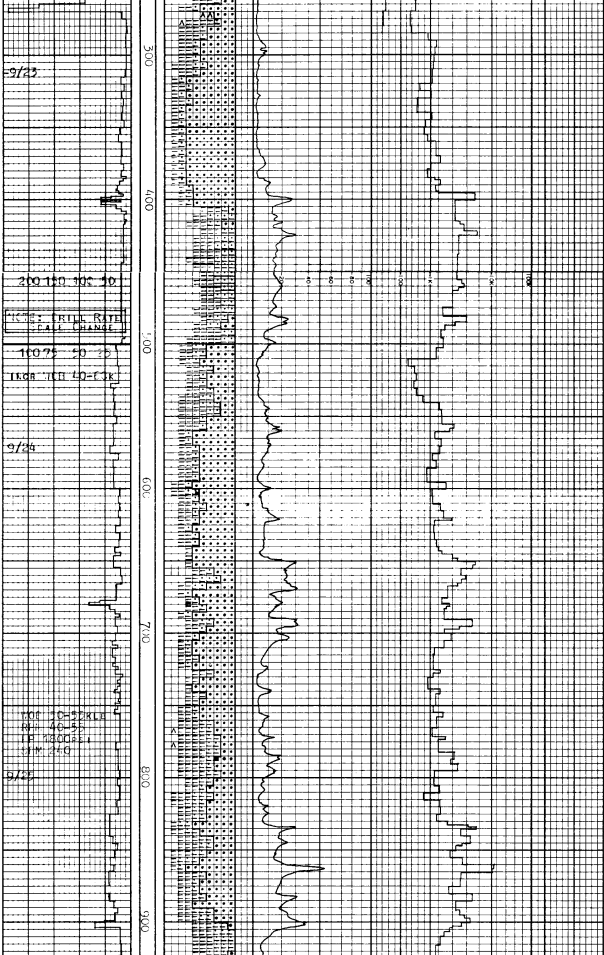
SDST:GY-GY GN,M-W SRTD,CLR-FROS QTZ,MNR CHLOR,M-W IND

C=30U AT 40V
LAG=3MIN AT 240SPM

CLY:GY-GY GN,FRM,SL STKY MNR P SRTD CLR-FROS QTZ SD INTBDD,MNR MICA

SDST:GY-GYGN,F-C GRN,P-M SRTD,CLR-FROS QTZ,OCC F-CRS MICA,LOC W CMTD,N [illegible] LO CALC

CHT:LT GY,FNLY INTBDD/ LT GY SOL-N SOL CLY,COM KAOL,MNR VF CLR QTZ SD INTBDD



SVY AT 244'=1° NE

SS:LT GY,HD,F-VF GR,MOD-W SRTD,PRED CLR QTZ,SB-ANG,SL CALC,ARG MTRX,OCC MUSC,RR CALC RHMB

SLTST:LT BRN-BRN,FRM,ARG, OCC SL SDY IN PT

SS:V LY GY,BLK & WH,HD,F-VF GR,MOD SRTD,PRED CLR-MLKY QTZ,SB ANG,SL CALC, ARG KAOL MTRX,TR MUSC

W 8.8 V 42 F 8.9
S 300 SOL 4% SD TR
FC 2/32 PH 10.5

SLTST:BRN-LT GY,W IND, FRI,MNR VF CLR QTZ SD LOC INTBDD,LOC ABND KAOL

W 8.8 VIS 42 PV 11
YP 8 SOL 4% FC 2
PH 10.5 SD TR CL 300

SVY AT 488' 1/2° N25E

SS:LT GY,BLK & WH,HD,V W IND,F-VF GR,SB ANG, PRED CLR FROS QTZ,MOD SRTD,ARG MTRX,SL CALC, N VIS POR,COM BIOT,COM MUSC

SLTST:GY-DK GY,FRM-HD,W IND,ARG,SDY IN PT,INTBDD W/ VF QTZ SS

SS:LT/GY-WH,COM MUSC,W CMTD/ CALC CMT,F-M GR, MOD W SRTD CLR FROS QTZ, LOC ABNT DK BN HD-FIS SLST INTBDD

C=30U AT 42V
LAG=21MIN AT 240SPM

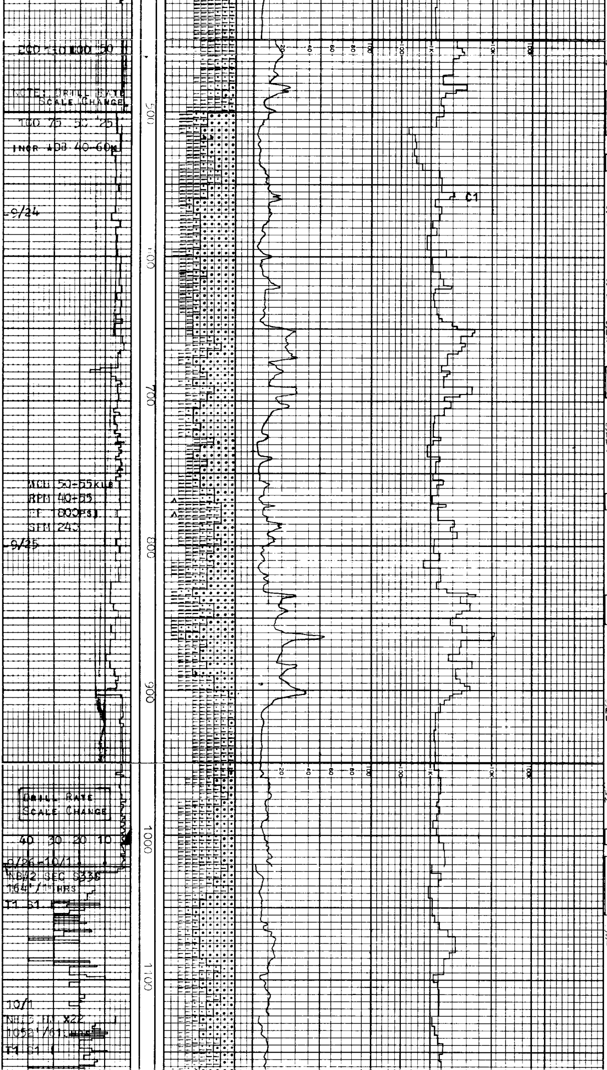
SS:GY-GY BN,FRI-MOD HD, M GR, SB-ANG-SB RND, P-MOD SRTD,W IND,FROS QTZ W/DK INCL,MNR INTBDD SLTST

