EXPLORATION LOGGING

A GEOLOGICAL - ENGINEERING SERVICE CO.

COMPANY RESERVE OIL & GAS CO.
WELL ROY - L & G - BRUER No.1
AREA DALLAS
LOCATION SEC.31, T.6 S., R.4 W., W. B. & M.
COUNTY, STATE POLK COUNTY, OREGON
ELEV. G.L. 345 K.B. 357 D.F.

DATE FROM 5/11/60 TO 5/31/60
DEPTH FROM 530 TO 5549
UNIT NO. 3
GEO-ENGINEERS R. HART, J. NAPPER, B. WARD

CASING RECORD

10 3/4" AT 530'
AT
AT

REMARKS

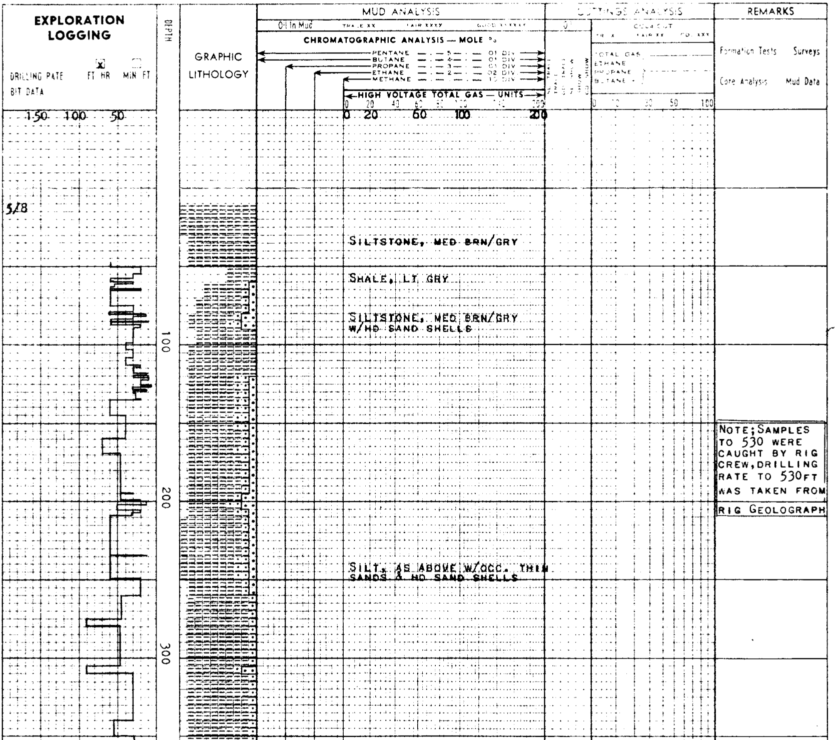
AGITATER TYPE GAS TRAP
CLAY BASE MUD

LEGEND

NB	NEW BIT	FC	FILTER CAKE
RRB	RERUN BIT	F	MUD FILTRATE cc 15 Min X cc 30 Min
CB	CORE BIT		
WLCB	WIRE LINE CB	S	SALINITY X g g NaCl ppm
NR	NO RETURNS		
CR	CIRCULATE RETURNS	R	MUD RESISTIVITY
CG	CONNECTION GAS	R-f	MUD FILTRATE RESISTIVITY
TG	TRIP GAS	❙	CORE INTERVAL
DST	DRILL STEM TEST	┆	DST INTERVAL
W	MUD WEIGHT		
V	MUD VISCOSITY		

LITHOLOGY LEGEND

☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
Clay and Shale	Silty Shale	Siltst.	Sandy Siltst.	Sand	Conglomerate	Salt	Limest.	Chert	Volcanic	Intrusive		



