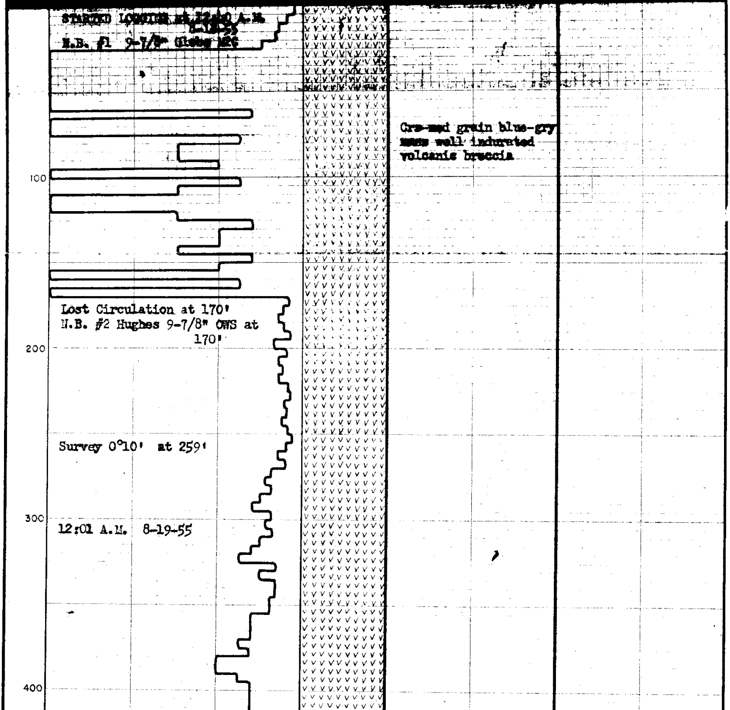
[redacted]



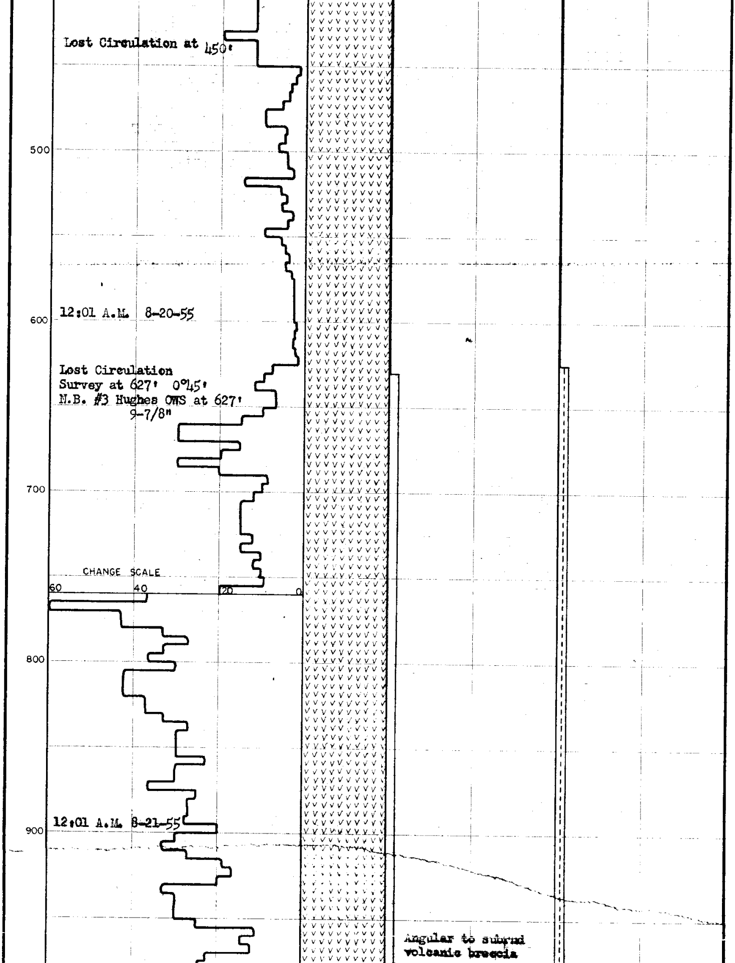
STARTED LOGGING at 12:40 A.M.
8-18-55
N.B. #1 9-7/8" Globe M2C

Crs-med grain blue-gry mass well indurated volcanic breccia

Lost Circulation at 170'
N.B. #2 Hughes 9-7/8" OWS at 170'

Survey 0°10' at 259'