SVY AT 734' 1/2° N53E

SLTST:DK GY GRN-DK GY, DK BRN,FRM-HD,MOD-V W SRTD,N-SL CALC,COM MICA, ARG,INTBDD W/V F QTZ SS

C=10U AT 42 VIS
LAG=25MIN AT 240SPM

SLTST:DK GY-DK BRN,W IND FIS,MNR LT GY CLY INTBDD LOC VF CLR QTZ SD INTBDD



LT: T: BRN-LT GY, W IND, FRI MNR VF CLR QTZ SD LOC INTBDD, LOC ABND KAOL

W 8.8 VIS 42 PV 11
YP 8 SOL 4% FC 2
PH 10.5 SD TR CL 300

SVY AT 488' 1/2° N25E

SS: LT GY, BLK & WH, HD, V W IND, F-VF GR, SB ANG, PRED CLR-FRSTD QTZ, MOD SRTD, ARG MTRX, SL CALC, NO VIS POR, COM BIOT, COM MUSC

SLTST: GY-DK GY, FRM-HD, W IND, ARG, SDY IN PT, INTBDD WITH VF QTZ SS

SS: GY-GY BN, FRI-MOD HD, M GR, SB ANG-SB RND, P-MOD SRTD, W IND, FROS QTZ W/DK INCL, MNR INTBDD SLTST

C=30U AT 42V
LAG=21MIN AT 240SPM

SS: LT GY-WH, COM MUSC MICA W CMTD / CALC CMT, F-M, MOD W SRTD CLR-FROS QTZ, LOC ABNT DK BRN HD-FIS SLTST INTBDD

SVY AT 734' 1/2° N53E

SLTST: DK GY GRN-DK GY, DK BRN, FRM-HD, MOD-V W SRTD, NON-SL CALC, COM MICA, ARG, INTBDD WITH V F QTZ SS

C=10U AT 42 VIS
LAG=25MIN AT 240SPM

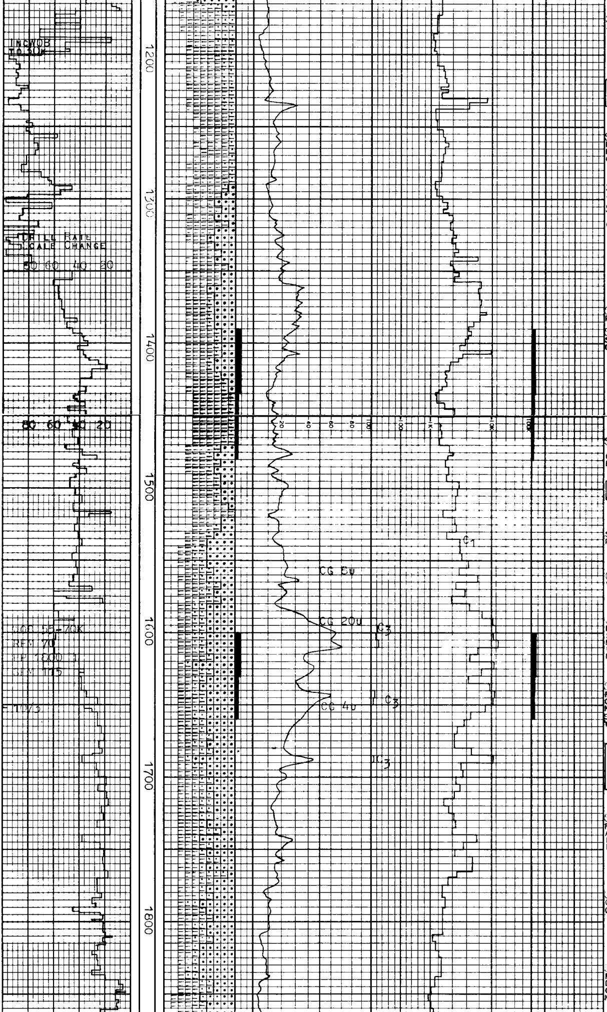
SLTST: DK GY-DK BRN, W IND, FIS, MNR LT GY CLY INTBDD, LOC VF CLR QTZ SD INTBDD

SLTST: DK BRN, HD, W IND, COM W IND SS INTBDD, LOC CALC, MNR LT GY SOL CLY

FLOW LINE TEMP. = 128°F

SET 20INCH CASING AT
1006 FEET.
DRILL OUT WITH 17½ INCH
BIT. JETS = 16:15½:15½

SS: LT GY-WH, F-M GRN, P SRTD, V W CMTD, SL CALC, COM INTBDD HD GY SLTST



SLTST:DK GY,HD,W IND,MNR F W SRTD CLR-FROS QTS SD INTBDD

C=30u AT 38v
LAG=18MIN AT 232SPM

SLTST:GY-DK GY,HD,W IND, PLTY,MOD SRTD,INTBDD W/ KAOL CLY,MNR VF GR FROS QTZ SS

SLTST:GY-DK GY,HD,W IND, P SRTD,KAOL CLY INTBDD

SS:LT GY-GY,MOD HD,VF-F GR,SBANG,MOD SRTD,CALC CMT,FROS QTZ W/DK INCL

SLTST:DK GY,MOD HD,W IND, P SRTD

SS:LT GY,MOD HD,F-M GR, SBRND,P SRTD,CALC CMT, CLR FROS QTZ W/DK INCL,SL OIL STN, SL YEL CUT FLOR

SLTST:DK GY,HD,P SRTD,W IND,INTBDD W/LT GY,HD,F GR,SBANG,CALC CMT,CLR FROS QTZ & BIOT SS

VY AT 1448' ½° N39E

SS:CLR-FROS,FRI,F-M,ANG-SBANG,OCC SBRND,W SRT, PRED QTZ GR,COM BIOT

CLY:LT GN-OLV GY,V SFT, V SOLU,BCM INCR SCS

SLTST:LT GY-GY BRN,OCC M BRN,FIRM-MOD HD,MAS-SBFIS,DOL-SIL CMT,COM MIC MICA,SDY SLTST:PRED BRN,FRI,ABNT QTZ IN SLTY MTX,COM BIOT

