EXPLORATION LOGGING

A GEOLOGICAL - ENGINEERING SERVICE

REMARKS

LLING CONTRACTOR: RINKERHOFF-SIGNAL — RIG NO.: 53

JD DATE: APRIL 17,1979

'E MUDS:
EL BASED : 0'- 2798'
IGNOSULFONATE: 2798'-TD

CASING RECORD

0" AT 666' AT 9⅝" AT 7019'

3½" AT 2000' AT

HOLE SIZE

6" TO 666' TO 12¼" TO 7052'

7½" TO 2000' TO 8½" TO 10412'

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 CL-
LAT	LOGGED AFTER TRIP	R	RESISTIVITY OF MUD
TG	TRIP GAS	RF	RESISTIVITY MUD FILTRATE
CG	CONNECTION GAS		
C	CARBIDE		
DST	DRILL STEM TEST		
]	DST INTERVAL		
▮	CORE INTERVAL		

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.

COMPANY: MOBIL OIL CORPORATION

WELL: "IRA BAKER" NO. 1

FIELD: WILDCAT

LOCATION: FR NE COR 1082' S & 2537' W SEC 28, T15S-R3W, WB&M

COUNTY, STATE: LINN, OREGON

AFE

~~API~~ WELL INDEX NO. 9064

ELEVATION: 340' (G.L.) 363 KB

DATE FROM 4/24/79 TO 8/21/79

DEPTH FROM 666FT. TO 10,412FT.

UNIT NO. 34

LOGGING GEOLOGISTS: BILL ALTER, HARRY PROCTOR, DOUG CRAIG

LITHOLOGY SYMBOLS

DOLOMITE · GYPSUM AND ANHYDRITE · SALT · COAL AND LIGNITE · CLAY · SHALE · SILTSTONE · SANDY SILTST. · SAND · CONGLOMERATE · CHERT · VOLCANICS · INTRUSIVE · BASALT

EXPLORATION LOGGING — A DIVISION OF BAKER INTERNATIONAL

RILLING RATE AND DATA
FT/HR
MIN/FT
VISUAL POROSITY
SD. FAIR R.
ORE TEST

DEPTH

LITHOLOGY

OIL: TRACE, GD. TRACE, FAIR, GOOD, V. GOOD

DRILLING MUD

CONTINUOUS DITCH GAS
OIL IN MUD: TR. x; FAIR xx; GD. xxx
TOTAL GAS ____ (BACKUP SCALE = 10X)
PETROL VAP ____ ____
20 40 60 80 100

CHROMATOGRAPHIC ANALYSIS
METHANE ____ BUTANES ____4____
ETHANE ____2____ PENTANES ____5____
PROPANE ____3____ M=1000
100 1M PPM IN AIR 10M 60M

CUTTINGS
CUT: FAIR, GOOD
GAS
TOTAL GAS ____ (BACKUP SCALE = 10X)
PETROL VAP ____ ____
20 40 60 80 100

REMARKS AND LITHOLOGY DESCRIPTION

100 75 50 25

#2 SEC S4 11 2¾"
40+1/33½HRS
24

B 20000
M 120
1 1500

600
700
800
900

NITROGEN .....
CARBON DIOXIDE -.-.-.

C1

USING 100CM OF UNWASHED SAMPLE

SALINITY OF RIG WATER = 40PPM

SS LT GRY, GRY-GREEN, MOD HD-HD, F W/C CGL, GRNS OF SUBANG QTZ, CALC MTX, FIRM W/ COMA GRNS OF LT & DK GREEN PYROX/AMPHIB, ALSO TRS OF MICA IN PRTS

W 9.2 V 70 F 22
FC 2 PH 9 CL 950
%SOL 5 OIL 0

SS GRY-GREEN, F MOD HD SBEC FRIAB IN PRTS, SL TRS OF GREEN COMP TUFF MUDST INTERBEDD W/ SS

CLY:M GY-BLGY SFT, MOD COHES, W HYDR, CONTNG SD AS ABOVE.

SS:LT-M GY, MOD HD, FR PR-MOD CONSOL, CALC CMT:PRED VF-F GR, CLR-WH, SBRD-SBANG QTZ/SMI FLD, TR DK GN MNRLS,

SD AS ABOVE.

SS:LT-M GY,MOD HD,FRI PR-MOD CONSOL,CALC CMT:PRED VF-F GR,CLR-WH,SBRD-SBANG QTZ/SME FLD,TR DK GN MNRLS, OCC CALC VNS.

C = 10U AT 49VIS
LAG=25MIN/57SPM

SURVEY = 0°00'

CLY:GY-BLGY,SFT,W HYDR,SOLU,CONES.

LIGNITE:BLACK,HD, WOODY TEXTURE;CALC & PYR VNS.

VOLC:TUFF,LT GY,LT BN,REDBN,BLGN,SFT-MOD HD,FM,SME,W HYDR COM VOLC LITH FRAGS.

VOLCS,GREEN,BLU-GREEN GRY,MOD HD,VF COMP PRED TUFF/COM DK GREEN PYROXENE CLASTS

VOLCS,PYROCLASTIC TUFFS,DK GREEN,MOTTD BRWN,CONSIS OF ANG VOLC ROCK FRAGS&XTLN AMPHIB&PYROX,ALSO TRS OF FLOW LINES&GLASS SHARDS, NONCALC.

W 9.2 V 40 F 25
FC 2 PH 8.8 CL 1850
SOL 7% OIL 0

VOLC SD:LT GY-GYGN, BN,UNCONSOL,PRED F-CSE BASALTIC & TUFF GRS,SBRD-SBANG,OCC RD VCSE GRS.

0°30' AT N28°W

VOLC TUFF:LT GN-GYGN, BLUGN,WTHRD SFT-MOD HD,CALC,SME CHLORITIC SME WTHRD TOCLAY;SD: PRED F-C GR,SBANG TUFF/COM BSLT,SCATT LIGN,PYR.

VOLCS,GREEN-GRY,ORT, MOTTLD VAR COL,MOD HD,BLKY,NONCALC,SS LT GRY,GRY-GREEN VF-F COSIS OF REWORKED TUFF FRAGS,ARKOSIC, LOC SL CALC,COM MICA(MOD TITE,V PRLY SRTD

CLY DK BRN AMOR STKY STIFF W/ CHOC BAN,PR SRTD,DIRTY SLTSTN GRITTY IN PRTS FRM, BLKY,NONCALC,MICAC,

W 10.0 V 46 F 20
FC 2/32 PH 9.0

CG 7U
CG 15U
CG 50U
CG 38U
CG 4U
CG 100U
CG 16U
X4
CG 28U
CG 2U
TG 136U
X2
X2
C1
CG 15U

B#3 SMITH DSJ
90FT/22½HRS

M 110
B 20000
1100

900
1000
1100
1200
1300
1400
1500
1600
1700

25

N 110
B 20000
1 1100

28
SET 13⅜" CASING
AT 2000FT
ILLING 12¼" HOLE
B#5 REED 12J
FT/4±HRS
2
00 75 50 25
B#6 REED V12J
58FT/10HRS
4
B 20000
N 120
1500
B#7 SEC M4HN
8FT/42 HRS
75

1700
1800
1900
2000
2100
2200
2300
2400

CG 15U
CG 30U
TG 640U
TG 1080
TG 440
C1
TG 290
CG 45U
CG 25U
CG 33U
CG 92U
CG 240

50 100 1M 10M 50 100

CLY, DK BRN AMOR STKY, TFF W/ CALC BAN, PR SRTD, DIRTY SLTST, GRITTY IN PRTS FRM, BLKY, NONCALC, MICAC,

W 10.0 V 46 F 20
FC 2/32 PH 9.0
S 2650PPM SD ½
SOL 8% OIL 0

CONGL: SLTY-PBL SIZE IN M GY, STICKY W HYD, SOLU CLY; PBLS INCLU GY, VF-F GR CALC CMTD SS, GY-GYBN BN MOD HD SLTST SME POSS TUF, COM WH-LT GN TUFF.

C = 23U AT 50 VIS
LAG = 45½MIN/59SPM

SS, WH, LT GRY, CRYPTO-XTLN-VF V HD, V TITE, REXTLD MTX W/SEC QTZ VNG, ALSO ABDT SULPHDS SUCROSIC TEXT, NONCALC

VOLCS, LT GREEN, COMP, PYROX, DETRITAL, GRNS, W/LOCAL ARG/ASH(?) BNDS GRDG TO TUFF SS -V HD, COMP, SILIC

RUN SCHLUMBERGER :
DIL, FDC-CNL, SONIC, GR, MIC-PROX, SWS

VOLC, TUFF, WH, LT GRY, GRY-GREEN, HD, BLKY, SDY LIG, BLK, MOD HD, BRIT,

DST#1 (2000-2110FT.)
SEE ATTATCHED SHEET.