12:01 A.M. 8-19-55



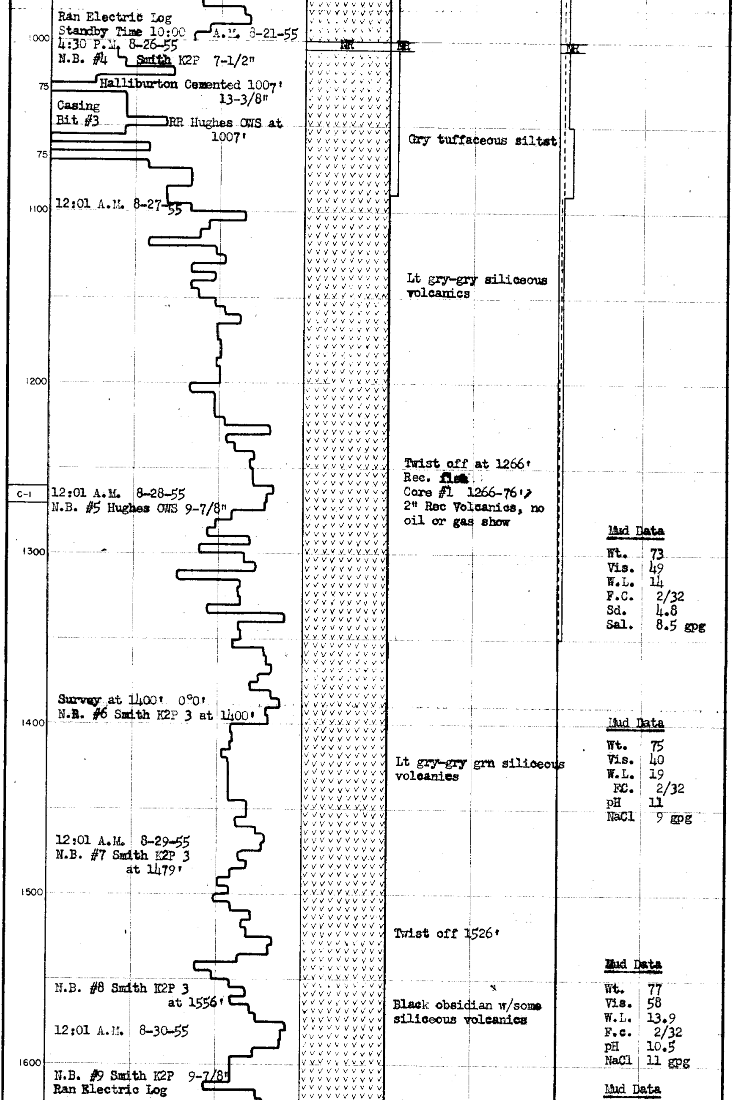
Lost Circulation at 450'

12:01 A.M. 8-20-55

Lost Circulation
Survey at 627' 0°45'
N.B. #3 Hughes OWS at 627'
9-7/8"

12:01 A.M. 8-21-55

Angular to subrnd
volcanic breccia



Ran Electric Log
Standby Time 10:00 A.M. 8-21-55
4:30 P.M. 8-26-55
N.B. #4 Smith K2P 7-1/2"

Halliburton Cemented 1007'
13-3/8"
Casing

Bit #3
RR Hughes OWS at
1007'

Gry tuffaceous siltst

12:01 A.M. 8-27-55

Lt gry-gry siliceous
volcanics

Twist off at 1266'
Rec. fish
Core #1 1266-76'
2" Rec Volcanics, no
oil or gas show

12:01 A.M. 8-28-55
N.B. #5 Hughes OWS 9-7/8"

Mud Data

Wt.	73
Vis.	49
W.L.	14
F.C.	2/32
Sd.	4.8
Sal.	8.5 gpg

Survey at 1400' 0°0'
N.B. #6 Smith K2P 3 at 1400'

Mud Data

Wt.	75
Vis.	40
W.L.	19
FC.	2/32
pH	11
NaCl	9 gpg

Lt gry-gry grn siliceous
volcanics

12:01 A.M. 8-29-55
N.B. #7 Smith K2P 3
at 1479'

Twist off 1526'

Mud Data

Wt.	77
Vis.	58
W.L.	13.9
F.c.	2/32
pH	10.5
NaCl	11 gpg

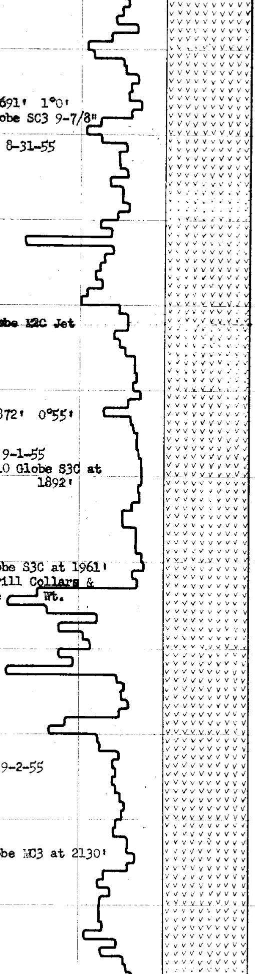
N.B. #8 Smith K2P 3
at 1556'

Black obsidian w/some
siliceous volcanics

12:01 A.M. 8-30-55

N.B. #9 Smith K2P 9-7/8"
Ran Electric Log

Mud Data



Wt.	72
Vis.	36
W.L.	10.9
F.C.	4/32
pH	9
NaCl	15 gpg

Gry-grn frbl tuff ss w/some gry-grn siliceous volcanics

Survey at 1691' 1°0'
N.B. #10 Globe SC3 9-7/8"

Dk grn basalt w/some siliceous volcanics

1700

12:01 A.M. 8-31-55

Undifferentiated volcanics

1800

N.B. #11 Globe M2C Jet

Undifferentiated volcanics

Mud Data

Wt.	75
Vis.	52
W.L.	7.8
F.C.	2/32
Sd.	1-1/2
NaCl	11 gpg

Survey at 1872' 0°55'

Undifferentiated volcanics

12:01 A.M. 9-1-55
Rerun Bit #10 Globe S3C at 1892'

1900

N.B. #12 Globe S3C at 1961'
added (3) Drill Collars &
running Core Wt.