SS:PRED CLR,OCC FROS,FRI-FIRM,F-M,OCC C,MOD W SRT, CALC CMT IN PART,COM BIOT, MNR AMT BLK LITH FRAG, SL STN, DULL GOLD FLOR, SL YEL CUT FLOR

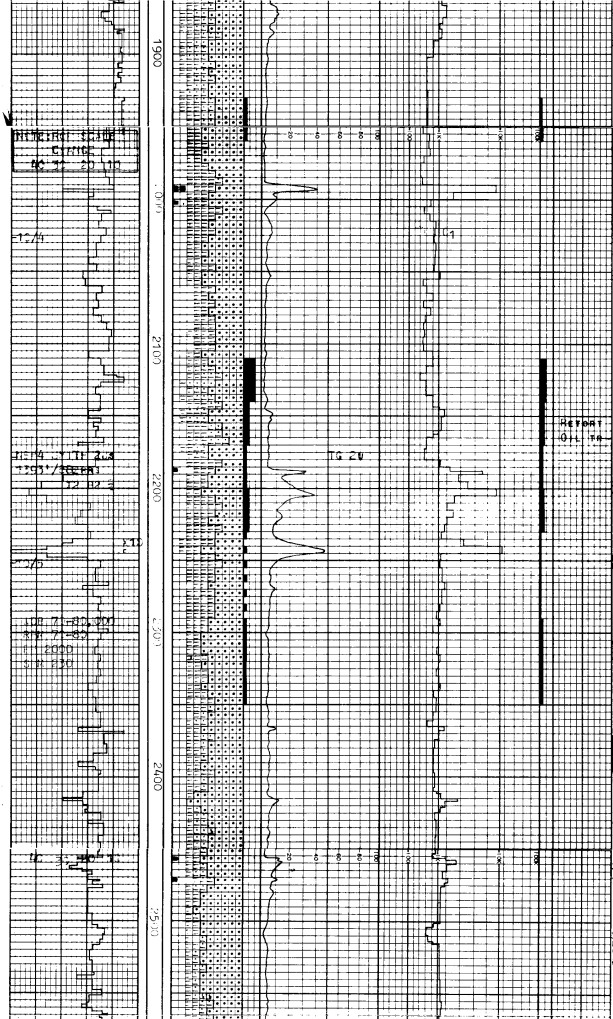
W 8.6 V 40 F 16 FC 3
PV 8 YP 6 pH 11.0
SD TR SOL 2.3 CL 500

SLTST:GY BRN-MOD BRN, FIRM-MOD HD,MAS-SBFIS,SL AMT CALC CMT,CTGS BCM INCR SLTY,COM MIC MICA, INTBD SS & SDY SLTST

SS:LT GY,F-M GRN,P SRTD CLR-FROS QTZ,W CMTD,N CALC,COM INTBDD DK GY SLTST,HD,FIS,W IND, NCOSF

SS:LT GY,F-M,P SRTD,CLR-FROS QTZ,SL-N CALC,INTBDD DK GY W IND SLTST,MNR LT GY SFT SOL CLY MTX,MNR MUSC MICA IN SS MTX

C=15u AT 40v
LAG=30MIN AT 229SPM



LIG:BLK,FIRM,BRIT,BLKY,OCC CONCH FRAC,INTBD W/ SLTST:MOD BRN-DK BRN,MOD HD,SBFIS-FIS,OCC MAS,PRED SIL CMT,ABNT MIC MICA

CLY:OLV GY,V SFT,V SOLU, W HYD IN CTGS

SS:CLR-FROS QTZ GRN,FRI-MOD HD,F-M,MOD SRT,PRED SIL CMT,COM VCOL LITH FRAGS,ABNT BIOT, NCOSF

W 8.8 V 40 F 11.2 FC 1
PV 11 YP 8 PH 9.5
SD TR SOL 3.5 CL 500

SS:LT GY,F-M,P SRTD,CLR-FROS QTZ,W CMTD,SL CALC,COM BIO MICA IN SS MTX,COM DK GY-DK GN HD,W IND SLTST INTBDD, G STN, VIS POR, NO FLOR, P YEL CUT

SLTST:GY BRN-MOD BRN,FRI-FIRM,ERTHY,SL CALC,SBFIS-FIS,OCC SDY,COM MIC MICA, GRD TO SHY SLTST, G STN, NO FLOR, P YEL CUT FLOR

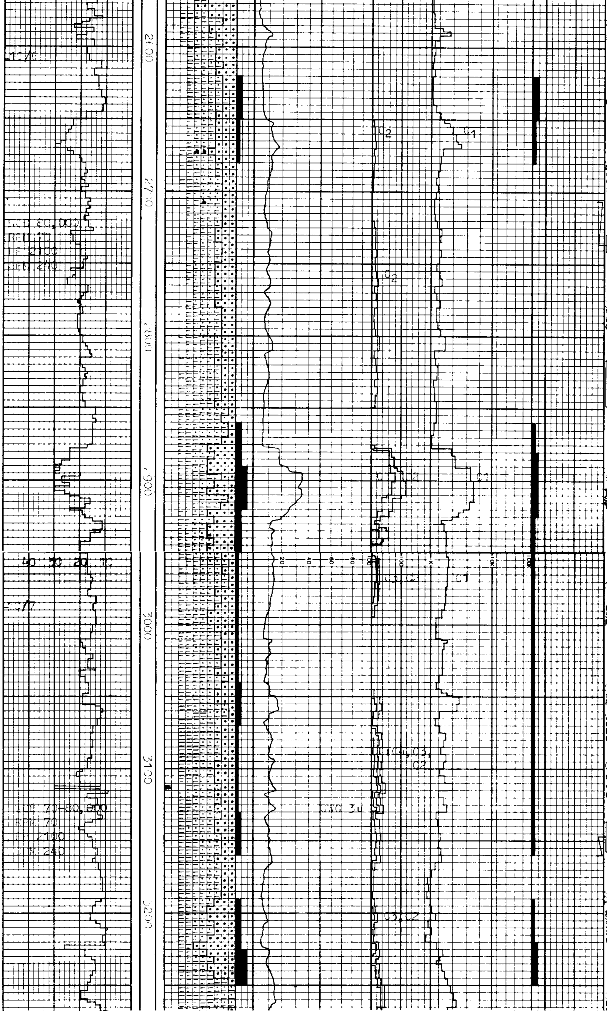
CLY:LT GY-GN,V SFT-DNS,W HYD IN CTGS,V SOLU