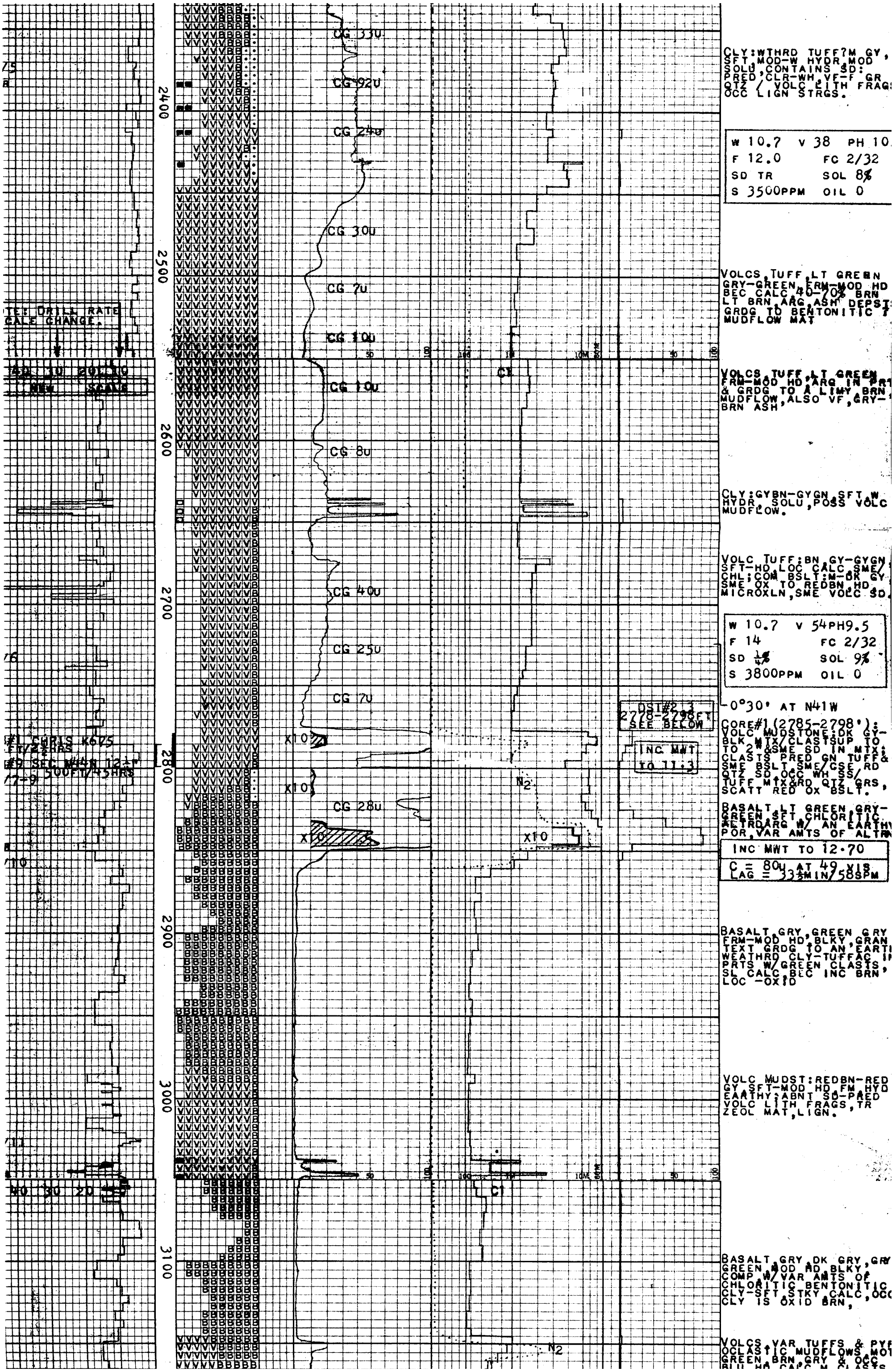
VOLC SDY TUFFS, WH, LT GRY-GREEN, HD LOC WEATHRD SFT-UNCONS-VF-F GRNS OCC HD, DK GRY BASALT, THIN BNDS OF ARG TUFFS, SFT/STKY

0°45' AT S78W

VOLC, LT GRY, GRY-GREEN V HD, XTLN, TUFFS-POSS CHLORITIC, GRNS, GRITTY V TITE, ALSO DK, GRY & GREEN, M-C, SILIC VOLC BASALT/DACITE, V HD LIG, BLK, MOD HD, VITR

CLY: WTHRD TUFF? M GY, SFT, MOD-W HYDR, MOD SOLU, CONTAINS SD: PRED, CLR-WH, VF-F GR QTZ / VOLC, WITH FRAGS OCC LIGN STRGS.

W 10.7 V 38 PH 10.
F 12.0 FC 2/32
SD TR SOL 8%



CLY:WTHRD TUFF?M GY, SFT,MOD-W HYDR,MOD SOLU,CONTAINS SD: PRED,CLR-WH,VF-F GR QTZ / VOLC LITH FRAGS OCC LIGN STRGS.

W 10.7	V 38	PH 10.
F 12.0		FC 2/32
SD TR		SOL 8%
S 3500PPM		OIL 0

VOLCS,TUFF,LT GREEN GRY-GREEN,FRM-MOD HD BEC CALC,40-70% BRN LT BRN,ARG,ASH DEPSTS GRDG TO BENTONITIC ? MUDFLOW MAT

VOLCS,TUFF,LT GREEN FRM-MOD HD,ARG IN PRT & GRDG TO A LIMY,BRN MUDFLOW,ALSO VF,GRY-BRN ASH

CLY:GYBN-GYGN,SFT,W HYDR, SOLU,POSS VOLC MUDFLOW.

VOLC TUFF:BN,GY-GYGN SFT-HD,LOC CALC SME/ CHL;COM BSLT:M-DK GY SME OX TO REDBN,HD MICROXLN,SME VOLC SD.

W 10.7	V 54	PH 9.5
F 14		FC 2/32
SD ¼%		SOL 9%
S 3800PPM		OIL 0

0°30' AT N41W

CORE#1(2785-2798'): VOLC MUDSTONE:DK GY-BLK MTX/CLASTSUP TO TO 2" &SME SD IN MTX; CLASTS PRED GN TUFF & SME BSLT,SME/CSE,RD QTZ SD OCC WH SS/ TUFF MTX&RD QTZ GRS, SCATT RED OX BSLT.

BASALT,LT GREEN GRY-GREEN,SFT,CHLORITIC, ALTRD ARG W/ AN EARTHY POR,VAR AMTS OF ALTRD

INC MWT TO 12.70

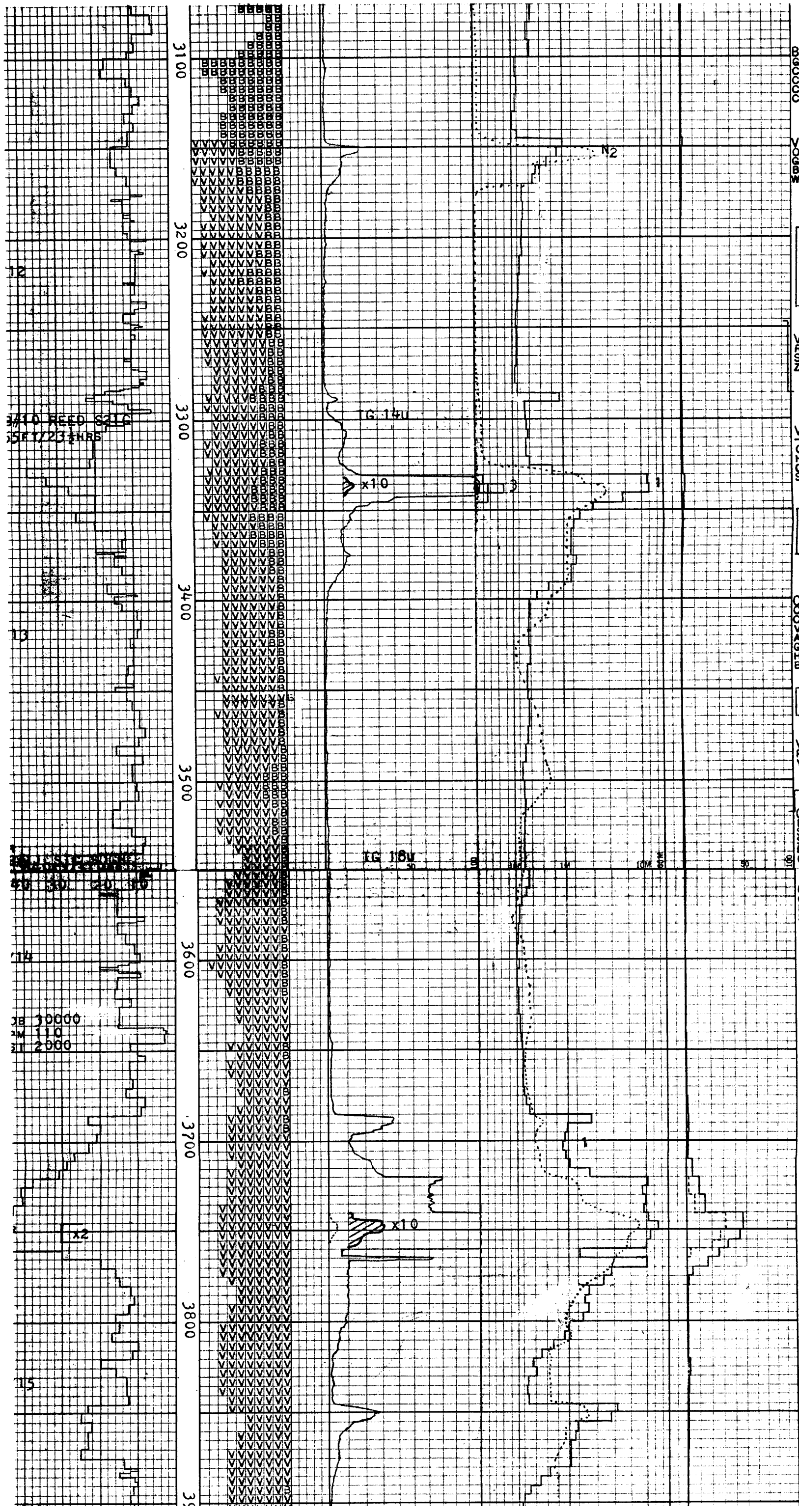
C = 80u AT 49 VIS
LAG = 33½MIN/58SPM

BASALT,GRY,GREEN GRY FRM-MOD HD,BLKY,GRAN TEXT GRDG TO AN EARTH WEATHRD CLY-TUFFAC I PRTS W/ GREEN CLASTS, SL CALC,BEC INC BRN LOC -OXID

VOLC MUDST:REDBN-RED GY,SFT-MOD HD,FM,HYD EARTHY;ABNT SD-PRED VOLC LITH FRAGS,TR ZEOL MAT,LIGN.