Mud Data

Wt.	74.5
Vis.	58
W.L.	8.9
F.C.	2/32
pH	7.4
Sd.	1-1/2
NaCl	11 gpg

2000

Undifferentiated volcanics

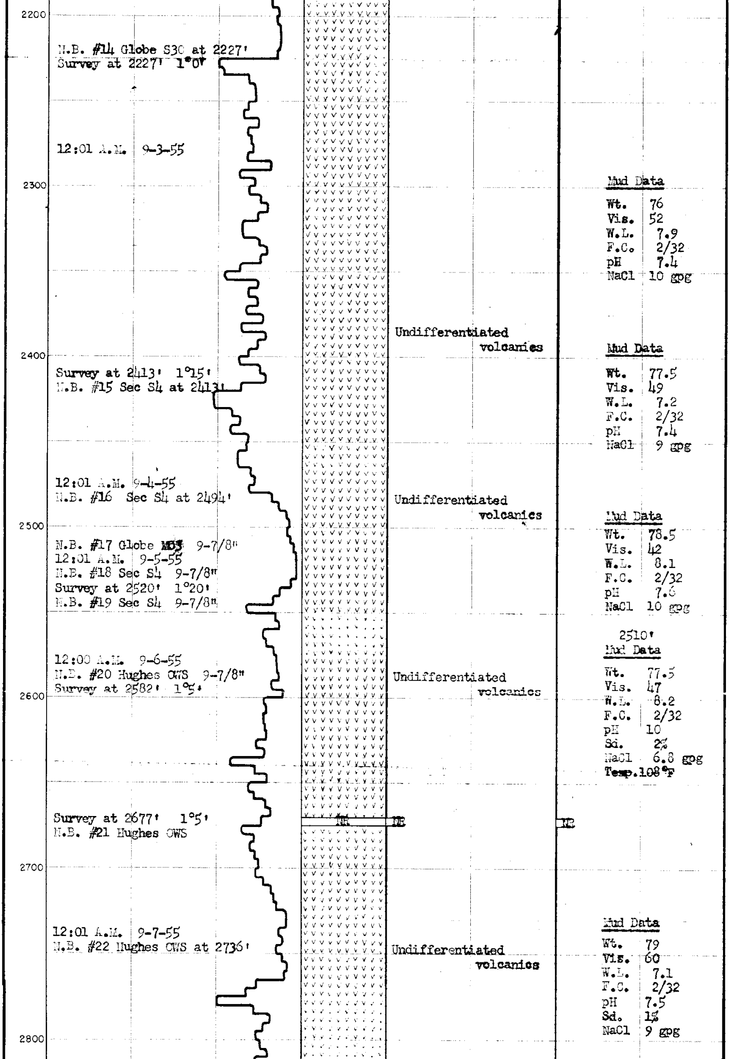
Mud Data

Wt.	76
Vis.	53
W.L.	7.2
F.C.	2/32
pH	7.4
Sd.	2
NaCl	11 gpg

12:01 A.M. 9-2-55

2100

N.B. #13 Globe MC3 at 2130'



N.B. #14 Globe S30 at 2227'
Survey at 2227' 1°0'

12:01 A.M. 9-3-55

Survey at 2413' 1°15'
N.B. #15 Sec S4 at 2413'

12:01 A.M. 9-4-55
N.B. #16 Sec S4 at 2494'

N.B. #17 Globe MD3 9-7/8"
12:01 A.M. 9-5-55
N.B. #18 Sec S4 9-7/8"
Survey at 2520' 1°20'
N.B. #19 Sec S4 9-7/8"

12:00 A.M. 9-6-55
N.B. #20 Hughes OWS 9-7/8"
Survey at 2582' 1°5'

Survey at 2677' 1°5'
N.B. #21 Hughes OWS

12:01 A.M. 9-7-55
N.B. #22 Hughes OWS at 2736'

Undifferentiated volcanics

Undifferentiated volcanics

Undifferentiated volcanics

Undifferentiated volcanics

Mud Data

Wt.	76
Vis.	52
W.L.	7.9
F.C.	2/32
pH	7.4
NaCl	10 gpg

Mud Data

Wt.	77.5
Vis.	49
W.L.	7.2
F.C.	2/32
pH	7.4
NaCl	9 gpg

Mud Data

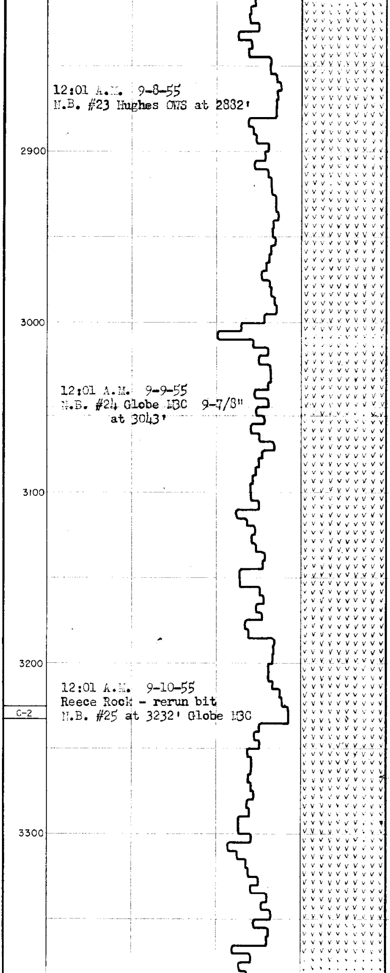
Wt.	78.5
Vis.	42
W.L.	8.1
F.C.	2/32
pH	7.6
NaCl	10 gpg