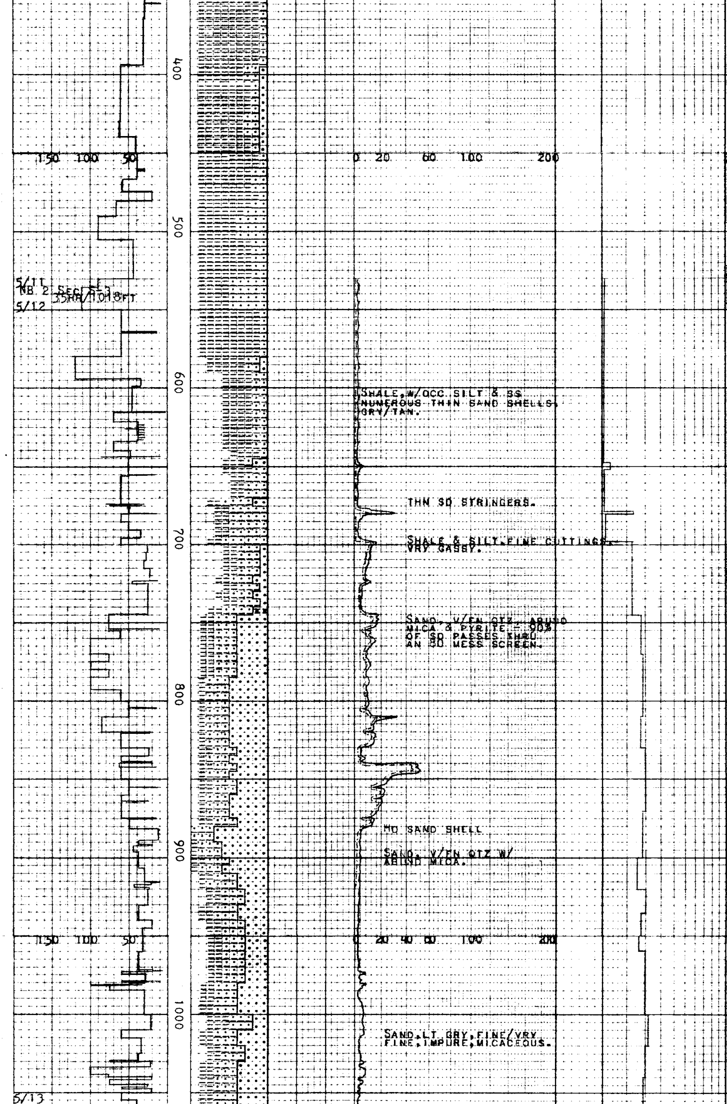
SILTSTONE, MED BRN/GRY

SHALE, LT GRY

SILTSTONE, MED BRN/GRY W/HD SAND SHELLS

SILT, AS ABOVE W/OCC. THIN SANDS & HD SAND SHELLS

NOTE; SAMPLES TO 530 WERE CAUGHT BY RIG CREW, DRILLING RATE TO 530FT WAS TAKEN FROM RIG GEOLOGRAPH



RAN 17½ JTS OF 10¾, 32.75#, H-40 CASING; 350 SKS CMT. DRILLED AHEAD WITH 9⅞ BIT.

5/11
NB 2 SEC 5-3
35HR/1018FT
5/12

LOGGING WITH EXPLORATION LOGGING CO. EQUIPT.

SHALE, W/OCC SILT & SS NUMEROUS THIN SAND SHELLS. GRY/TAN.

W 65
V 44
PH 11

THN SD STRINGERS.

S 28G/G

SHALE & SILT. FINE CUTTINGS. VRY GASSY.

BLOWING GAS, AFTER CONNECTION APPROX 1000U. (PUMP OFF)

0°45'

SAND, V/FN QTZ, ABUND MICA & PYRITE - 90% OF SD PASSES THRU AN 80 MESS SCREEN.