BASALT,GRY,DK GRY,GRY GREEN,MOD HD,BLKY, COMP W/VAR AMTS OF CHLORITIC BENTONITIC CLY-SFT,STKY CALC,OCC CLY IS OXID BRN,

VOLCS,VAR TUFFS & PYR OCLASTIC MUDFLOWS,MOT GREEN,BRN,GRY & OCC



BASALT, GRY, DK GRY, GRY GREEN, MOD HD, BLKY, COMP W/ VAR AMTS OF CHLORITIC BENTONITIC CLY-SFT STKY CALC, OCC CLY IS OXID BRN,

VOLCS, VAR TUFFS & PYR OCLASTIC MUDFLOWS MOT GREEN BRN, GRY & OCC BLU, HD, CALC, M CLASTS W/ FLOW LINES/SHARDS

W 12.7	V 49 F 10
FC 2/32	PH 10.8
SD ½%	SOL 21%
S 7200PPM	OIL 0

VOLCS, LT-MED GRY-LT RED BRN, OCC GRN, HD-SFT, CLYS, SDY, MINOR ZEOL, TR LIG

1°00' AT

VOLC, CONT A/A GEN LT-MED GRY-RED BRN W/ OX ON SURF, MOD FRM-HD, COM SFT, OCC MOD CALC, RR GLAS SHARDS, SDY

C = 28u AT 46v
LAG=49MIN/58SPM

CLY: M BN-GYBN, GY, SFT COHES, W HYDR, SOLU CONTAINS VF-F PRED VCOL VOLC SD; VOLC AS ABOVE: LT-M GY-GYBN, GYGN, REDBN, SFT-MOD, HD TUFF/MUDSTONE, SME BSLT, SCATT ZEOL, LIGN.

W 12.7 V 48

VOLC, LT-MED GRY-GRN, PRED, RED BRN, MOD HD, V SFT, BLKY, SDY, TUF

1°00' AT S84W

CLY: MED GRY-PRED RED BRN, FRM, STKY, MOD HYD, SOL, CONTAINS VC-PBL SIZE, VCOL VOLC FRAGS PRED, TUFF W/ OCC DK GRY BASALT, SDY

CLY: RED-REDBN SFT, COHES, HYDR, MOD SOLU, NON CALC; TUFF MUDST: SFT-MOD HD, FM, RED-REDBN OX, MNR GY-GYGN BSLT FRAGS, LIGN.

W 12.8	V 46 F 7.6
FC 2/32	PH 10.8
SD 3/4%	SOL 20%
S 7600PPM	OIL 0

VOLC LT-MED GRY-PRED RED BRN, MOD HD-SFT, CONTAINS MUDSTONE, OCC ZEOL, TR LIGN IN SFT-FRM, SOL, MOD HYD, STKY RED CLAY

VOLC, GEN A/A CONT MED GRY-RED BRN, MOD FRM, OCC BRIT, BLKY, INCR AMT VOLC SAND, LSE IN SFT, SOL CLY MTX, COM WTHRD WELDED TUFF

W 12.9 V 54

CLY: BN-GYBN, SFT, HYDR, SOLU/ PRED LT-M GY-GYBN TUFF MUDST: SFT-MOD HD, COM SMALL ANG INCL, SME CHL ZEOL; SD: VF-F GR VCOL VOLC LITH.

CLY: REDBN, SFT, W HYDR, MOD SOLU, CONTAINS VF-F GR ANG, VOLC LITH FRAGS, DECR IN FM MUDST:

W 12.8	V 57 F 8.0
FC 2/32	PH 11.0
SD 1%	SOL 24%
S 6500PPM	OIL 0

SD:VF-F GR VCOL VOLC LITH.

CLY:REDBN,SFT,W HYDR, MOD SOLU,CONTAINS VF-F GR ANG,VOLC LITH FRAGS,DECR IN FM MUDST.

W 12.8	V 57	F 8.0
FC 2/32		PH 11.0
SD 1%		SOL 24%
S 6500PPM		OIL 0

VOLC,MED-DK GRY-RED BRN,OCC LT GRY-GRN GRY,V SFT-MOD HD,COM ZEOL INCL,WTHRD TUFF SDY,CONT SL TR LIG

VOLC,CONT A/A MED GR-RED BRN,INCR AMT LT GRY-GRY GRN BLKY TUF, SD:VCOL,F GRN VOLC

C = 7U AT 53 VIS
LAG=55MIN/60SPM

VOLC,LT-MED GRY-RED BRN,OCC LT GRY GRN, V SFT-MOD FRM,VOLC TUFF W/OCC WTHRD BST

W 13.0	V 45	F 8.0
FC 2/32		PH 11.0
S 6300PPM		SD 1½%
SOL 23%		OIL 0%

VOLC,GEN A/A CONT LT-MED GRY-RED BRN,SFT-MOD FRM,OCC HD,SL TR LIG IN FRM,STKY, MOD SOL RED CLAY

1°15' AT S85W

TG 4u

CLY:MED RED BRN,RR LT-MED GRY,SFT-FRM PRED FRM,SL-NON CALC, OCC SLTY,TEX

W 13.1 V 45

VOLC,VCOL,PRED MED RED BRN,SFT-HD,PRED FRM,OCC FRIB,BLKY,SL ARG,TR LIG,RR EU HED PYROX XTLS,SCAT RED WTHRD BASALT

CLY:PRED MED RED BRN, SFT-PRED FRM,MOD W HYDR,SOL,NON CALC

VOLC,LT-MED GRY-RED BRN,OCC LT GRY GN, SFT-MOD FRM,BLKY,TR LIG,TR WTHRD BSLT

C= 23U AT 44VIS
LAG=75MIN W/60SPM

TUFF: LT GY/GRN,RED/BRN,SL FIRM-MOD,HD; WTHRD; RARE-OCC SD: CL-CLDY,FN GR QTZ, LOOSE, SUBRND

MINOR BASALT: MED GY DK GY, MOD HD, WELL WTHRD

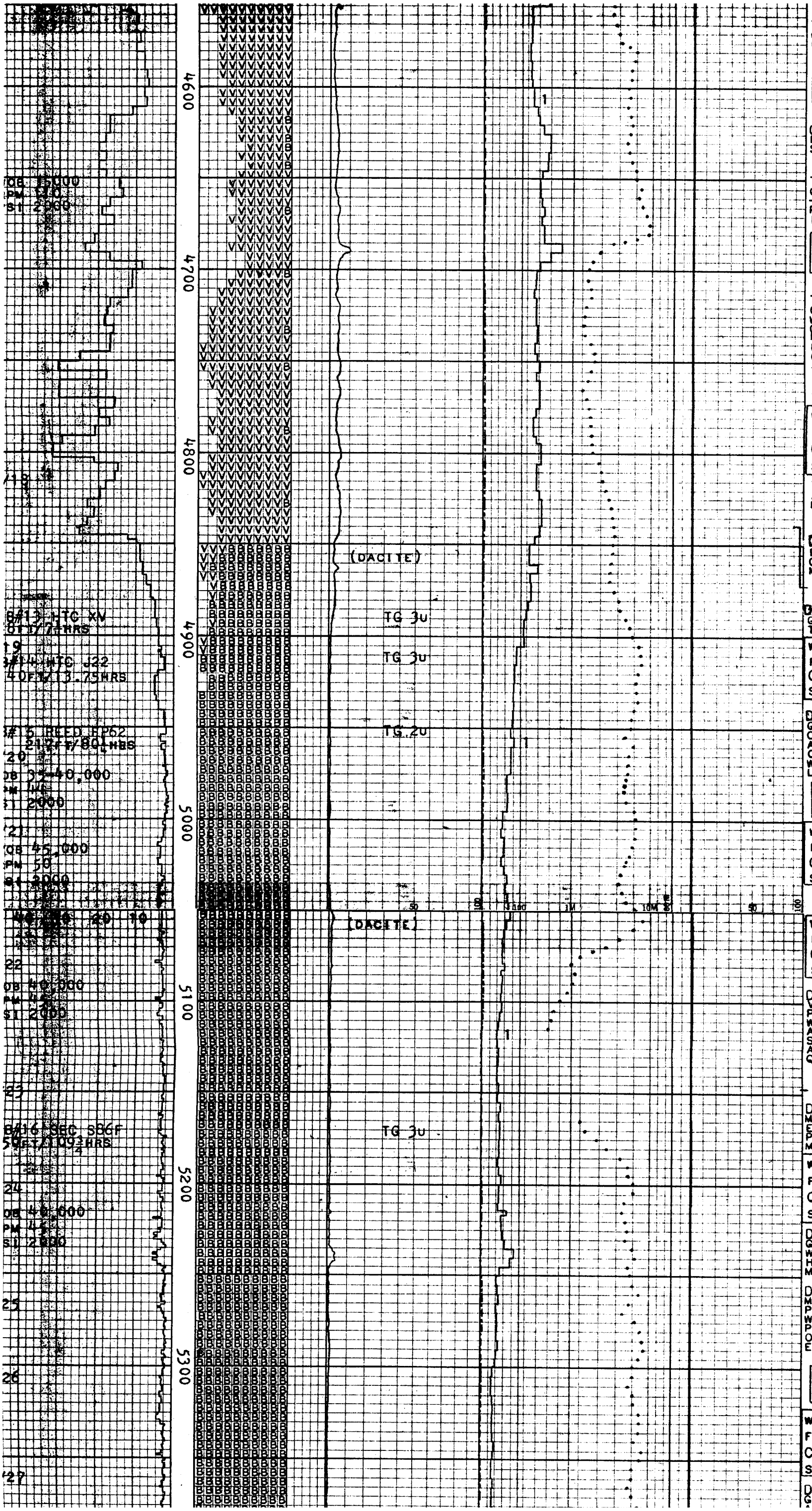
CLYST: IN VARYING AMTS, RED/BRN, SL FIRM, INTERB W/ TUFF AS ABV

