NORTHWEST GEOTHERMAL CORPORATION

DRILLING LOG

Contractor SKiles
Location SW, NE, NW, SE 7T8S, R9E
Well 3/8 7000' Timberline

Report # 1
Date 7-20-78
Maintemin Area

Depth @ 6 AM
Log: 6 AM to Noon - Set up
Noon to 2 PM Drilling
Drilled 20', 5/8' I.D.
Casing (in ground)
Formation: Mudflow
Gray andesitic sand and
boulders. (Very little red -
- Pellicle mud flow?)

Depth @ 8 PM

Formation

0 ft.

Total Footage

Drilling Fluid:

☐ Mud - Additives
☐ Air - Pressure 1000 c.f.m. P.S.I. 100
Additives

Weather Report Clear

071-NS

Observer J W A
NORTHWEST GEOTHERMAL CORPORATION

DRILLING LOG

Contractor: SKIES

Location: SW, NE, NE Sec7 T3 S, R9 E

Well #: 39 7 acres

Report #2

Date: 7-24-79

Depth @ 7'45 AM/PM

Log:
- Gray and ferric
- Sand and boulders, Mud
- Flow debris, Hard
- Boulder @ 57'

Formation

Total Footage

20 ft.

Drilling Fluid:

☐ Mud - Additives

☐ Air - Pressure 1000 cfm P.S.I./Additives

Weather Report: FAIR

Observer: JWH

8071-NS
**NORTHWEST GEOTHERMAL CORPORATION**

**DRILLING LOG**

Contractor: Skyles  
Location: SW NE NE Sec 7 T3S R9E  
Well #: 3/9 7000

Report #: 3  
Date: 7-25-78

<table>
<thead>
<tr>
<th>Depth @ 7:45 AM/PM</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Volcanic Mudflow Debris</td>
<td></td>
</tr>
<tr>
<td>Lt Gray Andesite 60-70' Drilled Fast</td>
<td></td>
</tr>
<tr>
<td>75' Hard &amp; Slow Drilling</td>
<td></td>
</tr>
<tr>
<td>Mudflow Changed Color From Red Orange</td>
<td></td>
</tr>
<tr>
<td>Clay &amp; Lt Gray Andesite</td>
<td></td>
</tr>
<tr>
<td>87' Volcanic Debris Changed Back To</td>
<td></td>
</tr>
<tr>
<td>Lt Gray Andesite, Few Rafts</td>
<td></td>
</tr>
<tr>
<td>99.5' No Immediate Conductive Pipe</td>
<td></td>
</tr>
<tr>
<td>Not Driving - Driving Very Slowly</td>
<td></td>
</tr>
<tr>
<td>6' / hr</td>
<td></td>
</tr>
<tr>
<td>At 90' Broke Through Boulder</td>
<td></td>
</tr>
<tr>
<td>Correction: Conductor Pipe</td>
<td></td>
</tr>
<tr>
<td>Broke at Well 30' from Top of Hole</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Formation</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>60 ft.</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Total Footage</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td></td>
</tr>
</tbody>
</table>

**Drilling Fluid:**

- [ ] Mud - Additives
- [x] Air - Pressure 1800 cfm, P.S.I. 100 Additives, Foam

Weather Report: HOT

8071-NS  
Observer: CM
# Northwest Geothermal Corporation

## Drilling Log

**Contractor:** Skyles  
**Location:** 3S 9E 7acc  
**Well #:** 71-7  
**Report #:** 4  
**Date:** 7-26-78

<table>
<thead>
<tr>
<th>Depth @ 9 AM/PM</th>
<th>Formation</th>
</tr>
</thead>
<tbody>
<tr>
<td>90' - 100'</td>
<td>90 ft.</td>
</tr>
<tr>
<td>Fe-Magnes present, clear cut, some red-orange tinged, drilling rate 10'/hr.</td>
<td></td>
</tr>
<tr>
<td>Probably a mud flow</td>
<td></td>
</tr>
<tr>
<td>AT 93 1/2', drill broke through</td>
<td></td>
</tr>
<tr>
<td>Boulder, at 97', drill slowed down</td>
<td></td>
</tr>
<tr>
<td>and has stayed at same rate 4.5'/hr.</td>
<td></td>
</tr>
<tr>
<td>100'-110' same material as described</td>
<td></td>
</tr>
<tr>
<td>Before</td>
<td></td>
</tr>
<tr>
<td>110' - At grey andesite, Yttr of P.W.</td>
<td></td>
</tr>
<tr>
<td>Large P.C. very little red-orange tinged</td>
<td></td>
</tr>
<tr>
<td>Flow on P andesite porphyry, more P.C than Hb</td>
<td></td>
</tr>
<tr>
<td>113'-114', drilling rate 1'/hr. Returns are</td>
<td></td>
</tr>
<tr>
<td>Silt size</td>
<td></td>
</tr>
<tr>
<td>No change to 116 1/2'</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Depth @ 4:30 AM/PM</th>
<th>Total Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td>116 1/2'</td>
<td>26 1/2'</td>
</tr>
</tbody>
</table>

**Drilling Fluid:**
- [ ] Mud - Additives
- [X] Air - Pressure 1000 CFM, P.S.I. 100, Additives FOAM

**Weather Report:** Rain

8071-NS  
**Observer:** J. Meyer
NORTHWEST GEOThERMAL CORPORATION

DRILLING LOG

Contractor: Skyes
Location: 359 E 7acre
Well #: 71-7
Report #: 5
Date: 7-27-78

Depth @ 8:30 AM
Log: Resumed drilling P1 andesite
Very poor cutting return. Air hammer
Drilling rate is 1'/hr. Cutting are silt
size. 11/6 slowly. Drilling rate picked up
1' in 10 min.
To 120' R1 type same: medium fines
Tan in color. Rare. Drilling rate 3'/hr
126' Drilling rate 1 1/2'/hr. R1 type same
Predominantly P1 andesite. Some red-orange fss.
Some tan fss.
- 130' No change. No cuttings.
- Ground up to silt size.
- 134' No chg. 2'/hr
- 135' 1'/hr.