W 8.7 V 41 F 12 FC 1
PV 14 YP 9 PH 9.8
SD TR SOL 3.0 CL 500

C=25u AT 41VIS
LAG=33MIN AT 238SPM

SS:LT GY-LT BRN,LOC V CALC W/ COM KAOL,F-M,P SRTD CLR-FROS QTZ,MNR DK GY W IND SLTST

SS:LT GY,F-M,P SRTD,CLR-FROS QTZ,ANG-SBANG,LOC COM KAOL,MNR DK GY W IND SLTST INTBDD,COM CALC CMT V G STN, NO FLOR OR CUT



SLTST:DK BRN-DK GY,HD,W IND,DEC F-M,P SRTD CLR-FROS QTZ GRN,C M KAOL THNLY INTBDD

CLY:LT GY-OLV GN,V SFT-SFT,MOD SOLU,W HYD IN CTG

SDYSLTST:GY BRN-MOD BRN,MOD HD-HD,SLTY MTX W/ F CLR-FROS QTZ GRN,MAS-SBFIS,COM BLK LITH FRAGS, NO FLOR OR CUT, VISIBLE STAIN

SVY AT 2707' 1/8 S31E

SS:GY-DK GY,FRI-MOD HD,VF-F CLR-FROS QTZ GRN,MOD W SRT,CALC CMT,OCC BIOT,COM BLK LITH FRAGS

W 8.9 V 53 F 11.2 FC 2
PV 22 YP 16 PH 10.8
SD ¼ SOL 4.1 CL 500

SS:LT GY,VF CLR QTZ,W SRTD,INTBDD / LT TO DK BRN,HD,W IND,MNR KAOL,SL TR-SL OIL STN,DUL GLD SAMP FLOR,STRMG CUT,DUL YEL-GLD YEL CUT FLOR

SLTST:DK GY-GY GN,HD,W IND,COM LT GY W SRTD SS INTBDD,TR BNDD OIL & TR OIL STN,SPTY YEL GLD SAMP FLOR,TR V SLO CUT,FNT MLKY YEL WH CUT FLOR

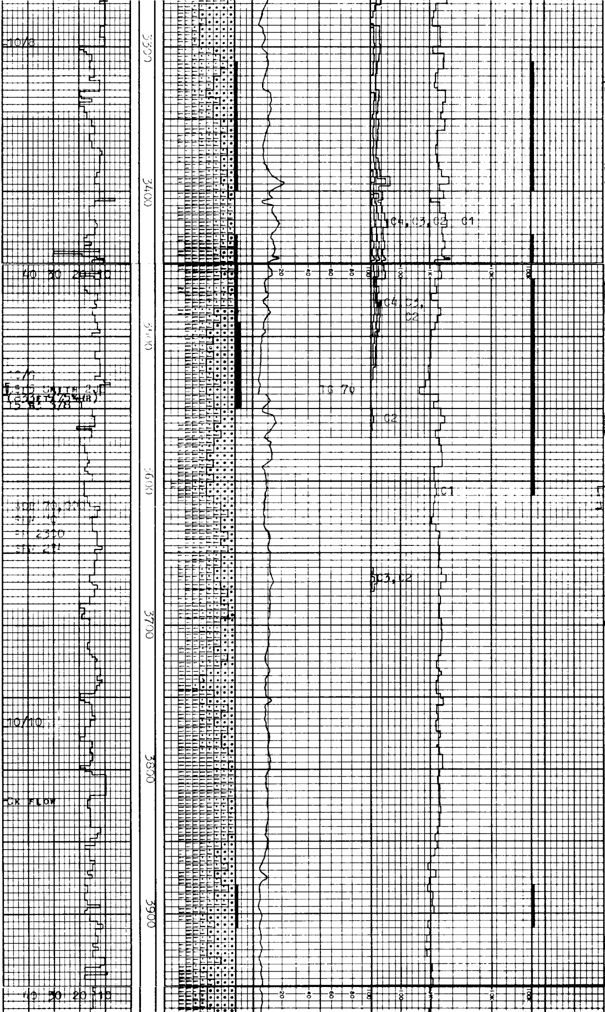
SS:LT GY,F-M,MOD W SRTD CLR-FROS QTZ,W IND,LOC FRI,COM MICA INTGRAN/SS,INTBDD / DK GY SLTST,HD W IND,LOC CALC,TR BNDD OIL,OCC-RR OIL STN,SPTY DUL GLD SAMP FLOR,TR SLO CUT,YEL GLD CUT FLOR

CLY:LT GY-GY,V SFT,V SOLU,W HYD IN CTGS,SL STKY,W INTBDD W/SS:RR OIL STN,TR YEL GLD SAMP FLOR,TR SLO CUT,MLKY YEL WH CUT FLOR

C=17U AT 52VIS
LAG=42MIN AT 240SPM

SLTST:DK GY-MOD GY,MOD HD-HD,SL CALC CMT,MAS-SBFIS,OCC BLKY,INTBD SS & SDY-SLTST,GRN CALC MIN FLOR,SS:G-ABNT OIL STN,OCC YEL SAMP FLOR,TR-FR CUT,STRMG CUT,YEL CUT FLOR

SLTST:DK GY,HD,W IND,MNR KAOL INTBDD,MNR W IND



FROS QTZ,TR OIL STN IN SS
NO FLOR,NO CUT

SS:LT GY,F-M,M W SRTD CLR
-FROS QTZ,TR CHLOR,LOC
CALC,DK GY HD,W IND LT T
INTBDD,G OIL STN IN SS,P-
SCAT SAMP FLOR,DUL GLD
SAMP FLOR,TR SLO CUT,MLKY
YEL WH CUT FLOR