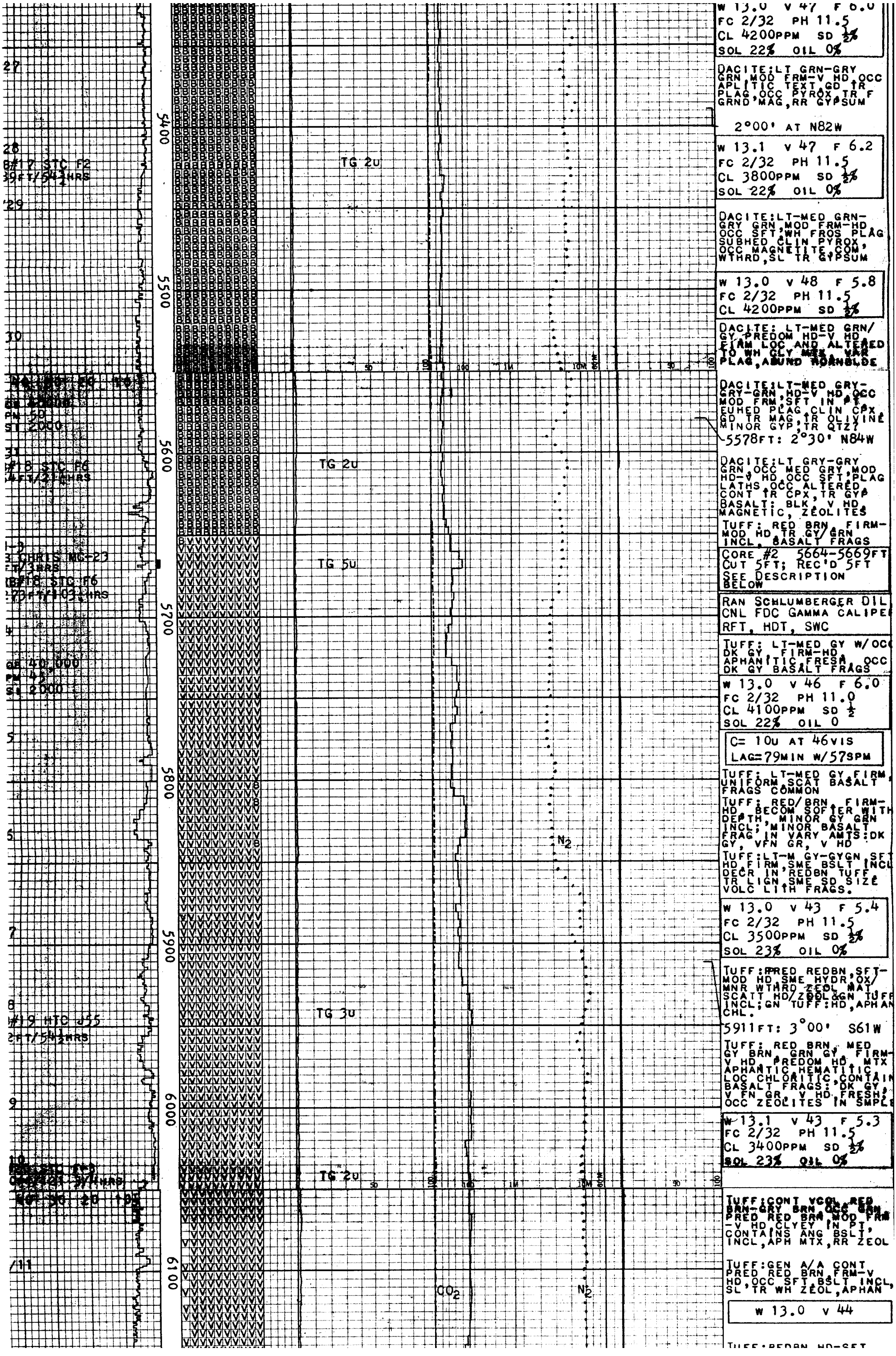
TUFF: LT-MED GY/GRN, RED/BRN,SFT-MOD HD, PREDOM FIRM, WTHRD; SCAT BASALT FRAG THRUOUT

W 13.1	V 45	F 8.0
FC 2/32		PH 11.0
CL 5000PPM		SD 1½%
SOL 22%		OIL 0%

TUFF:LT GRY-LT GRY GN COM RED BRN MOD FRM-SFT,WELDD IN PT, BLKY,TR GYP,TR LIG

W 13.1 V 46


4600
4700
4800
4900
5000
5100
5200
5300
(DACITE)
TG 3U
TG 3U
TG 2U
(DACITE)
TG 3U
50
100
1M
10M
OB 15000
PM 50
SI 2000
#12 HTC XV
HRS
#14 HTC J22
3.75HRS
#5 REED FP62
HRS
OB 45,000
PM 50
SI 2000
OB 40,000
SI 2000
#16 SEC S86F
HRS
OB 40,000
PM 45
SI 2000
TUFF: LT GRY-LT GRY GN, COM RED BRN, MOD FRM-SFT, WELDD IN PT, BLKY, TR GYP, TR LIG
W 13.1 V 46
CLY: CONT LT-MED GRY, PRED RED BRN, SL-MOD SOL, SFT-V FRM, STKY
TUFF: GEN A/A PRED LT GRY-BRN, SL WELDD, FRM-MOD SFT, CLIN PYROX PHENCSTS, TR LIG, GD TR IDOCRASE?
C = 17U AT 46 VIS
LAG=82MIN/60SPM
TUFF: LT GRN, LT GY/GRN, SL FIRM-MOD HD, WTHRD; MINOR RED/BRN CLYST: SOFT-FIRM, MINOR CALCITE LOC OCC BASALT FRAG, DK GY, DK GRN, HD
TUFFACEOUS CLY: LT GY/GRN, FIRM; MINOR MED BRN, RED/BRN CLY
W 13.1, V 49 F 8.5
FC 2/32 PH 11.0
CL 5000PPM SD 1½%
SOL 23% OIL 0%
TUFF: MED BRN, MINOR AMT BRN/RED, FIRM-MOD HD; CLY: MED BRN FIRM, MOD HD LOC, TUFFACEOUS
DACITE: LT GY/GRN, FN GR MOD HD-HD, CRYSTALLINE, MINOR MICA
1°15' AT S85W
DACITE: A/A CONT MED GY-GN, HD, BLKY, XTLN, TR CA, TR LIG
W 13.0 V 45 F 5.6
FC 2/32 PH 11
CL 5500PPM SD 1½%
SOL 23% OIL 0%
DACITE: LT GY, LT GY/GRN, OVERALL LT GRN CAST, HD-V HD, XTLN, ABUND HORNBLEND THRU OUT, PLAGIO CRYSTALS WTHRD IN PLACES TO LT GY, MOD HD
C= 9U AT 48VIS
LAG= 79MIN. W/60SPM
W 13.0 V 45 F 7.8
FC 2/32 PH 11.5
CL 4300PPM SD 1%
SOL 21% OIL 0%
W 13.0 V 47 F 7.0
FC 2/32 PH 11.5
CL 4800PPM SD 1%
SOL 22% OIL 0%
DACITE: LT GRN/GY, V HD, FN-MED GR ABUN PLAG, AND HORNBLEND, WITH SOME QTZ, MINOR AMT MAGNETITE, IN SOME SMPLES, MINOR AMT VEINS FILLED W/ QTZ
2°0' AT S54W
DACITE: A/A CONT LT-MED GRN, OCC DK GRN EUHED PLAG W/RR CLIN PYROX XTLS, MINOR QTZ, MINOR HORNBLEND
W 13.0 V 45 F 6.3
FC 2/32 PH 11.6
CL 4300PPM SD 3/4%
SOL 22% OIL 0%
DACITE: LT-MED GRN-GRY GRN, HD-MOD FRM WH FROS PLAG, BLK EUHED MAG XTLS, CONT MINOR QTZ, TR GYPSUM
DACITE: A/A CONT LT-MED GRN-GRY GRN, OCC PRED LT GRN WHEN MOD WTHRD, MOD FRM-V HD, PHENCRSTS OF PLAG W/ OCC PYROX, F-M GRND, EUHED IN PT, TR MAG
C= 10U AT 47VIS
LAG=75MIN W/54SPM
W 13.0 V 47 F 6.0
FC 2/32 PH 11.5
CL 4200PPM SD ½%
SOL 22% OIL 0%
DACITE: LT GRN-GRY GRN, MOD FRM-V HD, OCC


5400
5500
5600
5700
5800
5900
6000
6100
TG 2U
TG 5U
TG 2U
TG 3U
TG 2U
N2
CO2
N2
50
100
1M
10M
80M
100
27
28
29
30
31
#17 STC F2
39FT/5¾HRS
#18 STC F6
4FT/21¼HRS
I-9
CHRIS MC-23
T/3HRS
#18 STC F6
7DFT/10¾HRS
#19 HTC J55
2FT/5¼HRS
2
3
4
5
6
7
8
9
10
11
DA 40,000
PM 45
ST 2000
W 13.0 V 47 F 6.0
FC 2/32 PH 11.5
CL 4200PPM SD ½%
SOL 22% OIL 0%
DACITE:LT GRN-GRY GRN,MOD FRM-V HD,OCC APLITIC TEXT,GD TR PLAG,OCC PYROX TR F GRND'MAG,RR GYPSUM
2°00' AT N82W
W 13.1 V 47 F 6.2
FC 2/32 PH 11.5
CL 3800PPM SD ½%
SOL 22% OIL 0%
DACITE:LT-MED GRN-GRY GRN,MOD FRM-HD OCC SFT,WH FROS PLAG SUBHED CLIN PYROX, OCC MAGNETITE,COM, WTHRD,SL TR GYPSUM
W 13.0 V 48 F 5.8
FC 2/32 PH 11.5
CL 4200PPM SD ½%
DACITE: LT-MED GRN/GY,PREDOM HD-V HD FIRM LOC AND ALTERED TO WH CLY MTX, VAR PLAG,ABUND HORNBLDE
DACITE:LT-MED GRY-GRY-GRN,HD-V HD,OCC MOD FRM,SFT IN PT, EUHED PLAG,CLIN CPX, GD TR MAG,TR OLIVINE MINOR GYP,TR QTZ?
5578FT: 2°30' N84W
DACITE:LT GRY-GRY GRN,OCC MED GRY,MOD HD-V HD,OCC SFT,PLAG LATHS,OCC ALTERED CONT TR CPX,TR GYP BASALT: BLK, V HD, MAGNETIC, ZEOLITES
TUFF: RED BRN, FIRM-MOD HD,TR GY/GRN INCL, BASALT FRAGS
CORE #2 5664-5669FT
CUT 5FT; REC'D 5FT
SEE DESCRIPTION BELOW
RAN SCHLUMBERGER DIL CNL FDC GAMMA CALIPER RFT, HDT, SWC
TUFF: LT-MED GY W/OCC DK GY, FIRM-HD, APHANITIC, FRESH, OCC DK GY BASALT FRAGS
W 13.0 V 46 F 6.0
FC 2/32 PH 11.0
CL 4100PPM SD ½
SOL 22% OIL 0
C= 10U AT 46VIS
LAG=79MIN W/57SPM
TUFF: LT-MED GY,FIRM, UNIFORM,SCAT BASALT FRAGS COMMON
TUFF: RED/BRN, FIRM-HD, BECOM SOFTER WITH DEPTH, MINOR GY GRN INCL; MINOR BASALT FRAG IN VARY AMTS:DK GY, VFN GR, V HD
TUFF:LT-M GY-GYGN SFT HD FIRM,SME BSLT INCL DECR IN,REDBN TUFF TR LIGN,SME SD SIZE VOLC LITH FRAGS.
W 13.0 V 43 F 5.4
FC 2/32 PH 11.5
CL 3500PPM SD ½%
SOL 23% OIL 0%
TUFF:PRED REDBN,SFT-MOD HD,SME HYDR OX/ MNR WTHRD ZEOL MAT SCATT HD/ZEOL&GN TUFF INCL;GN TUFF:HD,APHAN CHL.
5911FT: 3°00' S61W
TUFF: RED BRN, MED GY BRN, GRN GY, FIRM-V HD, PREDOM HD, MTX APHANTIC,HEMATITIC, LOC CHLORITIC,CONTAIN BASALT FRAGS: DK GY, V FN GR, V HD, FRESH; OCC ZEOLITES IN SMPLS
W 13.1 V 43 F 5.3
FC 2/32 PH 11.5
CL 3400PPM SD ½%
SOL 23% OIL 0%
TUFF:CONT VCOL RED BRN-GRY BRN,OCC GRN PRED RED BRN,MOD FRM -V HD,CLYEY IN PT, CONTAINS ANG BSLT, INCL,APH MTX,RR ZEOL
TUFF:GEN A/A CONT PRED RED BRN,FRM-V HD,OCC SFT,BSLT INCL, SL TR WH ZEOL,APHAN
W 13.0 V 44
TUFF:REDBN HD-SFT