Depth @ 5:36 AM (PM)
5:30 11/6 AM
Total Footage
135
18 1/2

Drilling Fluid:
☐ Mud - Additives
☐ Air - Pressure 1000 cfm P.S.I. 100 Additives foam

Weather Report: Sunny - Cool

Observer: J. Meyer

8071-NS
# Northwest Geothermal Corporation

## Drilling Log

**Contractor:** Skyler

**Location:** 35 - 96 7 ace

**Well #:** 71-7

**Time:** 8:00 AM

**Depth @ 8:30 AM:**

**Log:**
- Work on Air lines 7:30 - 8:50
- 134' 1/40 min Andosite Flow
- 137' 1/45 min
- 138' 1/12 min 157' No Change
- 139' - 20 min 80' type
- 140' - 15 min More rock fragments
- 141' - 30 min Suspect slough material
- 142' 8
- 143' 20
- 144' 20
- 145' 6
- 146' 8
- 147' 12
- 148' 17
- 150' 32

**Depth @ 5:00 AM:**

**Total Footage:** 157

**Drilling Fluid:**

- [ ] Mud - Additives
- [x] Air - Pressure 1000 cfm P.S.I. 100 Additives Foam

**Weather Report:** Clear

**Observer:** J.W.H. J.M.
NORTHWEST GEOTHERMAL CORPORATION

DRILLING LOG

Contractor: Skyles
Location: 35 96 7 acres

Well #: 71-7

Bottom hole Temp: taken at 11:30 am prior to drilling

Depth @ 12:00 noon: 157 ft.

Log: Additional air compressor 285 cfm and more foam (BAROID "Quick Foam") added.

Drilling rate increased and cutting return improved.

Cuttings: light gray coarse grained andesite.

Drilling time: min/ft

<table>
<thead>
<tr>
<th>Depth Range</th>
<th>Time (pm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>158-159</td>
<td>31</td>
</tr>
<tr>
<td>159-160</td>
<td>5</td>
</tr>
<tr>
<td>160-161</td>
<td>7</td>
</tr>
<tr>
<td>161-162</td>
<td>4</td>
</tr>
<tr>
<td>162-163</td>
<td>4</td>
</tr>
<tr>
<td>163-165</td>
<td>8</td>
</tr>
<tr>
<td>167-168</td>
<td>2</td>
</tr>
<tr>
<td>176-177</td>
<td>3</td>
</tr>
</tbody>
</table>

Depth @ 9:00 AM/PM: 182 ft.

Total Footage: 182 ft.

Drilling Fluid:

- [ ] Mud - Additives
- [ ] Air - Pressure 480 P.S.I.

Additives: Quick Foam

Weather Report: Clear, Warm

Observer: R.G. Bowen

8071-NS
NORTHWEST GEOTHERMAL CORPORATION

DRILLING LOG

Contractor: SKYLES  
Location: TIMBERLINE LODGE 35, 9E, 7 acre  
Well #: 71-7  
Report #: 8  
Date: Aug 1, 1978

Depth @ 8:30 AM/PM
Log: gray andesite as above

<table>
<thead>
<tr>
<th>Temp</th>
<th>3:44</th>
<th>7712.6</th>
<th>3.01 °C</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3:53</td>
<td>7714.0</td>
<td>3.81</td>
</tr>
</tbody>
</table>

Air temp from annulus: 42°F

Came out of hole to check bit for sharpness, it was dull and large fracture had developed at shoulder of bit. Further drilling would probably cause bit to fail.

Driller estimates hole is making 5 gpm

Rig released

Depth @ 3:30 AM/PM

SWL = STANDING WATER LEVEL/Total Footage

Drilling Fluid:
- [ ] Mud - Additives
- [X] Air - Pressure  P.S.I.  Additives: Quick Foam

Weather Report

8071-NS  
Observer: RG Bowen
NORTHWEST GEOTHERMAL CORPORATION
DRILLING LOG

Contractor: SKYLSE
Location: Timberline Lodge
Well #: 71-7

Report #: 9
Date: 6/1/78

Depth @ 10:00 AM/PM
Log:
9:45am 7722.2 ft 2.95°C
Pump test gives a flow of 6-7 gpm
Drilling rate at start 8’/ft
@195’ flowing measured 50 gpm
drilling fast from 29’ (10’ in 8 min)

<table>
<thead>
<tr>
<th>Formation</th>
<th>Depth</th>
<th>Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td>188 ft.</td>
<td></td>
<td>253</td>
</tr>
<tr>
<td>T40°F</td>
<td></td>
<td>200'</td>
</tr>
<tr>
<td>57°F</td>
<td></td>
<td>200-210</td>
</tr>
<tr>
<td></td>
<td></td>
<td>210-220</td>
</tr>
<tr>
<td>47°F</td>
<td></td>
<td>220-230</td>
</tr>
<tr>
<td>46°F</td>
<td></td>
<td>230-240</td>
</tr>
<tr>
<td>42°F</td>
<td></td>
<td>240</td>
</tr>
</tbody>
</table>