SLTST:DK GY-GY GN,HD,FIS,
W IND,MNR LT BRN SFT CLY
INTBDD,MNR SS,F-M GRN,M
W SRTD,W CMTD,SL CALC,TR
OIL STN IN SS,5% DUL GLD
SAMP FLOR,TR SLO CUT,TR
FNT YEL WH CUT FLOR

8.8 V 52 F 8.4 FC 1
PV 23 YP 21 PH 1
SD & SOL 3.7 CL 600

SS:WH-BUFF GY,MOD HD-HD,
PRED F-M,CLR-FROS QTZ
GRN,P SRT,CALC CMT IN
PART,SBANG-SBRND,COM MICA
,INTBD W/ SLTST,TR-COM OIL
STN IN SS,TR-SCAT YEL GLD
SAMP FLOR,QUICK STRMG CUT,
YEL CUT FLOR

C=170 AT 33VIS
LAG=54.2MIN AT 232SPM

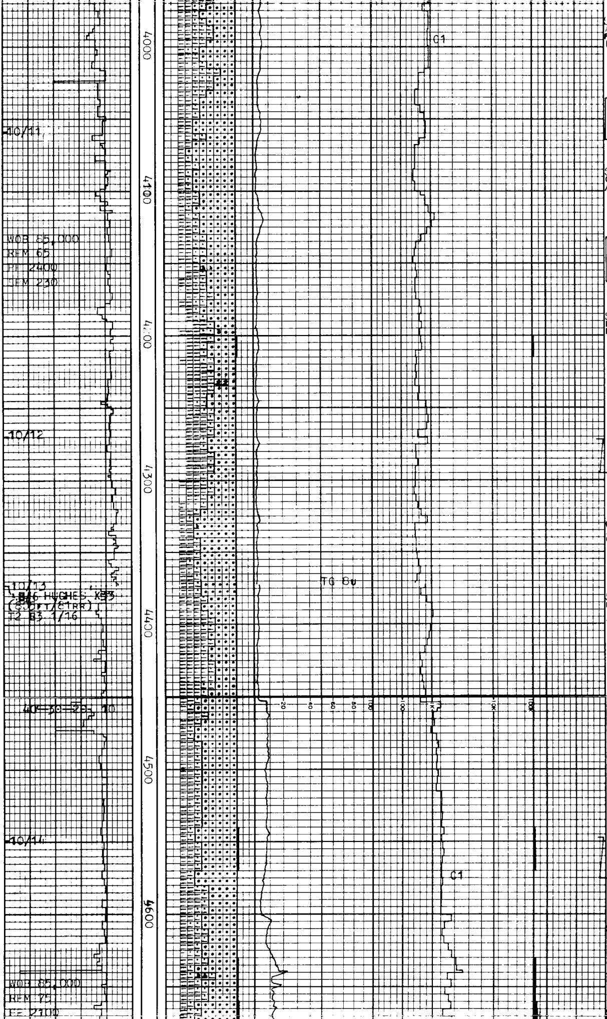
SLTST:DK GY,FIS,W IND,/
LT GY SS INTBDD,F-M,P
SRTD CLR-FROS QTZ,LOC ABNT
CALC CMT,COM MICA IN SS
MTX

SS:LT GY,W IND,FRI,F-M,M
W SRTD CLR-FROS QTZ,ANG-
SB ANG,LOC W CMTD,LOC
CALC,DK GY HD,W IND LTST
INTBDD

SLTST:DK GY,HD,FIS,W IND,
MNR LT GY SOL CLY,MNR
ARAG?

SVY AT 3780' 1° S36W

SS:WH-LT GY,MOD HD -HD,
F M,MOD SRT,CLR-FROS QTZ
GRN,COM BIOT,ABNT BLK
LITH FRAG,V TR OIL STN,TR
V SLO CUT,MLKY YEL WH CUT
FLOR