/11

/12

WOB 40000
RPM 50
PSI 2000

/13

/14

WOB 40000
RPM 55
PSI 2000

/15

/16
BIT #2 STC F-3
30FT/11½HRS

/17

WOB 40000
RPM 56
PSI 2000

/18

NOTE: CHANGE IN
DRILL RATE SCALE

/19

6100
6200
6300
6400
6500
6600
6700
6800

CO_2 N_2

TG 2u

INCL, APH MTX, RR ZEOL

TUFF: GEN A/A CONT PRED RED BRN, FRM-V HD, OCC SFT, BSLT INCL, SL TR WH ZEOL, APHAN

w 13.0 v 44

TUFF: REDBN, HD-SFT ORANGE, APHAN/INCL OF GY GN BSLT, TUFF: GY TUFF: MOD-V, HD, APHAN/ PRED SMALLER INCL OF M GY BSLT.

w 13.0 v 43 F 5.7
FC 2/32 PH 11.5
CL 3400 SD ¼
SOL 24% OIL 0%

3°00' AT N65W

TUFF: VCOL, PRED RED BRN-GRY BRN, OCC LT GRY, MOD FRM-V HD OCC SFT, PRED V HD, CLYEY WHEN WTHRD, COM ANG CLSTS BSLT, GEN APHAN MTX, SL TR LIG

w 13.1 v 44

TUFF: BREC MUDFLOW REDBN-RUST, BN, GYBN, GYGN, MOD-V HD, SME SFT PRED TUFF & BSLT CLASTS V SL TR PROBABLY RE-WORKED LT GY, F GR SS.

TUFF: RED BRN-GRY BRN, OCC LT GRY GRN, MOD FRM-V HD, COM BSLT CLSTS, APHAN MTX

C = 9u AT 44 VIS
LAG = 102 MIN/44 SPM

BASALT: MED-DK GRY, RR DK GRY-BLK, HD-V HD, ANG BLKY, GD TR OLIV, TR PYROX, TR PLAG?

w 13.0 v 45 F 5.6
FC 2/32 PH 11.5
CL 3300 SD ½
SOL 23% OIL 0%

TUFF: GEN A/A CONT PRED RED BRN-GRY BRN MOD FRM-V HD IN PT BASLT INCL, APHAN MTX

ANDESITE: LT-MED GRN-WH GRY, MOD FRM-V HD, EUHED-SBHED OPQ PLAG, .5-1MM, GRN CPX?, MAG

w 13.0 v 44 F 5.5
FC 2/32 PH 11.5
CL 3300PPM SD ½
SOL 23% OIL 0%

4°30' N34W

ANDESITE/DIORITE: OVERALL LT-M GY-WH, HD-V HD, FRESH, PRED CLR-WH PLAG/SCATT SPECKS GN AMPHIB(?), MAGN, FRAC/COM ZEOL VNS.

w 13.0 v 44

DIORITE: WH, LT-M GY, GYGN AS ABOVE, PRED WH PLAG/SL INCR IN GN MAT, COM LT GN-GYGN ANDES/GRAN TEXT: MOD-V HD, SME POSS WTHRD, BRITTLE, COM MAGN, TR CALC.

DIORITE: GEN A/A CONT WH GRY-GRY GRN, PRED WH OPQ PLAG, OCC CLR, MOD FRM-V HD, TR MAG,

TUFF: PRED RED BRN, OCC MED GRY, HD-MOD SFT, COM CLYEY, PLAG, SL TR OL, SFT ZEOL

5°00' AT N30W

TUFF: LT-M GY-GYGN SFT -MOD HD, BRITTLE, SME CLAYEY, SME BREC, APPRS SL GRAN.

TUFF: A/A CONT MED RED BRN-MED GRY, MOD HD-HD, OCC SFT-FRM, BRIT, CLYEY, COM WTHRD

w 13.0 v 42 F 6.0
FC 2/32 PH 11.2
CL 3100PPM SD ½
SOL 24% OIL 0%

TUFF: MUDFLOW(?), BN-REDBN, SFT-MOD HD, FM, CLAYEY, HYDR, SME MOD SOLU, LOC CLASTS OF PRED, WTHRD VOLC.

4°45' AT N34W

TUFF: A/A RED BRN-BRN, OCC MED GRY, MOD HD-HD, COM SFT-FRM, CLYEY, V C INCL: MED GRY ZEO, BSLTIC, PLAG, OLIVINE?

w 13.3 v 40 F 6.0

4°45' AT N34W

TUFF: A/A RED BRN-BRN, OCC MED GRY, MOD HD-HD, COM SFT-FRM CLYEY, V C INCL: MED GRY ZEO, BSLTIC, PLAG, OLIVINE?

W 13.3 V 40 F 6.0
FC 2/32 PH 11.2
CL 3000PPM SD 3/4%
SOL 24% OIL 0%

TUFF: PRED RED BRN-BRN, OCC LT-MED GRY, MOD FRM-HD COM SFT, FRSH INCL OF CPX, OC, HORNBLND?, BSLT

5°00' AT N34W

TUFF: A/A CONT PRED RED BRN-BRN, PRED HD, COM SFT, INTBD W/ MED BRN-OCC GRY, FRM, MOD SOL, SLTY CLY, GD, TR LIG, TR PLAG, TR CPX

MUDST: GY BRN, FIRM VOLCANIC, GY/GRN INCL

7009FT: 4°45' AT N32W

W 13.1 V 41

RAN SCHLUM DIL SONIC FDC CNL GR, CBL GR, MICROLOG, RDT, SWC TO 7052FT

SET 9-5/8" CBG AT 7019FT. DRILL AHEAD 8½" HOLE.

C= 32U AT 60VIS
LAG=44MIN W/45SPM

VOLC BRECCIA: RED/BRN HD, W/GY GRN HD CLASTS IN RED BRN TUFF MATRIX; INTBD VOLC MUDST: MED GY, SOFT-FIRM; TR-MINOR ANDESITE: LT GRN, HD, FN GR, TR DIORITE: TR BASALT: DK GY, V HD, APHANITIC

7188FT: 6°00' S09W

ANDESITE: LT-MED BRN-MED GRY OCC LT GRY, MOD FRM-V HD, SFT IN PT, INCL OF PLAG, CPX? OCC VN GYP, TR DK BSLT

W 13.1 V 45 F 5.6
FC 2/32 PH 11.5
CL 3400PPM SD ¼%
SOL 24% OIL 0%

VOLC BRECCIA: MED GY, HD, MED-DK GY INCL IN MED GY MATRIX, RARE CRYSTALS; ABUND TUFF: MED GY, HD, TR GLASS INCL, FN GN-APHANITIC, BLKY BRITTLE IN PLACES

7284FT: 5°00' S25W

7251FT: 6°00' N84E

VOLC MICROBRECCIA: MED GY HD, PREDOM AS ABV; MINOR AMT VOLC MUDST MED GY, FIRM

VOLC MICROBRECCIA: PREDOM RED BRN MTRX W/ MED GY INCL, HD, WTHRD IN PART; ALSO VOLC MICROBRECCIA, MED GY AS ABV; SOME TUFF, RED BRN, HD; TR-MINOR BASALT: DK GY, V HD, V FN GR; MINOR-ABNT ANDESITE: LT GRN, FN GR, MOD HD

MINOR VOLC MUDST: RED BRN, SL HD-MOD HD

7390FT: 6°00' N37W

W 13.1 V 42 F 5.3
FC 2/32 PH 11.4
CL 4400PPM SD ¼%
SOL 23% OIL 0%

VOLC MICROBRECCIA: GRY GRY-GREEN W/ VAR COL ANG CLASTS, HB, BLKY LOC ABNT PURP TUFFS, MOD HD OCC FRM & ARG VOLC MUDST/TUFF, SFT, STKY, BENTONITIC

7458FT: 6°15' N40W

VOLC MICROBRECCIA: GRY GRY-GREEN W/ VAR COL ANG CLASTS COM DK GRY VOLC LITHIC FRAGS, 20% WELD TUFFS LT GRY, HD SOME ZEOL ALT TO PT GRY TUFF MDST & BENTN CLYS

7503FT: 6°30' N39W

7566FT: 6°30' N42W

C= 25U AT 45VIS
LAG= 49MIN W/46SPM

VOLC MICROBRECCIA, GRY GRY-GREEN, HD ANG LT GRY-GREEN CLASTS, INTBEDD W/ SFT TUFF MUDST GRY, WH LOC BENTONITIC BAS, DK GRY, HD, BLKY, VF