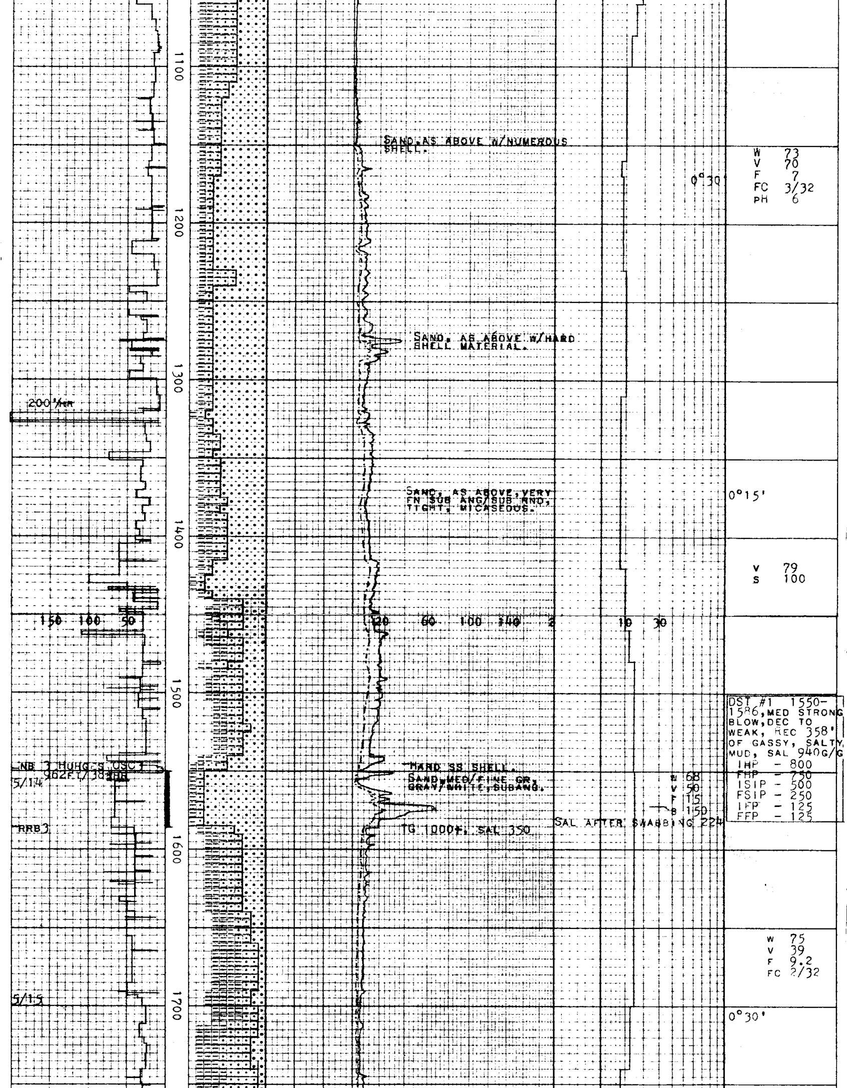
MD SAND SHELL

SAND, V/FN QTZ W/ ABUND MICA.

0°00'

SAND, LT GRY, FINE/VRY FINE, IMPURE, MICACEOUS.

5/13



SAND, AS ABOVE W/NUMEROUS SHELL.

W 73
V 70
F 7
FC 3/32
pH 6

0°30'

SAND, AS ABOVE W/HARD SHELL MATERIAL.

SAND, AS ABOVE, VERY FN SUB ANG/SUB RND, TIGHT, MICASEOUS.

0°15'

V 79
S 100

DST #1 1550-1586, MED STRONG BLOW, DEC TO WEAK, REC 358' OF GASSY, SALTY MUD, SAL 940G/G

IHP - 800
FHP - 750
ISIP - 500
FSIP - 250
IFP - 125
FFP - 125

HARD SS SHELL.

SAND, MED/FINE GR, GRAY/WHITE, SUBANG.