SS:LT GY,HD-FRI,M W IND,
ANG-SBANG,CLR-FROS QTZ,
F-M,M W SRTD,DK GY HD, W
IND SLTST INTBDD,COM KAOL

C=24 U AT 51VTS
LAG=60MIN AT 228SPM

SS:LT GY,HD-FRI,MW SRTD
CLR-FROS QTZ,ANG-SBANG,
/SLTST,DK GY,W IND,INTBDD

W 9.0 V 54 F 8.8 FC 2
PV 20 YP 20 pH 9.6
SD TR SOL 4.8 CL 400

SLTST:GY BRN-MOD BRN,
FIRM-MOD HD,LOC SBFIS-
FIS,RR MIC LAM,OCC SDY,
INTBD W/ SS

SS:LT GY,HD,SL FRI,F-M
GR,W IND,SB ANG-SB RND,
CLR-FRSTD QTZ,M-W SRTD,
INTBDD SLTST,MIC LIM SLTST

SVY AT 4272' S52E

CLY:LT GY-OLV GN,V SFT,
SL STKY,V SOLU,W HYD IN
CTGS,RR PYR

SLTST:GY BRN,FIRM-MOD HD,
ERTHY,LOC CALC CMT,SBFIS,
GRD TO FIS,ABNT MIC MICA,
SDY IN PART,RR MICLAM

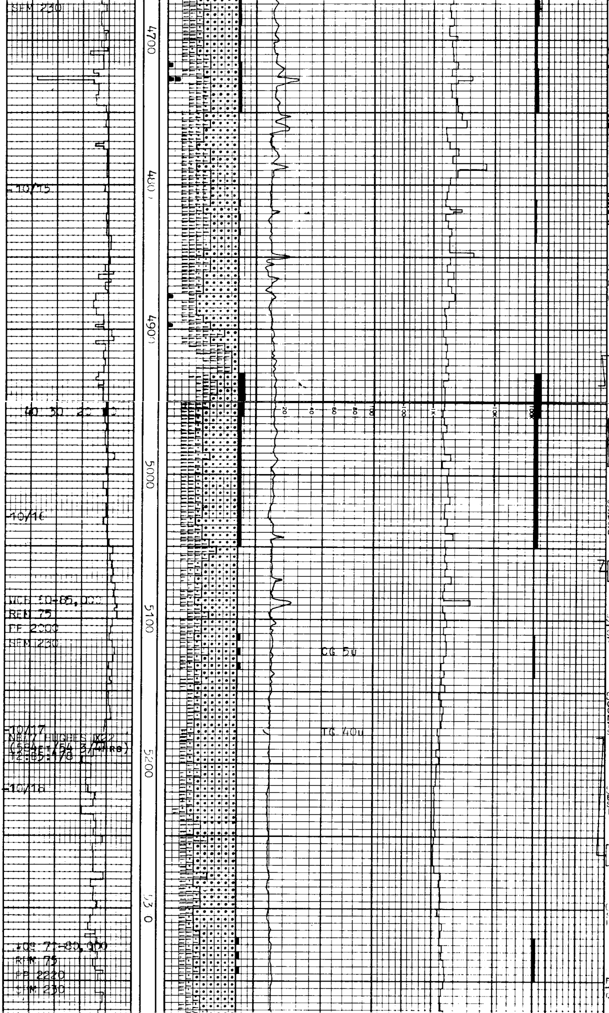
SS:LT GY,DK GY,HD,OCC FRM,
VF-F GR,ANG-SB ANG,PRED
CLR QTZ,SLTY ARG MTRX,TT,
TR CALC,NO VIS POR

SLTST:GY-DK GY,HD-FRM,BLKY
SL SDY,INTBDD VF QTZ SS

SVY AT 4547' 3/4° S21W

SS:WH-LT GY,DK GY-LT GN,
FIRM-HD,FRI,F-M,ANG-SBANG
P SRT,LOC CALC CMT,QTZ,
COM BIOT,SLTY MTX IN PART

W 8.6 V 42 F 18.4 FC 3
PV 9 YP 7 pH 10.2
SD TR SOL 1.8 CL 1700



LIG:BLK,MOD HD,PRED FLKY,
OCC BLKY,INTBD W/ SLTST
& SS

SLTST:GY-LT GY,GY BRN-BRN,
FRM,HD,BLKY,W STRD-SL SDY,
ARG,TR SL CALC

SS:LT-DK GY,GY GRN,FRM-HD,
SL FRI,F-VF GR,MOD W SRTD,
COM MICA,PRED CLR QTZ,SB
ANG-RND,RR V W RND,OCC LI
THIC FLAGS

SLTST:MOD GY-DK GY,HD,
BLKY,PRED SIL CMT,COM MIC
MICA,GRD TO SH @ 4915':
LT GY-GY BRN,FIRM-HD,PRED
FIS,ABNT MIC LAM

C=20u AT 43VIS
LAG=73MIN AT 228SPM

W 8.8 V 43 F 13.6 FC 2
PV 13 YP 9 pH 9.8
SD TR SOL 3.4 CL 2500

SS:LT-DK GY,FRM-HD,MOD W
SRTD,PRED SB ANG QTZ GRNS,
VF-F GR,OCC M-CRS GR,NON-
SL CALC,ARG MTRX IN PT,TR
GYP,INTBDD DK BRN SLTST

SVY AT 5007' 1° S19W

SLTST:MOD BRN-DK BRN,FIRM
-MOD HD,SBFIS-FIS,SIL CMT,
SDY IN PART,ABNT MIC MICA,
THINLY BD IN MAS SS

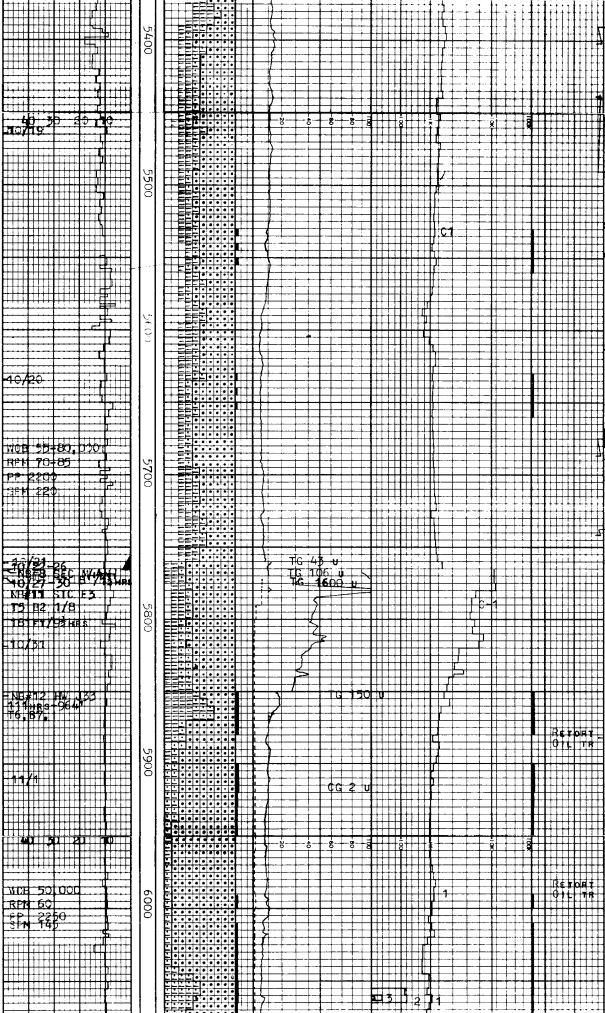
SS:LT-DK GY,FRM-PRED HD,
CLR ANG-SB ANG QTZ,F-VF
GR,TR MED-CRS GR,W RND SD,
NON-SL CALC,ARG-SLTY MTRX,
TR GYP,MIC LAM WITH BRN
SLTSTN