7662FT: 7°00' N39W

VOLC MICROBRECCIA: MED-DK BRN GY, MOD-V HD, CLASTS DK BRN; MUDST: RED BRN, SOFT-FIRM, BENT, WTHRD

VOLC MICROBRECCIA GRY

TG 2100
RECYCLE

#24 HUGHES J22
8FT/12½HRS

B 40,000
M 56
I 2000

B 35-40,000
M 56
I 2000

B 35,000
M 56
I 2000

B 35,000
W 50
I 2000

B 25,000
W 50
I 2000

#25 STC F3
OH 1/2 1/2 HRS

C WOB TO 40K

B 40,000
W 50
I 2000

B 35-38,000
W 60
I 2000

#26 STC F3
OH 1/66½ HRS

7600
7700
7800
7900
8000
8100
8200
8300
8400

TG 105u

CG 1u

TG 342u

VOLC MICROBRECCIA, GRY GRY-GREEN, HD ANG, LT GRY-GREEN CLASTS, INT BEDD W/ SFT, TUFF MUDST GRY, WH LOC BENTONITIC BAS, DK GRY, HD, BLKY, VF

7662FT: 7°00' N39W

VOLC MICROBRECCIA: MED-DK BRN GY, MOD-V HD, CLASTS DK BRN; MUDST: RED BRN SOFT-FIRM, BENT, WTHRD

VOLC MICROBRECCIA, GRY BEC INC BRN & MAROON, HD, BLKY W/ABNT GREEN VOLC LITHIC FRAGS, INT BEDD W/ SFT LT GRY, GRY BRN TUFF MUDST SFT STKY & BENTONITIC, LOC DK GRY COMP BAS, HD W/ POSS TR ZEOL VN

W 13.1 V 44 F 5.7
FC 2/32 PH 10.5
CL 3800PPM SD ¼
SOL 23% OIL 0%

VOLC MICROBRECCIA: DK BRN GY, PREDOM HD, W/ SOME BASALT FRAGS; MINOR WTHRD VOLC ASH AND DK BRN TUFF

7757FT: 7°15' N26W.

VOLC MUDST: RED BRN, MED BRN GY, SOFT-FIRM, BENTONITIC, MINOR LITH FRAGS

VOLC MICROBRECCIA: MED GY BRN, DULL RED BRN, HD, BLKY W/ANG EDGES, SOME DK GY BASALT INCL

VOLC MUDST: RED BRN, FIRM-SL HD, BENT, MINOR TUFF

VOLC MICROBRECCIA: DULL RED BRN MED GY BRN, PREDOM AS ABV

7894FT: 7°15' N40W.

MINOR ANDESITE: GRN GY, FN GR, HD, SOME ADHERING TO BRECCIA

7967FT: 7°30' N43W

VOLC TUFFS, GRY-BRN, BRN, HD, COMP, ANG, BLKY, LOC GRDG TO A LITHIC TUFF/MICROBRECCIA, BEC SILIC IN PRTS W/ OCC SEC QTZ, SOME RD-BRN CHOC TUFFACEOUS MUDST FRM-MOD HD, VF-ARG, SL TRS OF BAS

W 13.1 V 42 F 5.5
FC 2/32 PH 11.5
CL 3500PPM SD ¼
SOL 23% OIL 0%

MUDST: DULL RED BRN, SFT-FIRM, VOLC, BENT

VOLC MICROBRECCIA, GY BRN-GRY HD, COMP W/ GY GREEN ANG LITHIC INCL LOC GRDG TO A BRN TUFF ALSO GD TRS OF VF LSE SD COM ANG &XTLN OCC RND

8096FT: 8°00' N43W

C= 22U AT 45VIS
LAG= 51MIN W/46SPM

VOLC MICROBRECCIA AS ABV; TUFF: RED BRN FIRM, WHTRD; VOCL ASH

MUDST, RD-BRN, ORNGE, LT BRN SFT-FRM, SL CALC SUBFISS PELL

W 13.1 V 42 F 5.6
FC 2/32 PH 11.5
CL 3500PPM SD ¼

VOLC MICROBRECCIA, GRY BRN-GRY, HD, ANG, BLKY W/DK GREEN, LITHIC FR

TUFF: RED BRN, V HD, BLKY, WELDED, GLASSY INCLUSIONS; MINOR WTHRD ASH: LT PURP GY SOFT: INTERBD VOLC MICROBRECCIA; MED GY BRN, HD, GY GRN INCL

8263FT: 8°45' N50W

VOLC MICROBRECCIA, GRY LT GRY VAR COL V HD, SILIC, GRITTY, PA SRTD, BAS LITHIC FRAGS-ANG,

8°45' AT N50W

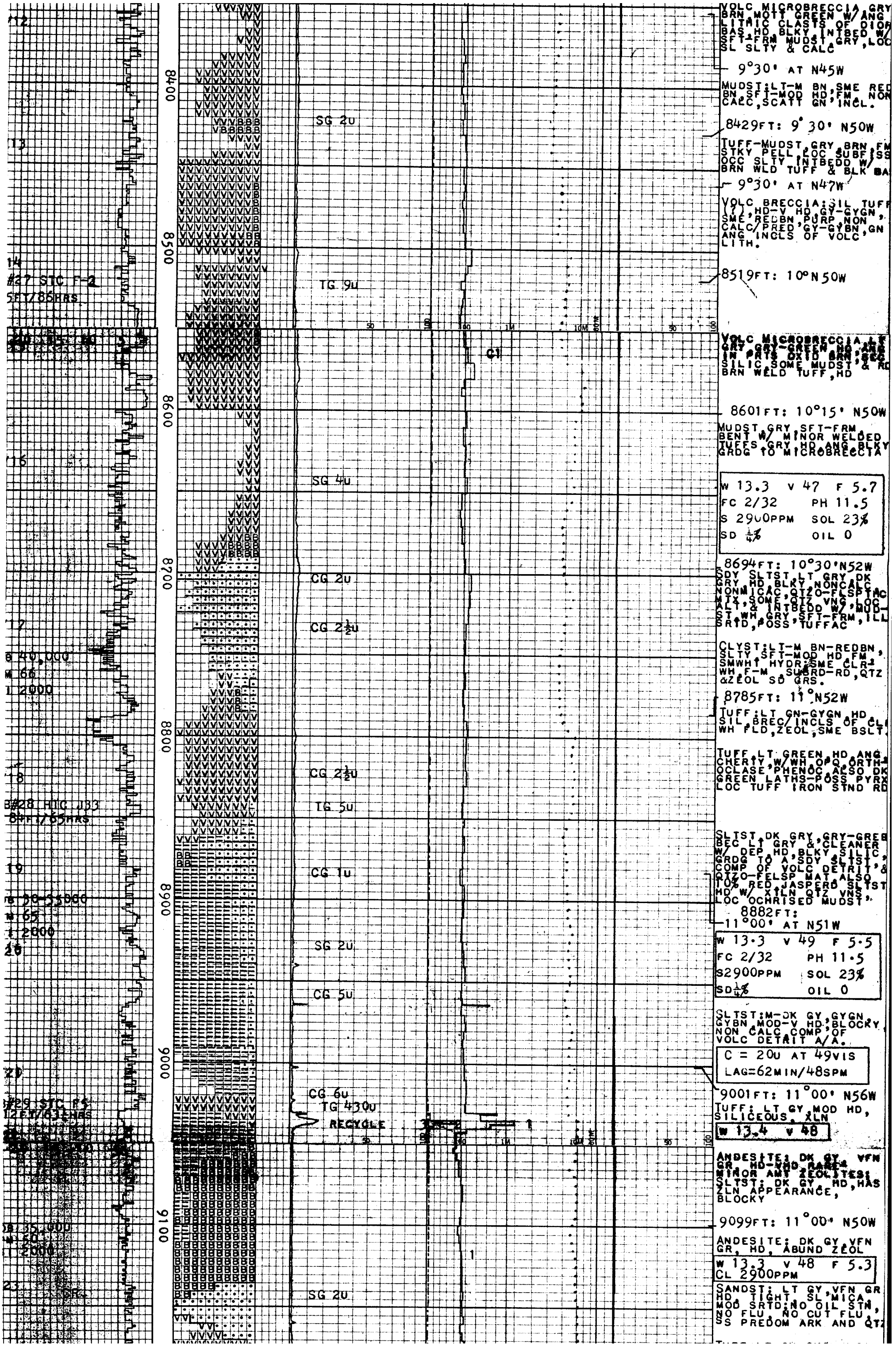
MUDST: VOLC, REDBN-BN, SFT-MOD HD, SCATT HD; FM, SMWHT HYDR, PRED APHAN, SME/INCL.