Drilling Fluid:
- [ ] Mud - Additives
- [ ] Air - Pressure P.S.I. Additives QUICK FOAM

Weather Report
8071-NS
Observer: [Signature]
**NORTHWEST GEOTHERMAL CORPORATION**

**DRILLING LOG**

Contractor: American Deep Drilling

Location: Timberline Lodge

Well #: 717

Report #: 10

Date: 8-8-78

<table>
<thead>
<tr>
<th>Depth @</th>
<th>AM/PM</th>
<th>Formation</th>
</tr>
</thead>
<tbody>
<tr>
<td>000</td>
<td>000</td>
<td>253 ft.</td>
</tr>
<tr>
<td>270'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>280'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>290'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>300'</td>
<td></td>
<td></td>
</tr>
<tr>
<td>320'</td>
<td>Temp 45°</td>
<td></td>
</tr>
<tr>
<td>330'</td>
<td>Temp 46°</td>
<td></td>
</tr>
<tr>
<td>340'</td>
<td>Temp 43°</td>
<td></td>
</tr>
<tr>
<td>350'</td>
<td>Temp 44°</td>
<td></td>
</tr>
<tr>
<td>360'</td>
<td>Temp 42°</td>
<td></td>
</tr>
<tr>
<td>370'</td>
<td>Temp 42°</td>
<td></td>
</tr>
<tr>
<td>380'</td>
<td>Temp 46°</td>
<td></td>
</tr>
<tr>
<td>390'</td>
<td>Temp 47°</td>
<td></td>
</tr>
<tr>
<td>400'</td>
<td>Temp 45°</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Shut Down Rig</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Depth @</th>
<th>AM/PM</th>
<th>Total Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>147</td>
</tr>
</tbody>
</table>

Drilling Fluid:

- [ ] Mud - Additives
- [x] Air - Pressure P.S.I. Additives

Weather Report:

8071-NSFM

Observer: C.A. White
NORTHWEST GEOTHERMAL CORPORATION

DRILLING LOG

Contractor: American Deep Drilling
Location: Timberline Lodge
Well #: 71-7

Report #: 11
Date: 8/17/78

Depth @ 3:30 AM (PM)

Log:
Repaired draw motor and came out of hole with bit; apparently hole was in good shape as бop out was uneventful. Bit un damaged, all inserts in place.

Temperature measurements attempted but uncertain as to whether probe ever got to T.D. Three tries resulted in tangled cable each time. All points showed 2.91-2.98°C. Could hear water cascading to lower levels.

Depth @ 6:00 AM (PM)

Total Footage

400 ft.

Drilling Fluid:
☐ Mud - Additives
☐ Air - Pressure - P.S.I. - Additives

Weather Report: Cloudy, Cold

8071-NS

Observer: [Signature]

400
NORTHWEST GEOTHERMAL CORPORATION

DRILLING LOG

Contractor: American Deep Drilling
Location: Timberline Lodge
Well #: 71-7

Report #: 12
Date: Aug 18, 1978

Depth @ 2' AM/PM
Log: SET SURFACE CASING

Formation | 400 ft.
----------|----------

Report #13 8/19/78
Cemented SURFACE CASING
Cement did not return to surface

Report #14 8/21/78
Cemented ANNULAR SPACE BETWEEN CASING
4 HOLE TO SURFACE

Report #15 8/22/78
REQUEST 150F FOR USCS.
Depth @ AM/PM

Total Footage

Drilling Fluid:
☐ Mud - Additives
☐ Air - Pressure P.S.I. Additives

Weather Report

Observer

3071-NS
### NORTHWEST GEOTHERMAL CORPORATION

**DRILLING LOG**

**Contractor:** American Deep Drilling  
**Location:** Timberline Lodge  
**Well #**

<table>
<thead>
<tr>
<th>Depth @ AM/PM</th>
<th>Formation</th>
<th>ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:00 AM</td>
<td>600'</td>
<td></td>
</tr>
<tr>
<td>6:10 PM</td>
<td>610' Sample</td>
<td></td>
</tr>
<tr>
<td>7:15 AM</td>
<td>720' Sample - Flow</td>
<td></td>
</tr>
<tr>
<td>8:20 AM</td>
<td>830' - Flow</td>
<td></td>
</tr>
<tr>
<td>9:30 AM</td>
<td>940' Oxidized Flow</td>
<td></td>
</tr>
<tr>
<td>9:36 AM</td>
<td>950'</td>
<td></td>
</tr>
<tr>
<td>10:10 AM</td>
<td>1060'</td>
<td></td>
</tr>
<tr>
<td>10:16 AM</td>
<td>1070'</td>
<td></td>
</tr>
<tr>
<td>10:45 AM</td>
<td>Hole Filling In - 3.5'</td>
<td></td>
</tr>
</tbody>
</table>

**Drilling Fluid:**

- [ ] Mud - Additives
- [ ] Air - Pressure P.S.I. Additives

**Weather Report**

8071-NS  
Observor CPH 16 White
NORTHWEST GEOTHERMAL CORPORATION

DRILLING LOG

Contractor: AMERICAN DIP DRILLING
Report #

Location: TIMAIRING LODGE
Date: 8/18/1

Well #

Depth @ AM/PM
Log:
6:30 START UP - DRILLING 560'
6:45 - 570'
7:00 - 580'
7:45 - 590 - SOAP T = 59°F
8:05 - 600
9:00 - 610 BEGIN PULLING OUT OF HOLE FOR BIT CHANGE
12:00 - FINISH PULLING OUT