2510'
Mud Data

Wt.	77.5
Vis.	47
W.L.	8.2
F.C.	2/32
pH	10
Sd.	2%
NaCl	6.8 gpg
Temp.	108°F

Mud Data

Wt.	79
Vis.	60
W.L.	7.1
F.C.	2/32
pH	7.5
Sd.	1%
NaCl	9 gpg



Mud Data	
Wt.	77.5
Vis.	54.5
W.L.	8.8
F.C.	2/32
pH	7.5
Sd.	2.5%
NaCl	6 gpg

12:01 A.M. 9-8-55
N.B. #23 Hughes OWS at 2882'

Undifferentiated volcanics

Mud Data	
Wt.	78
Vis.	65
W.L.	8.9
F.C.	2/32
pH	8.0
Sd.	5%
NaCl	10 gpg

Undifferentiated volcanics (sdy tuffaceous clay)

12:01 A.M. 9-9-55
N.B. #24 Globe M3C 9-7/8" at 3043'

Mud Data	
Wt.	77.5
Vis.	65
W.L.	7.0
F.C.	2/32
pH	8.0
Sd.	2.5%
NaCl	11 gpg

Mud Data	
Wt.	78.5
Vis.	52
W.L.	5.8
F.C.	2/32
pH	8.0
Sd.	2%
NaCl	11 gpg

12:01 A.M. 9-10-55
Reece Rock - rerun bit
N.B. #25 at 3232' Globe M3C

Core #2 3226-3233'
Rec. 7'
Tuff lt gry hd dense carbon streaks no shows

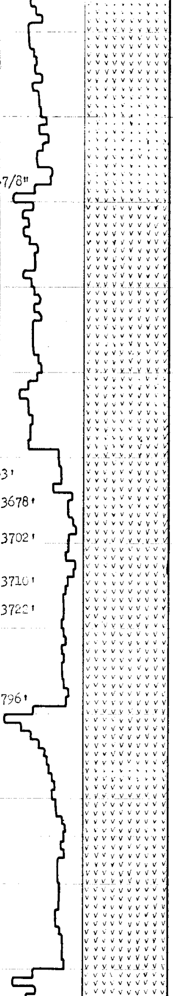
Mud Data	
Wt.	78.5
Vis.	65
W.L.	7.9
F.C.	2/32
pH	8.0
Sd.	2%

12:01 A.M. 9-11-55

3400

N.B. #26 Globe M3C 9-7/8"
Totco 1 50' at 3493'

3500



Undifferentiated volcanics

Mud Data

Wt.	78
Vis.	57
W.L.	7.7
F.C.	2/32
Sd.	2%

3600

12:00 A.M. 9-12-55

Mud Data

Wt.	78
Vis.	53
W.L.	7.2
F.C.	2/32
pH	7.7
NaCl	15 gpg

N.B. #27 Sec S-4 at 3663'
Survey 1°35'
N.B. #28 Hughes OWS at 3678'

Undifferentiated volcanics

N.B. #29 Hughes OWS at 3702'

3700

12:00 A.M. 9-13-55
Twisted off at 3710'
N.B. #30 Hughes OWS at 3710'

N.B. #31 Hughes OWS at 3722'

12:00 A.M. 9-14-55

Mud Data

Wt.	78.5
Vis.	48
W.L.	8.6
F.C.	2/32
pH	7.7
NaCl	4.4 gpg

N.B. #32 Globe M3C at 3796'

3800

Undifferentiated volcanics

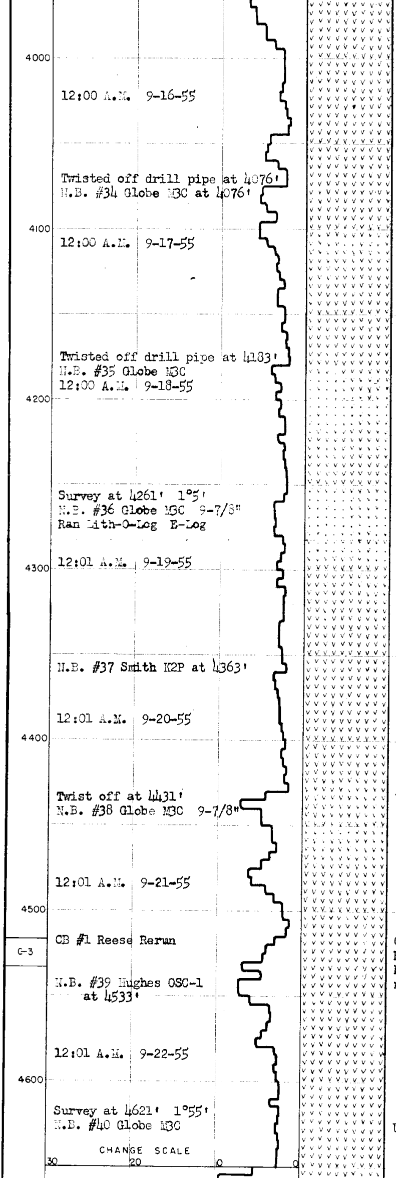
Mud Data

Wt.	78
Vis.	54
W.L.	7.8
F.C.	2/32
Sd.	1.5%
NaCl	9 gpg

12:00 A.M. 9-15-55

3900

N.B. #33 Sec S-4



Undifferentiated
volcanics

12:00 A.M. 9-16-55

Mud Data

Wt.	78.5
Vis.	58.5
W.L.	7.2
F.C.	2/32
pH	8.3
NaCl	6 gpg

Twisted off drill pipe at 4076'
N.B. #34 Globe M3C at 4076'