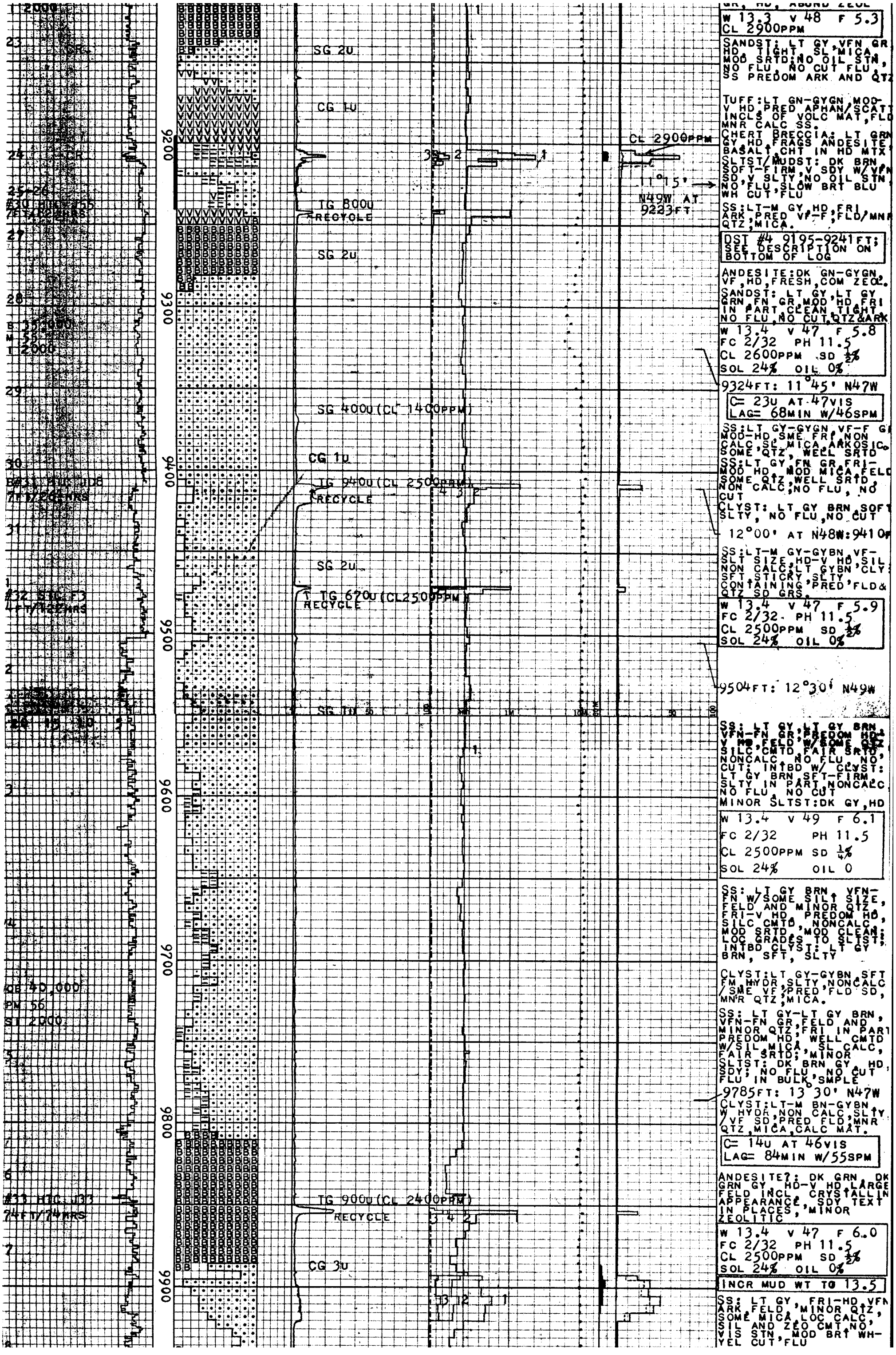
W 13.3 V 44 F 5.5
FC 2/32 PH 11.5
CL 3100PPM SD ¼

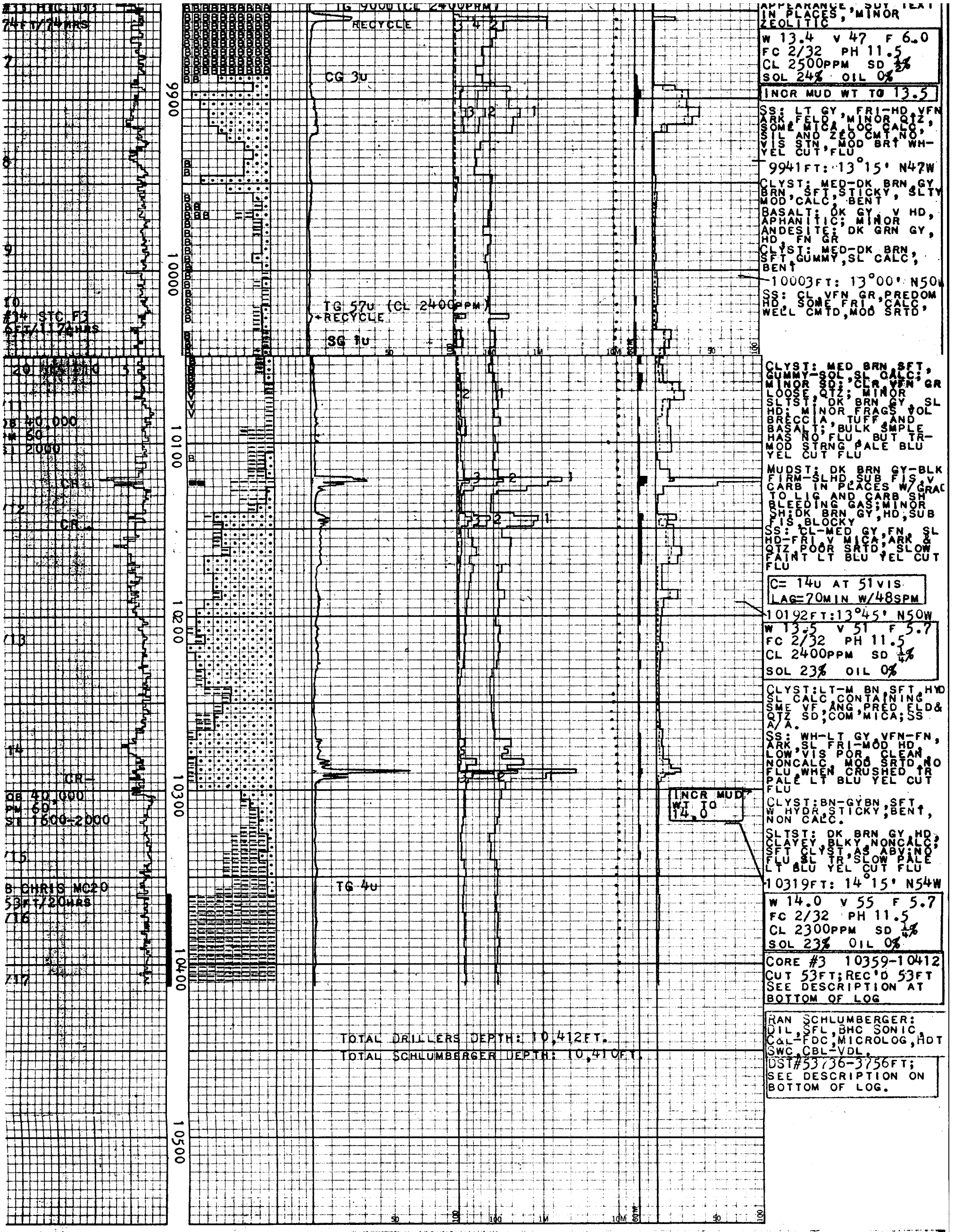
VOLC MICROBRECCIA, GRY BRN, MOTT GREEN W/ ANG LITHIC CLASTS OF DIOR BAS, HD, BLKY, INTBED W/ SFT-FRM MUDST, GRY, LOC SL SLTY & CALC

9°30' AT N45W

MUDST: LT-M BN, SME RED BN, SFT-MOD HD; FM, NON


8400
8500
8600
8700
8800
8900
9000
9100
SG 2u
TG 9u
C1
SG 4u
CG 2u
CG 2½u
CG 2½u
TG 5u
CG 1u
SG 2u
CG 5u
CG 6u
TG 430u
RECYCLE
SG 2u
VOLC MICROBRECCIA GRY BRN MOTT GREEN W/ ANG LITHIC CLASTS OF DIOR LBAS HD BLKY INTBED W/ SFT-FRM MUDST GRY, LOC SL SLTY & CALC
9°30' AT N45W
MUDST: LT-M BN, SME RED BN, SFT-MOD HD, FM, NON CALC, SCATT GN INCL.
8429FT: 9° 30' N50W
TUFF-MUDST, GRY, BRN, FM STKY PELL, LOC SUBFISS OCC SLTY INTBEDD W/ BRN WLD TUFF & BLK BA
9°30' AT N47W
VOLC BRECCIA: SIL TUFF (?), HD-V HD GY-GYGN, SME RED BN, PURP, NON CALC, PRED GY-GYBN, GN ANG INCLS OF VOLC LITH.
8519FT: 10°N50W
VOLC MICROBRECCIA LT GRY GRY-GREEN HD, ANG IN PRTS OXID BRN, SLC SILIC, SOME MUDST & RD BRN WELD TUFF, HD
8601FT: 10°15' N50W
MUDST GRY SFT-FRM BENT W/ MINOR WELDED TUFFS GRY HD ANG BLKY GRDG TO MICROBRECCIA
W 13.3 V 47 F 5.7
FC 2/32 PH 11.5
S 2900PPM SOL 23%
SD ¼% OIL 0
8694FT: 10°30'N52W
SDY SLTST, LT GRY DK GRY HD BLKY NONCALC NONMICAC, QTZO-FLSPTHC MTX, SOME QTZ VNG, LOC ALT & INTBEDD W/ MUDST WH GRY SFT-FRM, ILL SRTD, POSS TUFFAC
CLYST: LT-M BN-REDBN, SLTY SFT-MOD HD, FM, SMWHT HYDR, SME CLR WH F-M SUBRD-RD QTZ &ZEOL SD GRS.
8785FT: 11°N52W
TUFF: LT GN-GYGN HD SIL, BREC/ INCLS OF CL WH FLD, ZEOL, SME BSLT
TUFF, LT GREEN HD ANG CHERTY, W/ WH OPQ ORTH OCLASE, PHENOC ALSO DK GREEN LATHS-POSS PYRX LOC TUFF IRON STND RD
SLTST, DK GRY, GRY-GREE BEC LT GRY & CLEANER W/ DEP, HD, BLKY SILIC, GRDG TO A SDY SLTST, COMP OF VOLC DETRIT, & QTZO-FELSP MAT ALSO 10% RED JASPERD SLTST HD W/ XTLN QTZ VNS, LOC OCHRISED MUDST.
8882FT:
11°00' AT N51W
W 13·3 V 49 F 5·5
FC 2/32 PH 11·5
S2900PPM SOL 23%
SD ¼% OIL 0
SLTST: M-DK GY, GYGN GYBN, MOD-V HD, BLOCKY NON CALC COMP, OF VOLC DETRIT A/A.
C = 20u AT 49VIS
LAG=62MIN/48SPM
9001FT: 11°00' N56W
TUFF: LT GY, MOD HD, SILICEOUS, XLN
W 13.4 V 48
ANDESITE: DK GY, VFN GR, HD-VHD, RARE MINOR AMT ZEOLITES; SLTST: DK GY, HD, HAS ZLN APPEARANCE, BLOCKY
9099FT: 11°00' N50W
ANDESITE: DK GY, VFN GR, HD, ABUND ZEOL
W 13.3 V 48 F 5.3
CL 2900PPM
SANDST: LT GY, VFN GR HD, TIGHT, SL MICA, MOD SRTD; NO OIL STN, NO FLU, NO CUT FLU, SS PREDOM ARK AND QTZ
#12
13
14
#27 STC F-2
5FT/86HRS
16
17
18
#28 HTC J33
8FT/65HRS
19
20
#29 STC F3
12FT/63HRS
23
DR