Time Depth(m) T°C R
12:30 150 7.8 6882
12:35 140 7.75 6899
12:40 130 7.74 6892
12:47 120 9.08 5747
12:54 110 9.92 5711
12:54 100 11.66 5340
13:00 90 7.75 6296

HOLE BLOCKED C:120 150 METERS

Depth @ AM/PM

Formation

Total Footage

Drilling Fluid:
☐ Mud - Additives
☐ Air - Pressure P.S.I. Additives

Weather Report

8071-NS Observer
## DRILLING LOG

**Contractor:** American Deep Drilling  
**Location:** Tim Grinnell Lodge  
**Date:** 8/30/78

<table>
<thead>
<tr>
<th>Depth @ AM/PM</th>
<th>Formation</th>
<th>ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:00 START UP - DRILL OUT CEMENT</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>12:00 - 465' BEGIN BRINGING UP</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>ANDESITE - CEMENT DID NOT PENETRATE BELOW THIS LEVEL</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>11:00 - 490' ANDESITE</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>11:45 - 510' ANDESITE</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>12:00 - 530' OXIDIZED ROCK</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>12:30 - 550'</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>12:35 - 570'</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>13:35 - 590'</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14:05 - 610' SAMPLE</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14:20 - 620' SAMPLE</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14:35 - 630'</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>14:50 - 640'</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

**Total Footage:**

**Drilling Fluid:**

- [ ] Mud - Additives
- [ ] Air - Pressure P.S.I. Additives

**Weather Report:** 8071-NS  
**Observer:** Craig White
NORTHWEST GEOTHERMAL CORPORATION

DRILLING LOG

Contractor: American Deep Drilling
Location: Timberline Lodge
Well #:

Report #
Date: 8/25/78

Depth @ 03 AM/PM

Formation: 650 ft.

Log:
647' Rk Type Change
To Soft Unit. Lt Gray Andesite Phenocrysts PC
Drilled fast to 670', 20' in 20 min.
3:35 pm New Connection
3:42 pm Down another 20'
686' - 690' 20% of cuttings red orange micasite

3:40 pm Air Return Temp 58°
3:50 pm To 4 pm Another 20'
Same Material to 710'
Same Drilling Rate to 730'
At 720' 40% of cuttings showed a yellow tan weathering Rind?
Some Rk's Yellow tan all the way through

Depth @ AM/PM

Total Footage:

Drilling Fluid:

☐ Mud - Additives

☒ Air - Pressure P.S.I. Additives quik form

Weather Report

8071-NS
Observer: J Meyer
NORTHWEST GEOThERMAL CORPORATION

DRILLING LOG

Contractor: AMERICAN DEEP DRILLING
Location: Tumculee Lodge
Well #: 

Report # 
Date: 8/25/78

Depth @ 5 AM/PM
Log: LOST TAN YELLOW FRAG AT 720. 720 TO 740' DRILLED THROUGH A WELLED TUFF LT GRAY
740-750 BACK TO 440°/D RED ORANGE PORPHYRITIC ANDESITE 960°/D DK GRAY (V.O.F.)
PORPHYRITIC ANDESITE.

DRILLING RATE STILL 20'/10 MIN
5:18 PM CONNECTION DOWN 20'/10 MIN
5:28 PM CONNECTION DOWN 20'/10 MIN
750-760 SAME AS 740-750
760-770 RED ORANGE FRAC. FINE GRADE DRILLER REPORTS THAT 765' WELL STARTED
MAX WAT 60-70 G.P/ MIN 53°F
"GRUMLY FORMATION" 770°/D HAD HARDENED
770-780 DK GRAY-BLACK ANDESITE

Depth @ 60 AM/PM
Total Footage

Formation
750 ft.

Drilling Fluid:
☐ Mud - Additives
☐ Air - Pressure 150 P.S.I.
P.S.I. 150 Additives quick form

Weather Report: SNWRS Temp 40°

Observer: J. Mega

8071-NS
**NORTHWEST GEOTHERMAL CORPORATION**

**DRILLING LOG**

<table>
<thead>
<tr>
<th>Contractor</th>
<th>American Deep Drilling</th>
<th>Report #</th>
</tr>
</thead>
<tbody>
<tr>
<td>Location</td>
<td>Timberline Lodge</td>
<td>Date</td>
</tr>
<tr>
<td></td>
<td></td>
<td>8/25/78</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Depth @</th>
<th>6 PM</th>
<th>Formation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>6:05 PM return form-water temp 46°F</td>
<td></td>
</tr>
<tr>
<td></td>
<td>drill stoppage at hole was caving, hole saves at 771'</td>
<td></td>
</tr>
<tr>
<td></td>
<td>drillers estimate hole is making 100gal/min. @ 43°F</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Depth @</th>
<th>AM/PM</th>
<th>Total Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>115'</td>
</tr>
</tbody>
</table>

**Drilling Fluid:**

- [ ] Mud - Additives
- [x] Air - Pressure 150 P.S.I. Additives *Quick foam*

**Weather Report**

- Rain
- Temp 40

2071-NS

Observer: J. Meyer
NORTHWEST GEOTHERMAL CORPORATION
DRILLING LOG

Contractor: American Deep Drilling
Location: Timberline Lodge
Well #__________

Report #:__________ Date: 8/31/78

Depth @ 4 AM/PM

Log:

- Started drilling out cement at 4 pm.
- At 670', drilled out of cement into rock.
- Drilled rock of the same description as previously drilled until 755'.
- Drilled until 755', drill went back into hole. At 770', it appears that the cement never got down as hole is making as much water as before.

9-1-78

Drill pipe stuck at 750' while squeezing water bearing formation at 770'.