SLTST:BRN-DK BRN,FRM-HD,
BLKY,TR SBFIS,SIL CMT,V
SL CALC IN PT,COM MICA,
INTBDD WITH F GR SS

VY AT 5193' 3/4° S01W

CLY:LT GY-MOD GY,V SFT,
SL CALC,V SOLU,SL STKY,W
HYD IN CTGS,RR PYR

SS:LT GY-GY GN,MOD HD,
FRI,PRED F-VF,OCC M-C,ANG
-SBRND,LOC CALC CMT,ABNT
QTZ,COM BIOT,OCC GYP



C=8U AT 53VIS
LAG=61.2MIN AT 230SPM

SLTST:BRN-DKBRN-BLK,PRED BLKY,OCC SBFIS,ARG,SIL CM
TR SL CALC,SL SDY IN PART

SVY AT 5437' ½° S82E

SS:LT GY-GY GN,MOD HD,OCC FRI,F-VF,OCC C-M,MOD SRT, ANG-SBANG,LOC CALC ON LT CTGS,PRED QTZ,ABNT MIC-MICA,TR GYP

W 9.0 V 54 F 12 FC 2
PV 17 YP 16 pH 9.5
SD TR SOL 3.8 CL 4500

SLTST:DK BRN-BRN,FRM-HD, BLKY-SBFIS,ARG,SIL CMT, RR SL CALC,SL SDY

CLAY:LT GY-LT GY GRN,V SF
V SL CALC IN PART,WTR SOL
OCC SL SLTY,PRED SM

SVY AT 5687' ¼° S59W

SS:MOD GY-GY GN,PRED VF-F,OCC M,MOD SRT,ANG-SBANG CALC IN PART,CLR QTZ,COM MIC MICA

C=22U AT 55VIS
LAG=64.4MIN AT 220SPM

RAN SCHLUMBERGER DIL
BHC, GR, FDC, CNL, CL, HDT,
CST

SET 13 3/8 INCH CASING
AT 5766 FEET. DRILL OUT
WITH 12 1/4 INCH BIT.

CHANGE MUD SYSTEM FROM
LSND TO K-LIG.

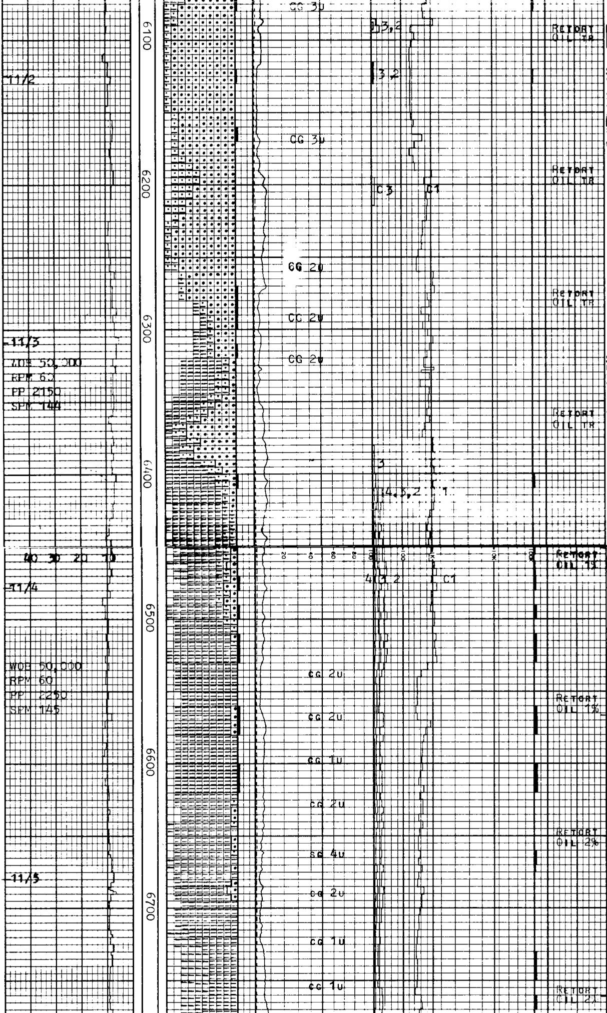
RUN WELEX CBL.
PERFORATE 13 3/8 CASING
AT 5416, 5462, 5472 FEET.
RECEMENT 13 3/8 CASING
AT SHOE.

SS: LT GY-LT BL, MOD HD, VF-F GR, SBRND-W RND, PRED
CL QTZ, CALC CMT, DULL GOLD FLOR, V FNT LT BL CUT FLOR, NO STN

C=43U AT 52 VIS
LAG=65MIN AT 145SPM

SS:LT GY-LT BL, HD-VHD, VF-F GR, ABANG-SBRND, CALC IN PART, PRED CL QTZ, TR OF MNRL FLOR, SL PALE YEL CUT FLOR, NO VIS CUT

SLTST: BRN-DK BRN, FRM, OCC SBFIS, V SILTY THRU, SL CALC, NO SAMPLE FLOR, SLO PALE YEL TO MILKY WH CUT FLOR, NO VIS CUT



SVY AT 6056' 1/4° S36E

SS:LT GY-MED GY,LSE-MOD W CONS,SL FRI-FRI,VF-F GR, ARG-SLTY MTRX,SME CALC CMT,PRED CLR-MLKY QTZ,NO VIS OIL STN,TR VIS POR,NO VIS CUT,TR V SLO STRMG CUT,LT YEL GRN CUT FLOR, LT YEL GRN FLOR ON MUD SAMPLE @ 6160-70',TR FNT LT YEL GRN MASS CUT OF WASHED SAMPLE

W 8.9 V 43 F 8.6 FC 2
PV 13 YP 7 PH 11.2
DS TR SOL 4.7 CL 3100

SLTST:LT-MED GY,FRM-HD, BLKY,TR SBFIS,TT,DNS,WELL SRTD,OCC SL SDY,10-50% CEMENT IN SAMPLES,OCC LT YEL GRN FLOR ON MUD/UN-WASHED CUTTINGS SAMPLES

CLY:DK BRN,OCC MED GY,SFT STKY,OCC SL FRM,W HYD,WTR SOLB,SL GRTY IN PT

SS:LT GY, M HD, W CMT, VF F GR, SBANG-SBRND, PRED CL-FROS QTZ, OCC LITH FRAGS, SL CALC, OCC FREE CALC, W SRTED, NO CUT

SLTST: DK GY, HD, SBFIS, OCC SILTY, V SL CALC, SLO DULL GOLD CUT FLOR, LT AMB VIS CUT

SVY AT 6331' ½° S 6 E

SLTST:M GY,DK GY, MAS,FM-HD & CAKC, GRDG IP TO SDY SLTST.