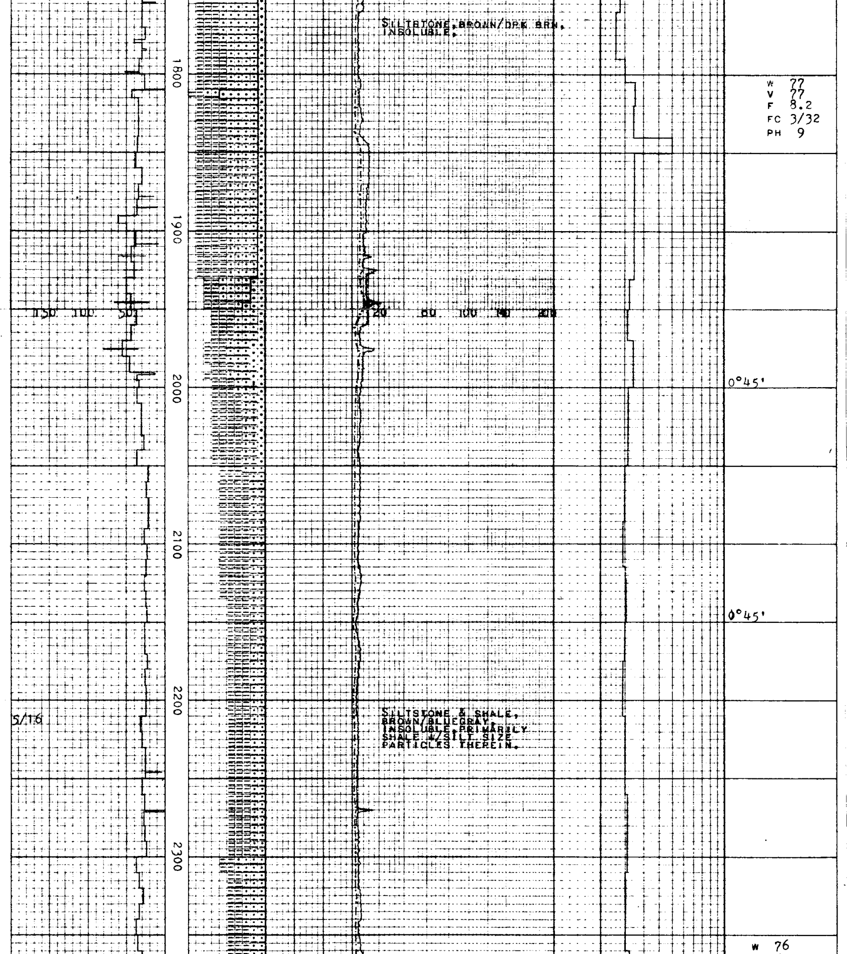
W 68
V 50
F 15
S 150

SAL AFTER SWABBING 224

TG 1000+, SAL 350

W 75
V 39
F 9.2
FC 2/32

0°30'



SILTSTONE, BROWN/DRK BRN,
INSOLUBLE.

W 77
V 77
F 8.2
FC 3/32
PH 9

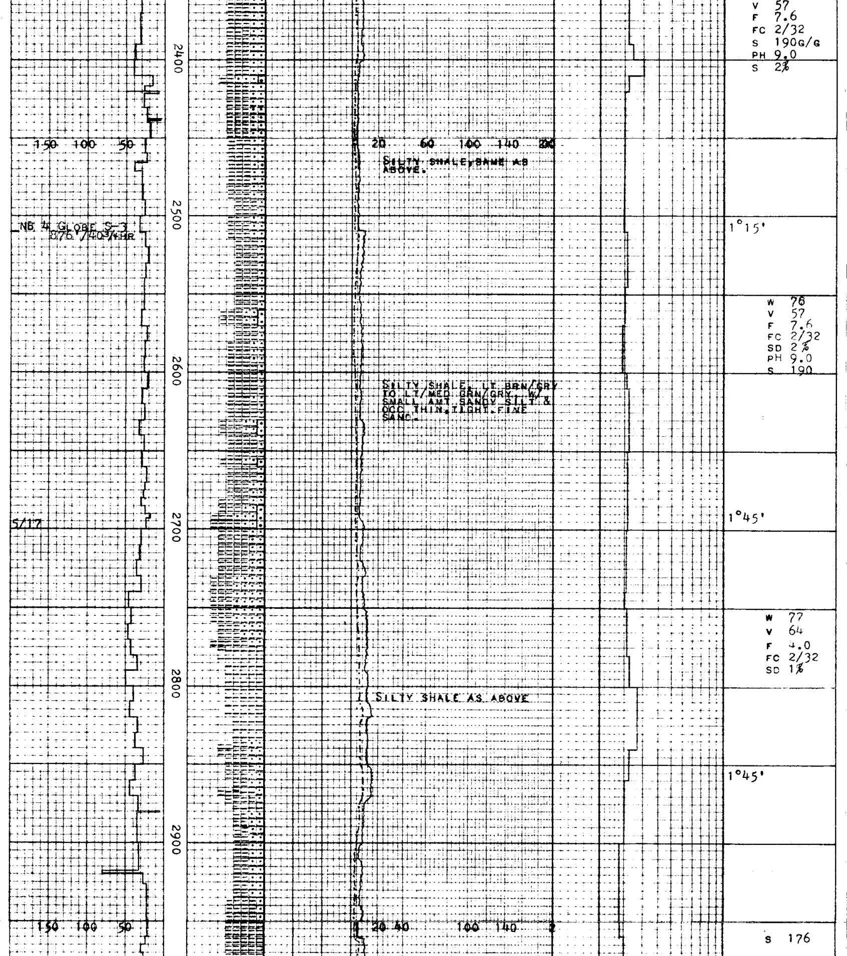
0°45'

0°45'

5/16

SILTSTONE & SHALE,
BROWN/BLUEGRAY,
INSOLUBLE, PRIMARILY
SHALE W/SILT SIZE
PARTICLES THEREIN.