Formation:__________ 370 ft.

Total Footage:__________

Drilling Fluid:

☐ Mud - Additives
☐ Air - Pressure 175 P.S.I. Additives quick foam

Weather Report: foggy 42°F

8071-NS Observer:______

< 9/1/78
NORTHWEST GEOTHERMAL CORPORATION
DRILLING LOG

Contractor: American Deep Drilling
Location: Timberline
Well #: 

Report #: 
Date: 9-13-78

Depth @ 8 PM
Log: Found cement at 397'
Drilled out of cement into new hole at 477', litulogy
As described before
Red oxidation @ 719' + 159' PM
Hard dark grey andesite
starts @ 760. Few red
fragments in cuttings.
Drilling rate 5 min/ft.
Water increase 820-840
W 7th red andesite cubbles blowing
out of hole.
Yellow silica @ 850
Shut down @ 860
@ 7:30 PM, pulled
tools till ______

Depth @ ______ AM/PM

1½ in.

Total Footage 860

Drilling Fluid:

☐ Mud - Additives
☒ Air - Pressure P.S.I. ______ Additives Dark Grey

Weather Report: Rain 43°

8071-NS
Observer: _______
**NORTHWEST GEOTHERMAL CORPORATION**

**DRILLING LOG**

**Contractor:** American Deep Drilling  
**Location:** Timberline  
**Well #:**

**Report #:**

**Date:** 9-14-78

<table>
<thead>
<tr>
<th>Depth @ 11 AM/PM</th>
<th>707 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 1/2 hrs. ------</td>
<td>---------</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Log: Cemented hole</th>
<th>570 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 to 2 PM. ------</td>
<td>---------</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Depth @ 11 AM/PM</th>
<th>707 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 1/2 hrs. ------</td>
<td>---------</td>
</tr>
</tbody>
</table>

**Formation**

- Cement
- Rock

**Drilling Fluid:**
- Mud - Additives
- Air - Pressure P.S.I. Additives Foam

**Weather Report:** Cold - Fog w/ Clearing Periods

**Observer:** J.W. Hook
NORTHWEST GEOTHERMAL CORPORATION

DRILLING LOG

Contractor: America Deep Drilling
Location: ____________
Well #: ____________

Report #: ____________
Date: 9-15-__

Depth @ 7 AM/PM

Log:
Drilled to 270
10' into hard black andesite. Hole was
water, about 40-50 gpm to 760 in rubble
zone. Shut down
about 10 AM to wait
for Cement (due @ 3 pm),
generally nice

Depth @ __________ AM/PM
3hr. Total Footage

Drilling Fluid:
☐ Mud - Additives ____________
☐ Air - Pressure ____________ P.S.I. ____________ Additives ____________


8071-NS
Observer: ____________
NORTHWEST GEOTHERMAL CORPORATION

DRILLING LOG

Contractor: American Deep Driller
Location: Imla Creek Lodge

Well #___________

Report #___________ Date: 9-20-78

Repaired Rig 9-18 & 9-19-78

Depth @ ___________ AM/PM

Log:
- Found cement @ 690'
- 708' cement & riser, 60½/4½'
- 725 cement & rock ~ 30%/70%
- 730 out of cement ~ 100% depleted

Andesite - fence barrier zone 2 -

Water flow increases here

Drilled to 770' - still making water
Cemented - 20 acre cement @ 5
days (20 cuft) Zone 1

Depth @ ___________ AM/PM

Total Footage

Drilling Fluid:
- □ Mud - Additives
- □ Air - Pressure 175 P.S.I. Additives Quick Foam

Weather Report: Fair - sun on ground

8071-NS Observer: J. Meyer
NORTHWEST GEOTHERMAL CORPORATION
DRILLING LOG

Contractor: American Drop Drilling
Location: Time Line Lodge
Well #: 

Report # 
Date: 9/21/72

Depth @ AM/PM

Log: Drilled out cement, Sustained
Sealed water at ~760'. Drilled
To 380', stopped to cement
Maxing water at 800-820'
Cemented 4 bags cement 1/2 bag
carbonite/barrel (40 socks)

Formation

Total Footage

Drilling Fluid:
☐ Mud - Additives
☐ Air - Pressure 175 P.S.I. Additives QUIK FOAM

Weather Report: Cloudy

8071-NS Observer: J. May
Contractor: American Deep Drilling
Location: Timbersline Lodge
Well #

<table>
<thead>
<tr>
<th>Depth @ AM/PM</th>
<th>Formation</th>
<th>ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Drilled out cement</td>
<td>800'</td>
<td></td>
</tr>
<tr>
<td>Found cement at 800', drilled to 810', hit water</td>
<td>found soft cement at 850', stopped drilling</td>
<td></td>
</tr>
<tr>
<td>Cemented again, 60 sacks + 20 more</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Depth @ AM/PM

Total Footage

Drilling Fluid:

- [ ] Mud - Additives
- [ ] Air - Pressure  P.S.I.  Additives

Weather Report: Rainy Cold

Observer: J Meyer

Report #: 9/22/78
## NORTHWEST GEOTHERMAL CORPORATION

### DRILLING LOG

**Contractor:** American Deep Drilling  
**Location:** Timbervale, Wash.  
**Well #:**

**Date:** 9-23-78  
**Report #:**

### Depth @ AM/PM

<table>
<thead>
<tr>
<th>Depth</th>
<th>Formation</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td></td>
</tr>
</tbody>
</table>