Undifferentiated
volcanics

12:00 A.M. 9-17-55

Mud Data

Wt.	78.5
Vis.	58
W.L.	7.2
F.C.	2/32
Sd.	2%
NaCl	6 gpg

Twisted off drill pipe at 4183'
N.B. #35 Globe M3C
12:00 A.M. 9-18-55

Mud Data

Wt.	78
Vis.	55
W.L.	5.5
F.C.	2/32
Sd.	2%
NaCl	4 gpg

Survey at 4261' 1°5'
N.B. #36 Globe M3C 9-7/8"
Ran Lith-O-Log E-Log

Undifferentiated
volcanics

12:01 A.M. 9-19-55

Mud Data

Wt.	80
Vis.	55
W.L.	7.4
F.C.	2/32
pH	8.2
Sd.	2%

N.B. #37 Smith K2P at 4363'

12:01 A.M. 9-20-55

Mud Data

Wt.	80
Vis.	52
W.L.	7.2
F.C.	2/32
Sd.	2%
NaCl	11 gpg

Twist off at 4431'
N.B. #38 Globe M3C 9-7/8"

Undifferentiated
volcanics

12:01 A.M. 9-21-55

CB #1 Reese Rerun

Core #3 4518-4533'
Rec 15' Tuffaceous
hd dense abund cobbles
no shows no dips

N.B. #39 Hughes OSC-1
at 4533'

12:01 A.M. 9-22-55

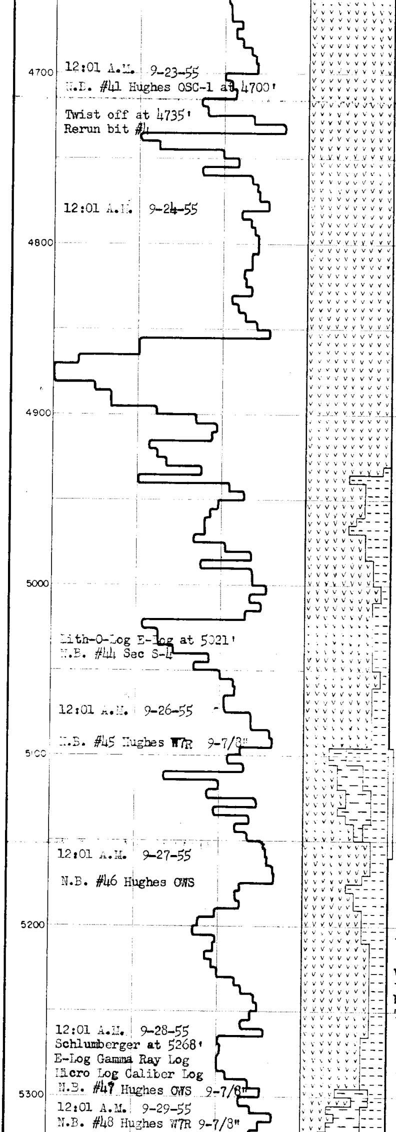
Mud Data

Wt.	78
Vis.	51
W.L.	13.8
F.C.	2/32
Sd.	2%
NaCl	8.6 gpg

Survey at 4621' 1°55'
N.B. #40 Globe M3C

Undifferentiated
volcanics

Mud Data



Wt.	79.5
Vis.	49
W.L.	10.9
F.C.	2/32
pH	7.8
NaCl	9 gpg

12:01 A.M. 9-23-55
N.B. #41 Hughes OSC-1 at 4700'

Twist off at 4735'
Rerun bit #4

Undifferentiated volcanics

Mud Data

Wt.	81
Vis.	46
W.L.	8.5
F.C.	2/32
pH	8.4
Sd.	2%
NaCl	11 gpg

12:01 A.M. 9-24-55

Undifferentiated volcanics w/some buff-med gry-grn tuff clayst & some dk brn carb sh

Mud Data

Wt.	81
Vis.	53
W.L.	8.8
F.C.	2/32
pH	8.2
NaCl	12 gpg

Lith-O-Log E-Log at 5021'
N.B. #44 Sec S-4

12:01 A.M. 9-26-55

N.B. #45 Hughes W7R 9-7/8"

Dk brn carb sh

Mud Data

Wt.	84
Vis.	47
W.L.	10
F.C.	2/32
Sd.	2.5
NaCl	13 gpg

12:01 A.M. 9-27-55

N.B. #46 Hughes OWS

Undifferentiated volcanics w/some buff & gry-brn tuff clayst & some dk brn carb sh
Tr gry calc vitric tuff