SS:LT-M GY,PRED V FN-FN, OCC M, SB ANG-SB RD, FM-HD & CALC, OCC KAOLIN,TR BIO,RARE DK BRN STRINGY INCL,FT YEL-WH CUT FLU IP, TR YEL FLU FREE OIL 6480'

CLY:LT-M GY,SFT, STICKY, EAS SOLU.

CALB CHROMATOGRAPH

W 8.8 V 37 F 7.6 FC 2
PV 12 YP 7 PH 11.0
SD ¼ SOL 3.3 CL 2000

C=34U AT 38 VIS
LAG=68MIN AT 144SPM

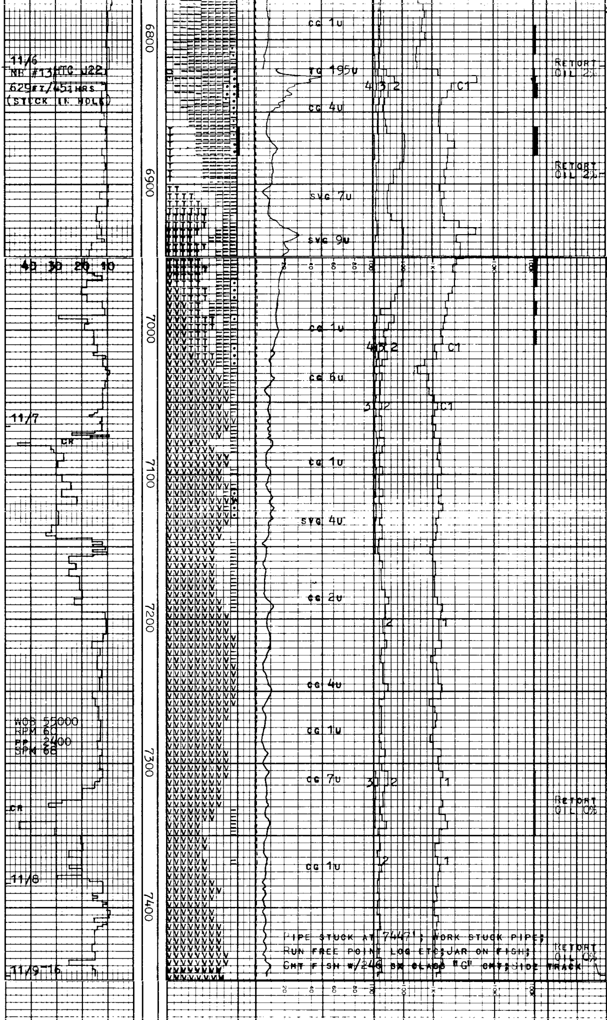
SVY AT 6580' 3/4° N57E

SLTST:LT-M GY,M-DK BRN, PRED MAS, FM-HD & CALC, GRDG IP TO HD POOR FISSIL DK BRN SH, OCC FT WH CUT FLU.

SS:LT GY,M GY,COM DK GNS, VFN-FN,RARE M,PRED SLTY, FM FRI- HD & CALC,GRDG TO SDY SLTST.

CLY: GY-WH, V SFT, F SOLB SL HYD, SILTY THRU

SH: DK GY-BLK, HD, BLKY-FIS, OCC SLTY, SL CALC, RR OIL STN, OCC SLO YEL-GRN CUT FLOR



PIPE STUCK AT 7447'; WORK STUCK PIPE; RUN FREE POINT LOG ETC; JAR ON FISH; CMT FISH W/246 SX CLASS "G" CMT; SIDE TRACK

SLTST: LT-DK GY, FRM-HD, SB FIS, FRI, OCC BLKY, SL CALC

LS: TAN, LT-M GY, MAS, HD & BRITTLE, V SILTY, IMPURE.

SS: LT-M GY, V FN-OCC M, HD, TAN ANG SHARDS IN FN & CALC TUFFACEOUS MATRIX. TR LT YEL FLU OIL - PROB CONTAM FROM TRIP.

NOTE: EPAL ADDED TO MUD. 66% ALCOHAL 34% REFINED OIL. YIELDS WHITE CUT FLOR

SVY AT 6886' $1^{3}/_{4}$° N45E

TUFF: DK GY, FRM- M HD, OCC LOC CALC, COM CHL, TR PYRITE, V SLTY.

CLY: WH- LT GY, SOFT, W/ ABD VOLC ASH.

SVY AT 6951' 2° N42E

SLTST; GY BRN, MAS - FN LAM, FN- HD, COM LAYERS FN TUFF.

VOLC BRECCIA: GY, GY BRN, FRM-HD, COM VITRIC SHARDS, CHL, MAS, CALC IP, TUFFACEOUS IN PART.

CLY: WH, LT GY, SOFT, ABD VOLC ASH.

CL^- INC F/2200-3500PPM.

SVY AT 7044' 1½° N49E

W 8.9 V 110 F 10.0 FC 2
PV 13 YP 18 PH 10.8
SD ¼ SOL 4 CL 3500PPM

VOLC BRECCIA: GY, GRN, WH, COM FRM, VITRIC SHARDS, AUG, CHL, MICA, OCC CALC.

C=12U AT 110 VIS
LAG= 63 MIN AT 137SPM

CLAYS: WH, TAN, TR R, SOFT, COM AS MATRIX IN BRECCIA MATERIALS.

TR CALC VEIN MATERIALS, WH, GRAN- MAS, FRM, W/ VOLC BRECCIAS.

POOR SMPLS F/ SHAKER

CLY: WHITISH, LT GY, SOFT, V EAS SOLU.

SVY 7290' 2° N48E

VOLC BRECCIA: PRED GY, FRM, COM VITRIC SHARDS, CHL, ABD MAFICS, V CLAYEY.

C=26U AT 50 VIS
LAG= 74 MIN AT 140 SPM

LOG NOTATION:

ORIGINAL HOLE DRILLED
FROM 99' TO 7447'
SIDETRACK NO. 1
DRILLED FROM 6943'
TO 11,330'