**Log:** Found Top of cement plug at 6'20'  
**Bottom at 850':** Strings of cement  
**To 880':**

880-890: Yellow Tan altered breccia  
As before  
890-900: Rock same as above  
Some fresh med gray chips of andesite, formation hardened at 895'  
Making water at about 2-3 gal/min  
900-910: Same, breccia unit, chips show oxidized rims, med gray green  
Porphyritic andesite pheno of po, in centers of boulders  

**10'1/min drilling rate**  
**910-920': Same, So-so tan + 'green'**  
**Andesite is altered to green gray**  

**Celadonites? Water 10.54' 1/min**

### Total Footage

<table>
<thead>
<tr>
<th>Depth @ AM/PM</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
</tbody>
</table>

**Drilling Fluid:**

- [ ] Mud - Additives  
- [x] Air - Pressure 190 P.S.I. Additives

**Weather Report:** Cloudy  
**Observer:** J. Meyn
NORTHWEST GEOTHERMAL CORPORATION

DRILLING LOG

Contractor: American Deep Drilling
Location: Timberline Lodge
Well #: __________

Report #: __________  Date: 9/26/78

Depth @ 6 AM/PM

Log:
- Cemented hole, 4 barrels
- 4 sacks cement 1 cement/1 barrel
- Curing Time 8 hrs
- More cement

9/26/78

8:30 Drilled out cement to 940 ft

Moderate water flow

940'-950' Fast drilling thru top of Annisite flow, ~953' Rate slows down - hard, dense, flow.

Stop for cement at 960'

9/27

Cement again - drill out partially in late PM

9/28

Drilling out cement

Depth @ __________ AM/PM

Total footage

Drilling Fluid:
- Mud - Additives
- Air - Pressure P.S.I. Additives

Weather Report: Fair

8071-NS Observer: __________
NORTHWEST GEOTHERMAL CORPORATION
DRILLING LOG

Contractor: American Deep Drilling
Location: Timberline Lodge
Well #: ___

Report #: ___
Date: 10-3-78 +10/4

<table>
<thead>
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<th>AM/PM</th>
<th>Formation</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>ft.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
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<td></td>
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</tr>
</tbody>
</table>

Log: Cemented hole at 900' with 4 barrels of cement.

Results of Temp Survey of 10-2-78:
- State level between 225m - 250m
  - 250 m 12.14°C
  - 275 m 12.21°C
  - 300 m 12.54°C 57°F

10-4-78
- Drilled out cement 40 cement at 900'
- Attempted temp logs bridge at 950'
- Suspended temp survey
- Switched from air to mud

Total Footage: ___

Drilling Fluid:
- [ ] Mud - Additives ___
- [ ] Air - Pressure ___ P.S.I. ___ Additives ___

Weather Report: Sunny

8071-NS
Observer: ___
### Northwest Geothermal Corporation
#### Drilling Log

**Contractor:** American Deep Drilling  
**Location:** Timberline Lodge  
**Well #1**  
**Date:** 10-5-78

<table>
<thead>
<tr>
<th>Depth @</th>
<th>AM/PM</th>
<th>Formation</th>
<th>ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1150'</td>
<td>AM</td>
<td>LT gray andesite, 15% res.</td>
<td></td>
</tr>
<tr>
<td>15 PM</td>
<td>-</td>
<td>Brown oxidized andesite</td>
<td></td>
</tr>
<tr>
<td>1700'</td>
<td>PM</td>
<td>Mud, 47°F</td>
<td></td>
</tr>
<tr>
<td>1710'</td>
<td></td>
<td>Drilling @ 1160'</td>
<td></td>
</tr>
<tr>
<td>1726'</td>
<td></td>
<td>Sample from 1160', same as above</td>
<td></td>
</tr>
<tr>
<td>1800'</td>
<td></td>
<td>Mud out, 48°F</td>
<td></td>
</tr>
<tr>
<td>1805'</td>
<td></td>
<td>Drilling @ 1170'</td>
<td></td>
</tr>
<tr>
<td>1816'</td>
<td></td>
<td>Sample from 1170', similar with considerable calcite</td>
<td></td>
</tr>
<tr>
<td><em>Sample from 1180 by driller</em></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1900'</td>
<td></td>
<td>Mud out, 49°F</td>
<td></td>
</tr>
<tr>
<td>1905'</td>
<td></td>
<td>Drilling @ 1190</td>
<td></td>
</tr>
<tr>
<td>1916'</td>
<td></td>
<td>Sample from 1190-red</td>
<td></td>
</tr>
</tbody>
</table>

**Drilling Fluid:**
- [ ] Mud - Additives
- [ ] Air - Pressure  
  - P.S.I.  
  - Additives

**Weather Report:** Fair

8071-NS  
**Observer:** J. Meyer, J. Book
# Northwest Geothermal Corporation

## Drilling Log

**Contractor:** Cannix Deep Drilling  
**Location:** Timberline Lodge  
**Well #1:**  
**Report #:**  
**Date:** 10-5-78  
**Cont'd:**