9200
9300
9400
9500
9600
9700
9800
9900
SG 20
CG 1u
IG 8000
RECYCLE
SG 2u
SG 4000u (CL 1400PPM)
CG 1u
IG 9400u (CL 2500PPM)
RECYCLE
SG 2u
IG 6700u (CL2500PPM)
RECYCLE
SG TD 5
TG 9000u (CL 2400PPM)
RECYCLE
CG 3u
CL 2900PPM
11°15'
N49W AT
9223FT
W 13.3 V 48 F 5.3
CL 2900PPM
SANDST: LT GY, VFN GR HD TIGHT SL MICA MOD SRTD; NO OIL STN, NO FLU, NO CUT FLU, SS PREDOM ARK AND QTZ
TUFF: LT GN-GYGN MOD-V HD, PRED APHAN/SCATT INCLS OF VOLC MAT, FLD MNR CALC SS.
CHERT BRECCIA: LT GRN GY, HD, FRAGS ANDESITE BASALT, CHT IN HD MTX
SLTST/MUDST: DK BRN SOFT-FIRM, V SDY W/VFN SD, V SLTY, NO OIL STN NO FLU, SLOW BRT BLU WH CUT, FLU
SS: LT-M GY, HD, FRI ARK, PRED VF-F, FLD/MNR QTZ, MICA.
DST #4 9195-9241FT; SEE DESCRIPTION ON BOTTOM OF LOG
ANDESITE: DK GN-GYGN, VF, HD, FRESH, COM ZEOL.
SANDST: LT GY, LT GY GRN, FN GR, MOD HD, FRI IN PART, CLEAN TIGHT, NO FLU, NO CUT, QTZ & ARK
W 13.4 V 47 F 5.8
FC 2/32 PH 11.5
CL 2600PPM SD 1/2%
SOL 24% OIL 0%
9324FT: 11°45' N47W
C= 23U AT 47VIS
LAG= 68MIN W/46SPM
SS: LT GY-GYGN, VF-F GR MOD-HD, SME FR, NON CALC, SL MICA ARKOSIC, SOME QTZ, WELL SRTD
SS: LT GY, FN GR, FRI-MOD HD, MOD MICA, FELD SOME QTZ, WELL SRTD, NON CALC; NO FLU, NO CUT
CLYST: LT GY BRN, SOFT SLTY, NO FLU, NO CUT
12°00' AT N48W: 9410FT
SS: LT-M GY-GYBN, VF-SLT SIZE, HD-V HD, SIL NON CALC, LT GYBN, CLY SFT STICKY, SLTY CONTAINING, PRED, FLD & QTZ SD GRS.
W 13.4 V 47 F 5.9
FC 2/32 PH 11.5
CL 2500PPM SD 1/2%
SOL 24% OIL 0%
9504FT: 12°30' N49W
SS: LT GY, LT GY BRN, VFN-FN GR, PREDOM HD, V HD, FELD, W/SOME QTZ, SILC CMTD, FAIR SRTD, NONCALC, NO FLU, NO CUT; INTBD W/ CLYST: LT GY BRN, SFT-FIRM, SLTY IN PART, NONCALC NO FLU, NO CUT
MINOR SLTST: DK GY, HD
W 13.4 V 49 F 6.1
FC 2/32 PH 11.5
CL 2500PPM SD 1/4%
SOL 24% OIL 0
SS: LT GY BRN, VFN-FN W/SOME SILT SIZE, FELD AND MINOR QTZ, FRI-V HD, PREDOM HD, SILC CMTD, NONCALC, MOD SRTD, MOD CLEAN; LOC GRADES TO SLTST; INTBD CLYST: LT GY BRN, SFT, SLTY
CLYST: LT GY-GYBN, SFT FM, HYDR, SLTY, NONCALC /SME VF, PRED, FLD SD, MNR QTZ, MICA.
SS: LT GY-LT GY BRN, VFN-FN GR, FELD AND MINOR QTZ; FRI IN PART PREDOM HD, WELL CMTD W/SIL MICA, SL CALC, FAIR SRTD; MINOR SLTST: DK BRN GY, HD, SDY; NO FLU, NO CUT FLU IN BULK, SMPLE
9785FT: 13°30' N47W
CLYST: LT-M BN-GYBN W HYDR, NON CALC, SLTY /VF SD, PRED FLD, MNR QTZ, MICA, CALC MAT.
C= 14U AT 46VIS
LAG= 84MIN W/55SPM
ANDESITE?: DK GRN, DK GRN GY, HD-V HD, LARGE FELD INCL, CRYSTALLIN APPEARANCE, SDY TEXT IN PLACES, MINOR ZEOLITIC
W 13.4 V 47 F 6.0
FC 2/32 PH 11.5
CL 2500PPM SD 1/2%
SOL 24% OIL 0%
INCR MUD WT TO 13.5
SS: LT GY, FRI-HD, VFN ARK, FELD, MINOR QTZ, SOME MICA, LOC CALC, SIL AND ZEO CMT NO, VIS STN, MOD BRT WH-YEL CUT, FLU



MOBIL OIL

DRILL STEM REPORT

IRA BAKER # 1

DST#1 2000-2110FT

GTS IN 2MINS; STRG BLOW DEC TO WEAK.

TEST NO 1:

IFP.....139PSI

FFP.....163PSI AFTER 66MINS

FCIP....580PSI AFTER 60MINS

FFP.....163PSI AFTER 66MINS
FCIP....580PSI AFTER 60MINS
TEST NO 2:IFP.....163PSI
FFP.....232PSI AFTER 180MINS
FCIP....765PSI AFTER 120MINS

FINAL HYDROSTATIC MUD PRESSURE 1110PSI

DST#2 2775-2798FT (NO GOOD)
ATTEMPTED TO OPEN TOOL 3 TIMES,
PACKERS WOULDN'T HOLD

DST#3 2778-2798FT
VERY FAINT BLOW
TEST NO 1:
IFP.....98PSI
FFP.....245 AFTER 17MINS
FCIP....1725PSI AFTER 33MINS
TEST NO 2:IFP.....293PSI
FFP.....587PSI AFTER 60MIN
FCIP....1725PSI AFTER 120MIN
FINAL HYDROSTATIC MUD PRESSURE 1653PSI

DST#4 9195-9241FT.
PACKER SET AT 9195FT.WITH 2000FT.
WATER CUSHION.EXTREMELY FAINT BLOW.
INITIAL HYDROSTATIC MUD PRESSURE 6245PSI
TEST NO 1:
IFP.....836PSI
FFP.....841PSI AFTER 12MINS
FCIP....5948PSI AFTER 60MINS
TEST NO 2:
IFP.....880PSI
FFP.....978PSI AFTER 105MINS
FCIP....5668PSI AFTER 210MINS
(& STILL BUILDING)
FINAL HYDROSTATIC MUD PRESSURE 6536PSI
RECOVERED APPROX. 4 PINTS MUDDY WATER: CL 16,500PPM; TRACE SCUM WITH VERY DULL BLUE FLUORESCENCE, BUT NO CUT FLUORESCENCE, NO ODOR

DST#5 3736-3756FT.
PLUG BACK TO 6889FT. PACKER SET AT 3715FT.
NO WATER CUSHION. MEDIUM BLOW.

	BOTTOM	TOP	
INITIAL HYDROSTATIC MUD PRESSURE	2652PSI	2664PSI	
TEST NO.1			
IFP.....144PSI		122PSI	
FFP.....168PSI		145PSI	AFTER 15MINS
FCIP....502PSI		514PSI	AFTER 31MINS
TEST NO.2			
IFP.....191PSI		171PSI	
FFP.....191PSI		196PSI	AFTER 61MINS
FCIP....1649PSI		1653PSI	AFTER 10HRS 30MIN
FINAL HYDROSTATIC MUD PRESSURE	2628PSI	2640PSI	

RECOVERED 250FT. OF MUD: CL 1900PPM, TEMPERATURE 120°.

CORE NO.2 5664FT-5669FT, CUT 5FT; RECOVERED 5FT

5664-5666½FT: TUFF BRECCIA: MEDIUM RED GREY, APHANITIC MATRIX WITH FINE TO GRANULE SIZE ANGULAR BRECCIA CLASTS, MINOR COLLAPSED SCORIA FRAGMENTS, GREEN TUFF AND BASALT FRAGMENTS. SOME CLASTS CONTAIN ZEOLITES; SOME THIN FRACTURES FILLED WITH ZEOLITES. MATRIX LESS RED AND BECOMING DARKER GREY GREEN WITH DEPTH.

5666½-5668FT: TUFF BRECCIA: PREDOMINANTLY SAME AS ABOVE WITH MATRIX GREY GREEN.

5668 -5669FT: TUFF BRECCIA: MATRIX GREY GREEN. SECTION CONTAINS LARGE VUGS AND FRACTURES SEVERAL MM ACROSS FILLED WITH ZEOLITES; VERY CRUMBLY.

ENTIRE CORE SHOWED NO OIL STAINING, NO FLUORESCENCE, NO SOLVENT CUT FLUORESCENCE, AND NO HYDROCARBON ODOR.

CORE NO.3 10359FT-10412FT, CUT 53FT; RECOVERED 53FT

SILTSTONE:FAIRLY UNIFORM,BLACK TO GREY-GREEN,VERY MICACEOUS,DENSE,MASSIVE,SLIGHTLY PYRITIC IN PLACES,SLIGHTLY CALCAREOUS,OCCASIONAL FINE QUARTZ GRAINS,OCCASIONALLY MOTTLED,SCATTERED CALCITE VEINS,THIN LAMINATIONS DOWN TO 10388FT.

10400FT: APPROXIMATELY 2INCHES OF WHITE-LIGHT GREEN,COARSE GRAIN,ANGULAR MATERIAL CONSISTING OF QUARTZ,ALTERED FELDSPAR, AND VOLCANIC FRAGMENTS.

MINOR FOSSILS (GASTROPODS AND SHELL FRAGMENTS) THROUGHOUT CORE;NUMBER OF FOSSILS INCREASING AT 10397FT-10398FT.NO OIL STAINING,NO FLUORESCENCE,NO SOLVENT CUT