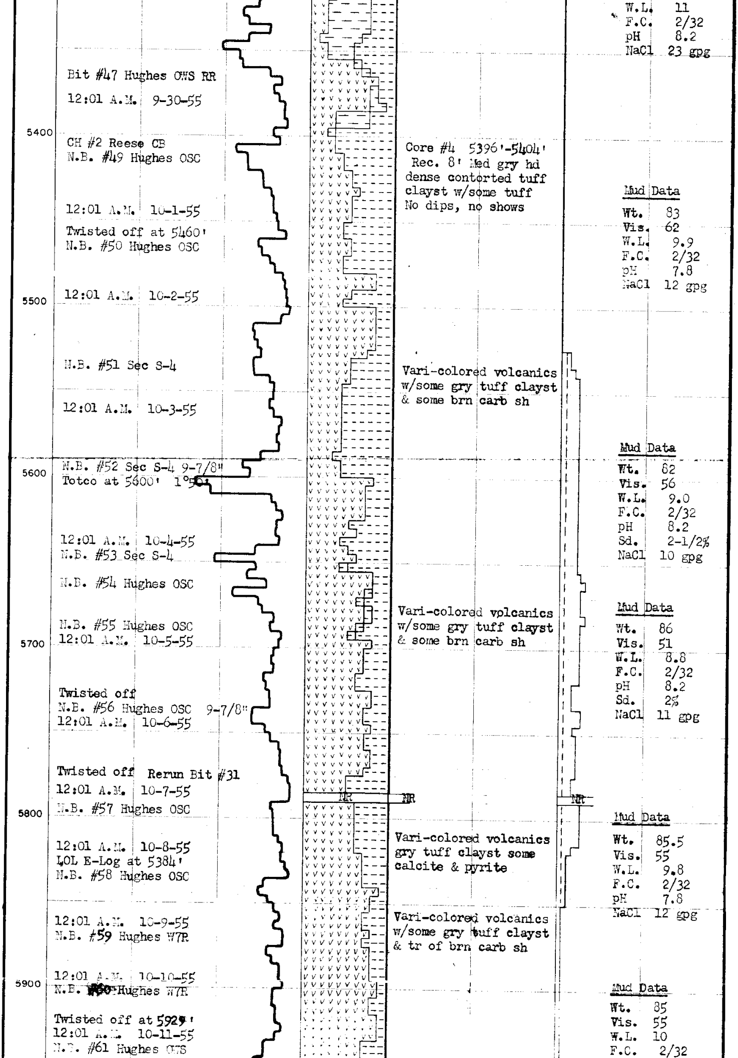
Mud Data

Wt.	84
Vis.	61
W.L.	7.9
F.C.	2/32
Sd.	4%
NaCl	12 gpg

12:01 A.M. 9-28-55
Schlumberger at 5268'
E-Log Gamma Ray Log
Micro Log Caliber Log
N.B. #47 Hughes OWS 9-7/8"
12:01 A.M. 9-29-55
N.B. #48 Hughes W7R 9-7/8"

Mud Data

Wt.	81.5
Vis.	55



Bit #47 Hughes OWS RR
12:01 A.M. 9-30-55

CH #2 Reese CB
N.B. #49 Hughes OSC

12:01 A.M. 10-1-55
Twisted off at 5460'
N.B. #50 Hughes OSC

12:01 A.M. 10-2-55

N.B. #51 Sec S-4

12:01 A.M. 10-3-55

N.B. #52 Sec S-4 9-7/8"
Totco at 5600' 1°50'

12:01 A.M. 10-4-55
N.B. #53 Sec S-4

N.B. #54 Hughes OSC

N.B. #55 Hughes OSC
12:01 A.M. 10-5-55

Twisted off
N.B. #56 Hughes OSC 9-7/8"
12:01 A.M. 10-6-55

Twisted off Rerun Bit #31
12:01 A.M. 10-7-55
N.B. #57 Hughes OSC

12:01 A.M. 10-8-55
LOL E-Log at 5384'
N.B. #58 Hughes OSC

12:01 A.M. 10-9-55
N.B. #59 Hughes W7R

12:01 A.M. 10-10-55
N.B. #60 Hughes W7R

Twisted off at 5929'
12:01 A.M. 10-11-55
N.B. #61 Hughes OWS

Core #4 5396'-5404'
Rec. 8' Med gry hd
dense contorted tuff
clayst w/some tuff
No dips, no shows

Vari-colored volcanics
w/some gry tuff clayst
& some brn carb sh

Vari-colored volcanics
w/some gry tuff clayst
& some brn carb sh

Vari-colored volcanics
gry tuff clayst some
calcite & pyrite

Vari-colored volcanics
w/some gry tuff clayst
& tr of brn carb sh

W.L.	11
F.C.	2/32
pH	8.2
NaCl	23 gpg

Mud Data

Wt.	83
Vis.	62
W.L.	9.9
F.C.	2/32
pH	7.8
NaCl	12 gpg

Mud Data

Wt.	82
Vis.	56
W.L.	9.0
F.C.	2/32
pH	8.2
Sd.	2-1/2%
NaCl	10 gpg

Mud Data

Wt.	86
Vis.	51
W.L.	8.8
F.C.	2/32
pH	8.2
Sd.	2%
NaCl	11 gpg

Mud Data

Wt.	85.5
Vis.	55
W.L.	9.8
F.C.	2/32
pH	7.8
NaCl	12 gpg

Mud Data

Wt.	85
Vis.	55
W.L.	10
F.C.	2/32

C-5
6000
C-6
6100
C-7
6200
6300
6400
6500

N.B. #62 Hughes W7R at 5972'
Twisted off at 5982'
12:01 A.M. 10-12-55
N.B. #62 Hughes W7R at 5982'
Twisted off at 5988'
12:01 A.M. 10-13-55
NCB #3 Reese RH
N.B. #63 Hughes OWS at 6002'
N.B. #64 Hughes OWS at 6020'
12:01 A.M. 10-14-55
Bit #62 Hughes W7R at 6025' RR
N.B. #65 Hughes W7R at 6030'
12:01 A.M. 10-15-55
NCB #4 Reese RH
N.B. #66 Hughes W7R at 6051'
N.B. #67 Hughes W7R at 6057'
12:01 A.M. 10-16-55
N.B. #68 Hughes OWS at 6067'
N.B. #69 Hughes W7R at 6076'
12:01 A.M. 10-17-55
Bit #60 Hughes W7R 6087' RR
Bit #67 Hughes W7R at 6094' RR
Bit #58 Hughes OWS at 6102' RR
12:01 A.M. 10-18-55
Bit #66 Hughes W7R at 6111' RR
NCB #5 Reese RH
N.B. #70 Hughes W7R at 6128'
12:01 A.M. 10-19-55
N.B. #71 Hughes OWS at 6148'
N.B. #72 Hughes W7R at 6159'
12:01 A.M. 10-20-55
N.B. #73 Hughes W7R at 6177'
12:01 A.M. 10-21-55
N.B. #74 Hughes OWS at 6225'
N.B. #75 Mercury Diamond 9-7/8"
12:01 A.M. 10-22-55 at 6250'
N.B. #76 Hughes W7R at 6250'
12:01 A.M. 10-23-55