<table>
<thead>
<tr>
<th>Depth @</th>
<th>AM/PM</th>
<th>Log</th>
</tr>
</thead>
<tbody>
<tr>
<td>1923</td>
<td>drilng @ 1200</td>
<td>1924 sample from 1200, gray and red (40%) and white.</td>
</tr>
<tr>
<td>Samples @ 1200 by drill - gray and white, less the 10% red.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2000</td>
<td>mud out 50°F</td>
<td>2005 drilling @ 1230'</td>
</tr>
<tr>
<td>2016</td>
<td>sample from 1230' - some.</td>
<td></td>
</tr>
<tr>
<td>2020</td>
<td>drilling @ 1240'</td>
<td></td>
</tr>
<tr>
<td>2032</td>
<td>sample from 1240'</td>
<td></td>
</tr>
<tr>
<td>2325</td>
<td>drilling 1260</td>
<td></td>
</tr>
<tr>
<td>2310</td>
<td>drilling 1280</td>
<td></td>
</tr>
<tr>
<td>0008</td>
<td>drilling 1300</td>
<td></td>
</tr>
<tr>
<td>00:00</td>
<td>mud out 50°F</td>
<td></td>
</tr>
<tr>
<td>01:17</td>
<td>drilling 1320</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Depth @</th>
<th>AM/PM</th>
<th>Total Footage</th>
</tr>
</thead>
</table>

**Drilling Fluid:**
- [ ] Mud - Additives
- [ ] Air - Pressure P.S.I. Additives

**Weather Report:**

8071-NS  
**Observer:** Hook - White
LITHOLOGY LOG
NORTHWEST GEOTHERMAL CORPORATION

DRILLING LOG

Contractor ____________________________  Report # ____________________________
Location TIMBLINE HOLE #3  Date ____________________________
Well # ____________________________

<table>
<thead>
<tr>
<th>Depth @ AM/PM</th>
<th>Formation</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 ft.</td>
<td>0</td>
</tr>
<tr>
<td>20</td>
<td></td>
</tr>
<tr>
<td>30</td>
<td></td>
</tr>
<tr>
<td>40</td>
<td></td>
</tr>
<tr>
<td>50</td>
<td></td>
</tr>
<tr>
<td>60</td>
<td></td>
</tr>
<tr>
<td>70</td>
<td></td>
</tr>
<tr>
<td>80</td>
<td></td>
</tr>
</tbody>
</table>

Drilling Fluid:
☐ Mud - Additives ____________________________
☐ Air - Pressure P.S.I. __________________ Additives __________________

Weather Report ____________________________

8071-NS  Observer CRAIG WHITE
NORTHWEST GEOTHERMAL CORPORATION
DRILLING LOG

Contractor
Location **TIMBERLINE #3**
Well #
Report #
Date

<table>
<thead>
<tr>
<th>Depth @ AM/PM</th>
<th>Log: <strong>LIGHT GRAY ANDISITE FLOW - LARGE</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>FLAG PHINOS, ABUNDANT MOLY TO</strong></td>
</tr>
<tr>
<td></td>
<td><strong>MEDIUM BROWN CPX PHINOS, LESS</strong></td>
</tr>
<tr>
<td></td>
<td><strong>ABUNDANT GREEN-BROWN XTAIS ARE</strong></td>
</tr>
<tr>
<td></td>
<td><strong>PROBABLY CPX. SUBARY MATRIX IS</strong></td>
</tr>
<tr>
<td></td>
<td><strong>GRAY W/ V. FINE BLACK XTAIS -</strong></td>
</tr>
<tr>
<td></td>
<td><strong>PROBABLY CPAGUZ ORZ.</strong></td>
</tr>
<tr>
<td></td>
<td>(HOMOGENEOUS SAMPLE FOR ANALYSIS)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Formation</th>
<th>80 ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>90</td>
</tr>
<tr>
<td></td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>110</td>
</tr>
<tr>
<td></td>
<td>120</td>
</tr>
<tr>
<td></td>
<td>130</td>
</tr>
<tr>
<td></td>
<td>140</td>
</tr>
<tr>
<td></td>
<td>150</td>
</tr>
<tr>
<td></td>
<td>160</td>
</tr>
</tbody>
</table>

Depth @ AM/PM

Total Footage

Drilling Fluid:

- [ ] Mud - Additives
- [ ] Air - Pressure __________ P.S.I. Additives

Weather Report

8071-NS
Observer CRAIG WHITE
NORTHWEST GEOTHERMAL CORPORATION

DRILLING LOG

Contractor ____________________________________________

Location Timbuktu DH #3

Well # ____________

Depth @ AM/PM

Log: __________________________

Formation

| Flow #1 | 180 ft. |
| Flow #2 |       |
| Flow #3 |       |

160 ft.

170 ft.

190 ft.

200 ft.

210 ft.

230 ft.

240 ft.

 Depths & Oxidized Anodized

100% Oxidized - Probably Flow

Brick at Base of Flow # 2

Kiondza Blood Anodized, Viscous

W/ Small Phases of PX & Large Phases

Total Footage

Drilling Fluid:

☐ Mud - Additives

☐ Air - Pressure P.S.I. Additives

Weather Report

8071-75

Observer CRAIG WHITE
NORTHWEST GEOTHERMAL CORPORATION
DRILLING LOG

Contractor ___________________________ Report # ____________
Location ______________________________ Date __________________
Well # ________________________________