W 76



v 57
F 7.6
FC 2/32
S 190G/G
PH 9.0
S 2%

SILTY SHALE, SAME AS ABOVE.

NB 4 GLOBE S-3
876'/40¾HR

1°15'

W 76
V 57
F 7.6
FC 2/32
SD 2%
PH 9.0
S 190

SILTY SHALE, LT BRN/GRY TO LT/MED GRN/GRY, W/ SMALL AMT SANDY SILT & OCC THIN, TIGHT, FINE SAND.

5/17

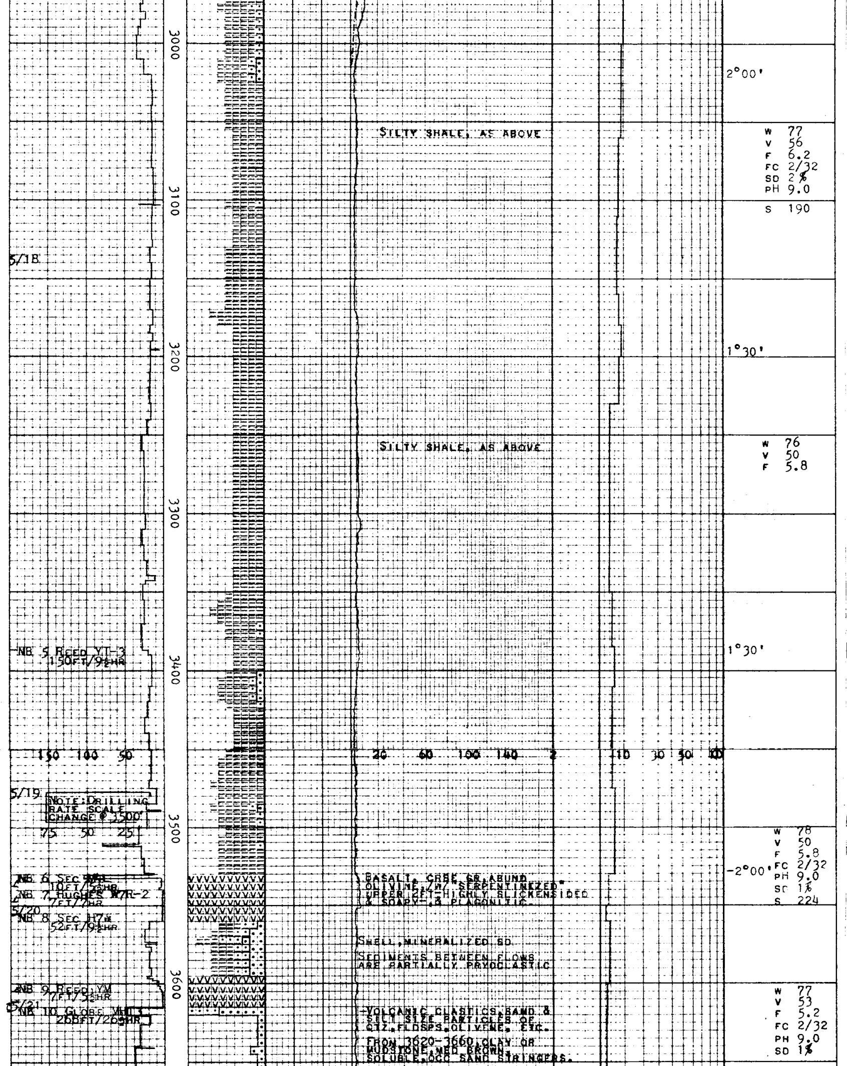
1°45'