N.B. #78 Hughes W7R at 6308' 9-7/8"
12:01 A.M. 10-25-55

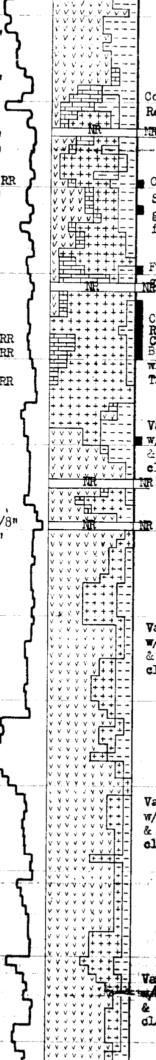
N.B. #79 Hughes OWS at 6362' 9-7/8"
12:01 A.M. 10-26-55

N.B. #80 Hughes W7R at 6413' 9-7/8"
12:01 A.M. 10-27-55

N.B. #81 Hughes W7R at 6458' 9-7/8"
12:01 A.M. 10-28-55

12:01 A.M. 10-29-55
Survey at 6503' 1°10'
N.B. #82 Hughes W7R at 6503'
12:01 A.M. 10-30-55

N.B. #83 Hughes W7R at 6540' 9-7/8"
12:01 A.M. 10-31-55



Core #5 5989'-6002'
Rec 3' Wh-buff dense limest w/some dk brn carb

Core #6 6045'-6051'
Sil clayst-chert dk gry minute calcite filled frac

Faint cut due to gilsonite or tar?

Core #7 6121'-6128'
Rec 6" similar to Core #6
Brn calc chert w/some wh limest & sil clayst
Try pyrite & brn sh

Vari-colored volcanics w/some brn calc chert & some dk gry-gry clayst tr siltst & sh

Vari-colored volcanics w/some brn calc chert & some dk gry-dk gry clayst tr siltst & sh

Vari-colored volcanics w/some brn calc chert & some dk gry-gry clayst tr siltst & sh

Vari-colored volcanics ~~w/some brn calc chert~~ & some dk gry-gry clayst tr siltst & sh

NR
NR
NR
NR

pH 7.6
Sd. 2%
NaCl 12 gpg

Mud Data
Wt. 82.5
Vis. 48
W.L. 9.0
F.C. 2/32
pH 8.0
Sd. 2-1/2%
NaCl 13 gpg

Mud Data
Wt. 82
Vis. 56
W.L. 10.9
F.C. 2/32
pH 8.0
Sd. 1-1/2%
NaCl 11 gpg

Mud Data
Wt. 81
Vis. 48
W.L. 10.6
F.C. 2/32
pH 8.2
Sd. 2%
NaCl 13 gpg

6325'
Mud Data
Wt. 81
Vis. 54
W.L. 9.6
F.C. 2/32
pH 8.2
Sd. 2%
NaCl 12 gpg

6450'
Mud Data
Wt. 82
Vis. 58
W.L. 8.2
F.C. 2/32
pH 8.3
Sd. 2%

6505'
Mud Data
Wt. 81
Vis. 54
W.L. 10.6
F.C. 2/32
pH 8.8
Sd. 2%
NaCl 12 gpg

6600

N.B. #84 Hughes W7R at 6596'
12:01 A.M. 11-1-55

12:01 A.M. 11-2-55

N.B. #85 Hughes W7R at 6659' 9-7/8"
12:01 A.M. 11-3-55

Vari-colored volcanics w/some brn chert & some dk gry-gry clayst tr siltst & brn carb sh

6600'
Mud Data

Wt.	81
Vis.	50
W.L.	9.0
F.C.	2/32
pH	8.0
Sd.	1-1/2%
NaCl	12 gpg

6700

C-8

Schlumberger E-Log & Micro-Log Run at 6693' 12:01 A.M. 11-4-55
NCB #6 Reese RH at 6695'
N.B. #86 Hughes W7R at 6695'

Core #8 6695'-6711'
Rec 15' contorted volc s/chert No shows - dips

Vari-colored volcanics w/some brn chert & some dk gry-gry clayst tr siltst & brn carb sh

6688'
Mud Data

Wt.	80.5
Vis.	62
W.L.	8.4
F.C.	2/32
Sd.	0.5%

12:01 A.M. 11-5-55

N.B. #87 Hughes OWS at 6771'
12:01 A.M. 11-6-55

Vari-colored volcanics w/some brn chert & some dk gry-gry clayst tr siltst & brn carb sh

6800

N.B. #88 Hughes W7R at 6817'

12:01 A.M. 11-7-55

Mud Data

Wt.	80.5
Vis.	59
W.L.	8.4
F.C.	2/32
pH	8.2
Sd.	1%
NaCl	10 gpg

N.B. #89 Hughes W7R at 6878'
12:01 A.M. 11-8-55

6900

NCB #7 Reese RH at 6916'
12:01 A.M. 11-9-55

C-9

NCB #8 Reese RH at 6936'

C-10

N.B. #90 Hughes W7R at 6956'
12:01 A.M. 11-10-55

Core #9 6916'-6936'
Rec 20' similar to core #8 but w/very little cut slight tar stains at 6935-1/2'
Core #10 6936'-6956'
Rec 20' similar to cores #8 & #9. No shows

Mud Data

Wt.	79
Vis.	58
W.L.	9.0
F.C.	2/32
pH	8.2
Sd	1%
NACl	10 gpg

7000

12:01 A.M. 11-11-55

NCB #9 Reese RH at 7039'

C-11

N.B. #91 Hughes W7R at 7051'
12:01 A.M. 11-12-55

N.B. #92 Hughes W7R at 7077'
12:01 A.M. 11-13-55

Core #11 7039'-7051'
Rec 12' Similar to cores #8, #9 & #10 but commonly vy cherty
No shows

Mud Data

Wt.	80.5
Vis.	57
W.L.	8.6
F.C.	2/32
pH	8.3
Sd.	1%
NaCl	10 gpg

7100

12:01 A.M. 11-14-55
Schlumberger E-Log & Micro-Log
Caliper Log at 7103'
N.B. #93 Hughes W7R 9-7/8"
12:01 A.M. 11-15-55
Winterizing Drilling Rig On standby from 4:00 P.M. 11-15-55 to 10:00 P.M. 11-21-55
12:01 A.M. 11-22-55

Mud Data

Wt.	80.5
Vis.	58
W.L.	9.2
F.C.	2/32
Sd.	1%
NaCl	14 gpg

C-12

N.B. #94 Hughes W7R at 7138'
NCB #10 Reese RH at 7170'
12:01 A.M. 11-23-55

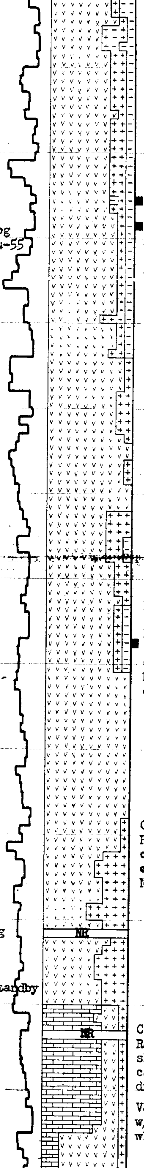
7200

N.B. #95 Hughes W7R at 7188'
12:01 A.M. 11-24-55
N.B. #96 Hughes W7R at 7228'
12:01 A.M. 11-25-55

Core #12 7170'-7188'
Rec 6" Vy frac chert & slight limest w/abund calcite No shows or dips

Vari-colored volcanics w/some brn chert & some wh-buff dense limest

Mud Data

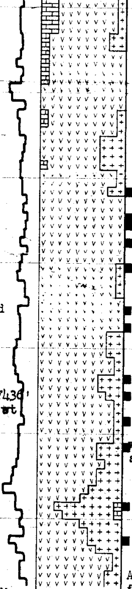


12:01 A.M. 11-26-55
N.B. #97 Hughes OWS at 7295'

7300 12:01 A.M. 11-27-55
N.B. #98 Hughes W7R at 7317'

12:01 A.M. 11-28-55
NCB #11 Reese RH at 7349'
C-13 NCB #12 Reese RH at 7354'
C-14 12:01 A.M. 11-29-55
C-15 NCB #13 Reese RH at 7365'
12:01 A.M. 11-30-55
C-16 N.B. #99 Hughes W7R at 7373'
12:01 A.M. 12-1-55, 12-2-55
7400 NCB #14 Reese RH at 7373'
JFT #1 7260'-7378' Puff blow diminishing to dead for last 40 min Rec 30' of drilling mud No shows
NCB #15 Reese RH at 7378'
N.B. #100 Hughes W7R at 7386'
N.B. #101 Hughes W7R at 7390'
12:01 A.M. 12-4-55
Rerun Bit #100 Hughes W7R at 7436'
2 Drlg collars added for more wt
12:01 A.M. 12-5-55
7500 N.B. #102 Hughes W7R at 7505'
12:01 A.M. 12-6-55

12:01 A.M. 12-7-55
NCB #16 Reese RH at 7584'
12:01 A.M. 12-8-55
C-17 TOTAL DEPTH LOGGED 7594'
7600 LITH-O-LOG RELEASED AT 8:00 A.M. 12-8-55



Core #13 7349'-7354' Rec 5' Vy sil volcanics dense some calcite filled frac vy rare oil stains oil frac

Core #14 7354'-7365' Rec 9' similar to Core #13 - Core #15 7365'-7373' Rec 8' similar to Core #14 - Core #16 7378'-7386' Rec 8' similar to core #15

Vari-colored volcanics w/some brn-wh cht and some calcite

Core #17 7584'-7594' Rec 7' Contorted sil volcanics & chert Abund calcite filled frac No shows

Wt.	78
Vis.	58
W.L.	8.9
F.C.	2/32
pH	7.8
Sd.	1%
NaCl	9 gpg

Mud Data

Wt.	80
Vis.	59
W.L.	8.4
F.C.	2/32
pH	8.3
Sd.	2%
NaCl	11 gpg

Mud Data

Wt.	80.5
Vis.	62
W.L.	8.3
F.C.	2/32
pH	8.3
Sd.	2%
NaCl	11 gpg

Mud Data

Wt.	81
Vis.	59
W.L.	8.4
F.C.	2/32
pH	8.4
Sd.	1-1/2%
NaCl	12 gpg