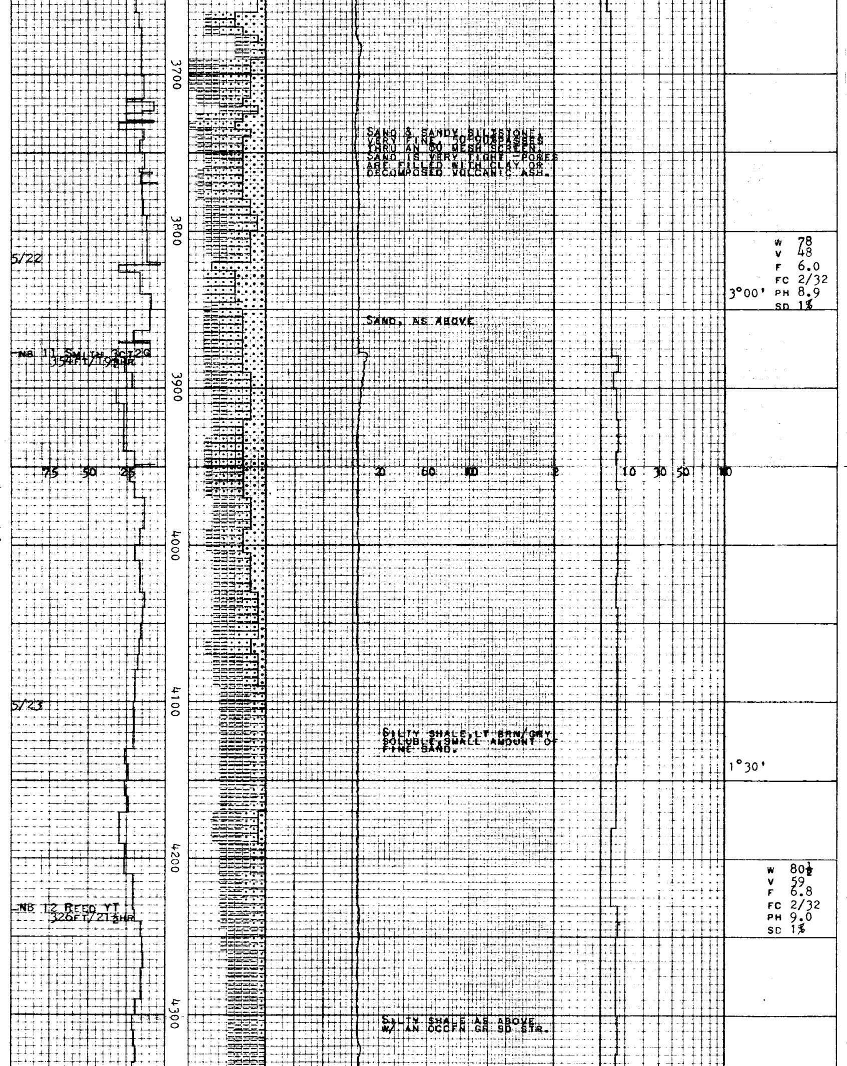
W 77
V 64
F 4.0
FC 2/32
SD 1%

SILTY SHALE AS ABOVE

1°45'

S 176





SAND & SANDY SILTSTONE, VERY FINE, 50-90% PASSES THRU AN 80 MESH SCREEN. SAND IS VERY TIGHT -PORES ARE FILLED WITH CLAY OR DECOMPOSED VOLCANIC ASH.

W 78
V 48
F 6.0
FC 2/32
PH 8.9
SD 1%

SAND, AS ABOVE

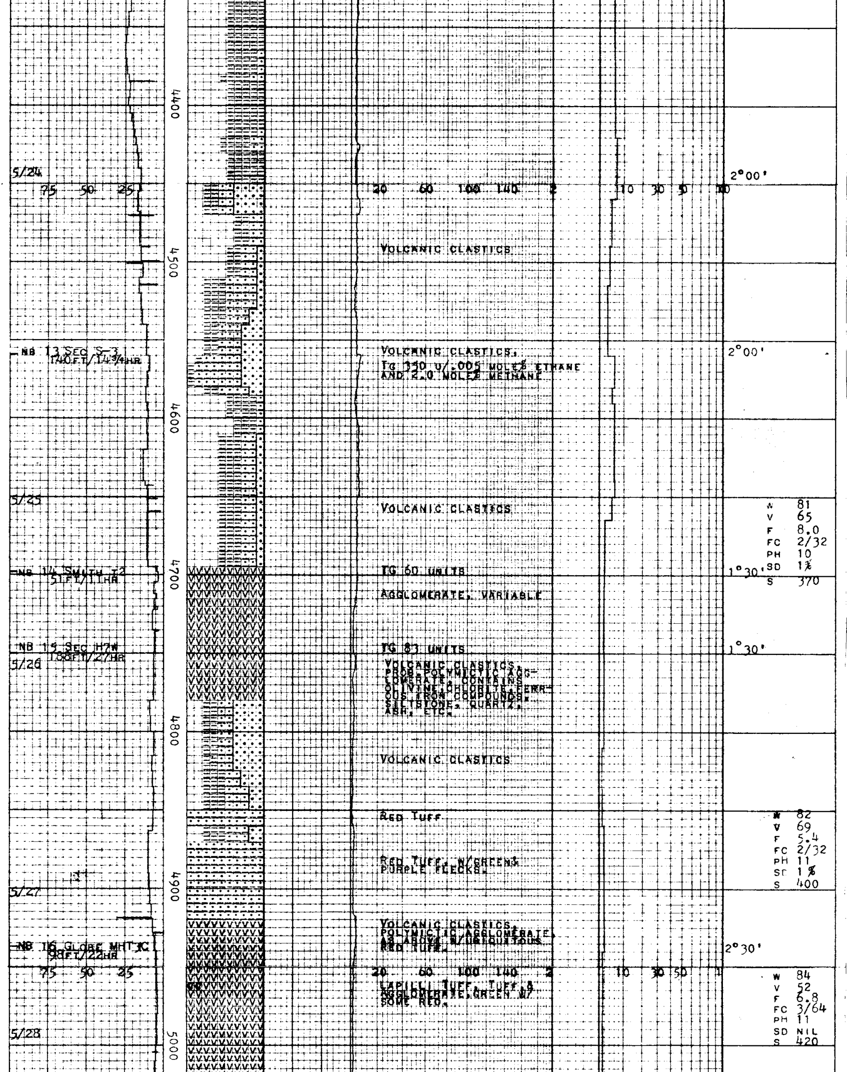
NB 11 SMITH 3CT2G
354FT/19½HR

SILTY SHALE, LT BRN/GRY SOLUBLE, SMALL AMOUNT OF FINE SAND.

W 80½
V 59
F 6.8
FC 2/32
PH 9.0
SD 1%

NB 12 REED YT
326FT/21½HR

SILTY SHALE AS ABOVE W/ AN OCCFN GR SD STR.



2°00'

VOLCANIC CLASTICS

NB 13 SEC S-3
140FT/14¾HR

VOLCANIC CLASTICS,
TG 350 U/.005 MOLE% ETHANE
AND 2.0 MOLE% METHANE

2°00'

VOLCANIC CLASTICS

W 81
V 65
F 8.0
FC 2/32
PH 10
SD 1%
S 370

NB 14 SMITH T2
51FT/11HR

TG 60 UNITS

1°30'

AGGLOMERATE, VARIABLE

NB 15 SEC H7W
188FT/27HR

TG 83 UNITS

1°30'

VOLCANIC CLASTICS,
PROB. POLYMICTIC AGG-
LOMERATE, CONTAINS
OLIVINE, CHLORITE, FERR-
OUS IRON COMPOUNDS,
SILTSTONE, QUARTZ,
ASH, ETC.

VOLCANIC CLASTICS

RED TUFF

W 82
V 69
F 5.4
FC 2/32
PH 11
SC 1%
S 400

RED TUFF, W/GREEN&
PURPLE FLECKS.

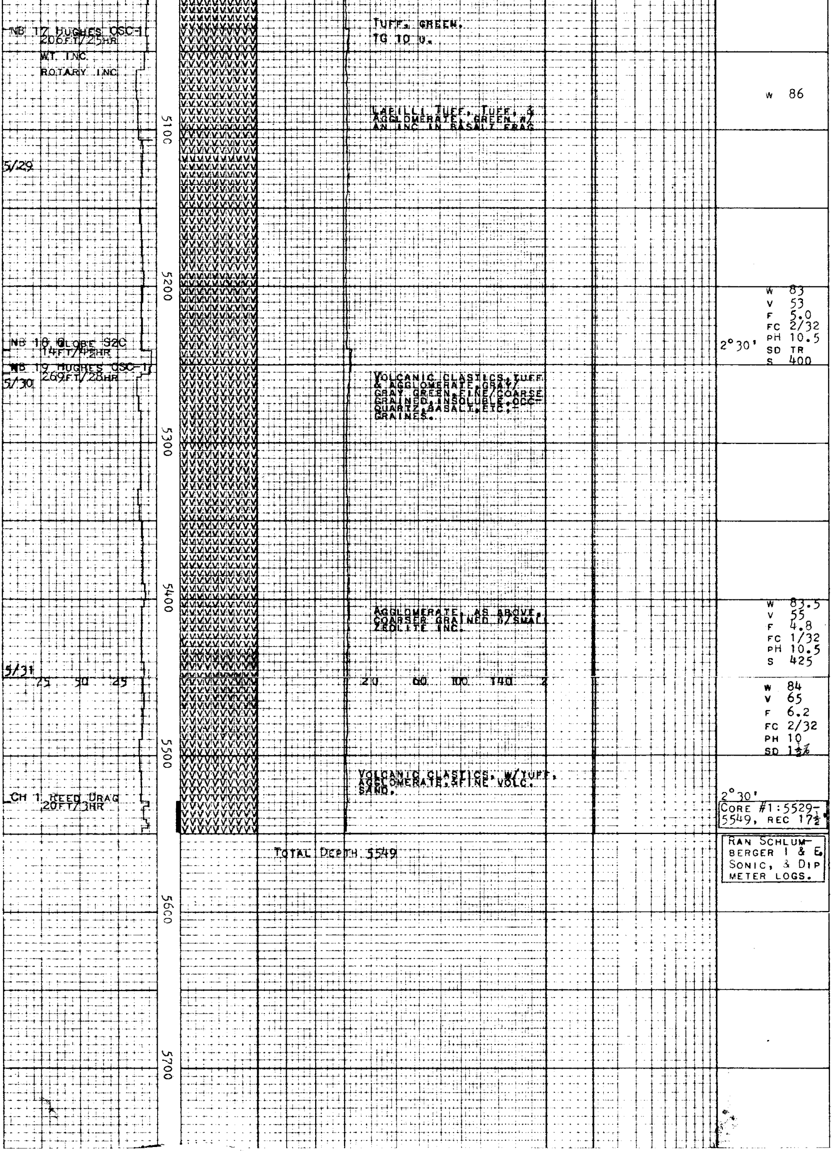
VOLCANIC CLASTICS,
POLYMICTIC AGGLOMERATE,
AS ABOVE W/UBIQUITOUS
RED TUFF.

NB 16 GLOBE MHT3C
98FT/22HR

2°30'

LAPILLI TUFF, TUFF &
AGGLOMERATE,GREEN W/
SOME RED.

W 84
V 52
F 6.8
FC 3/64
PH 11
SD NIL
S 420



NB 17 HUGHES OSC-1
206FT/25HR

WT. INC.

ROTARY INC.

5/29

NB 18 GLOBE S2C
14FT/4½HR

NB 19 HUGHES OSC-1
269FT/28HR

5/30

5/31

CH 1 REED DRAG
20FT/3HR

TUFF, GREEN.
TG 10 U.

LAPILLI TUFF, TUFF, & AGGLOMERATE, GREEN W/ AN INC IN BASALT FRAG

VOLCANIC CLASTICS, TUFF & AGGLOMERATE, GRAY/ GRAY GREEN, FINE/COARSE GRAINED, INSOLUBLE, OCC-QUARTZ, BASALT, ETC. GRAINES.

AGGLOMERATE, AS ABOVE, COARSER GRAINED W/SMALL ZEOLITE INC.

VOLCANIC CLASTICS, W/TUFF, AGGLOMERATE, & FINE VOLC. SAND.

TOTAL DEPTH 5549

W 86

W 83
V 53
F 5.0
FC 2/32
PH 10.5
SD TR
S 400

2°30'

W 83.5
V 55
F 4.8
FC 1/32
PH 10.5
S 425

W 84
V 65
F 6.2
FC 2/32
PH 10
SD 1⅓%

2°30'

CORE #1: 5529-5549, REC 17½'

RAN SCHLUMBERGER I & E, SONIC, & DIPMETER LOGS.