Depth @ ______________ AM/PM

Log: CONTINUED FLOW #3

<table>
<thead>
<tr>
<th>Formation</th>
<th>Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>240 ft.</td>
</tr>
<tr>
<td>~ ~ ~ ~ ~</td>
<td></td>
</tr>
<tr>
<td>~ ~ ~ ~ ~</td>
<td>250</td>
</tr>
<tr>
<td>~ ~ ~ ~ ~</td>
<td></td>
</tr>
<tr>
<td>~ ~ ~ ~ ~</td>
<td>260</td>
</tr>
<tr>
<td>~ ~ ~ ~ ~</td>
<td></td>
</tr>
<tr>
<td>~ ~ ~ ~ ~</td>
<td>270</td>
</tr>
<tr>
<td>~ ~ ~ ~ ~</td>
<td></td>
</tr>
<tr>
<td>~ ~ ~ ~ ~</td>
<td>280</td>
</tr>
<tr>
<td>~ ~ ~ ~ ~</td>
<td></td>
</tr>
<tr>
<td>~ ~ ~ ~ ~</td>
<td>290</td>
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<td>~ ~ ~ ~ ~</td>
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<tr>
<td>~ ~ ~ ~ ~</td>
<td>300</td>
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<td>~ ~ ~ ~ ~</td>
<td></td>
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<tr>
<td>~ ~ ~ ~ ~</td>
<td>310</td>
</tr>
<tr>
<td>~ ~ ~ ~ ~</td>
<td></td>
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<tr>
<td>~ ~ ~ ~ ~</td>
<td>320</td>
</tr>
<tr>
<td>~ ~ ~ ~ ~</td>
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</tr>
</tbody>
</table>

INCREASE IN % OF OXIDIZED
FRAGMENTS - FLOW ARTICUL

LIGHT GRAY ANDESITE W/ LARGE
PIAG PHNOS, SMALL BROWN OPH.
RARE LARGE GREEN CPX, LIGHT
GRAY-FINE GRAINED MATRIX

Depth @ ______________ AM/PM

Total Footage

Drilling Fluid:

☐ Mud - Additives ________________________
☐ Air - Pressure _______________________ P.S.I. ____________ Additives ____________

Weather Report ________________________

2071-NS ____________________________ Observer ____________________________
### NORTHWEST GEOTHERMAL CORPORATION

### DRILLING LOG

**Contractor** _____________________________  
**Location** _______________________________  
**Well #** _________________________________  
**Report #** _______________________________  
**Date** _________________________________

**Depth @** ___________ AM/PM

**Log:** Oxidized Anhydrite, Fluid H4  
**Type:** MAJOR CONSTITUENT BUT  
**Other Anhydrides Type 12 Also Occur—**  
**May Be A Laminar**

Highly Oxidized - Large % of 
Black Gray Anhydrite

Continued Oxidized Rock - But 
5% High % of light Gray Anhydrite.

**Formation** | **Footage**
--- | ---
300 | ft.
330 |  
340 |  
350 |  
360 |  
370 |  
380 |  
390 |  
400 |  

**Depth @** ___________ AM/PM

**Total Footage.**

**Drilling Fluid:**

- [ ] Mud - Additives
- [ ] Air - Pressure P.S.I. Additives

**Weather Report** _____________________________  
8071-NS  
**Observer** _______________________________
# Northwest Geothermal Corporation

## Drilling Log

### Contractor:

### Location:

### Well #:

### Depth @ AM/PM:

### Log:
- Dense Medium-Light Gray
- Andesite w/ Large Plagiophyric Phases
- Brown Px - 2 Px Typical Are Not
- Apparent Matrix Is Gray w/ Molded Pink Oxidized Portions

### Flow Attributes:
- Flow 5
- Flow 4

### Vesicular Medium Gray-Pink
- Andesite - Fine, Brown Opyx, Green Cpx
- Phases

### Depth @ AM/PM

### Total Footage

### Drilling Fluid:
- □ Mud - Additives
- □ Air - Pressure 0.0 P.S.I. Additives

### Weather Report

8071-NS

Observer
# Northwest Geothermal Corporation
## Drilling Log

### Contractor: __________________________ Report #: __________________________

### Location: __________________________ Date: __________________________

### Well #: __________________________

<table>
<thead>
<tr>
<th>Depth @</th>
<th>AM/PM</th>
<th>Formation</th>
</tr>
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<tbody>
<tr>
<td>~ ~</td>
<td></td>
<td>450 ft.</td>
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<tr>
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<td></td>
<td>490</td>
</tr>
<tr>
<td>~ ~</td>
<td></td>
<td>500</td>
</tr>
<tr>
<td>~ ~</td>
<td></td>
<td>510</td>
</tr>
<tr>
<td>~ ~</td>
<td></td>
<td>520</td>
</tr>
<tr>
<td>~ ~</td>
<td></td>
<td>530</td>
</tr>
<tr>
<td>~ ~</td>
<td></td>
<td>540</td>
</tr>
<tr>
<td>~ ~</td>
<td></td>
<td>550</td>
</tr>
<tr>
<td>~ ~</td>
<td></td>
<td>560</td>
</tr>
</tbody>
</table>

### Drilling Fluid:

- [ ] Mud - Additives __________________________
- [ ] Air Pressure __________________________ P.S.I. __________________________

### Weather Report

8071-NS __________________________ Observer: __________________________
NORTHWEST GEOTHERMAL CORPORATION
DRILLING LOG

Contractor ___________________________ Report # __________________
Location _______________________________ Date ____________________
Well # ________________________________

Depth @ __________ AM/PM
Log: CONTINUOUS FLOW # 7

FRESH GRAY ANDESITE FLOW # 7

Formation
560 ft.
570
580
590
600
610
620
630
640

Depth @ __________ AM/PM
Total Footage

Drilling Fluid:
☐ Mud - Additives __________________
☐ Air - Pressure ______ P.S.I. ______ Additives

Weather Report ________________________ Observer ____________________
8071-NS
NORTHWEST GEOTHERMAL CORPORATION
DRILLING LOG

Contractor ____________________________________________

Location _____________________________________________

Well # ________________________________

Report # ____________________________

Date ________________________

Depth @ ___________ AM/PM

Log: CONTINUOUS FRASHER GRAY ANDOSITE

FILL H 7

SOME OXIDIZED GRAY FLOOD IN

RETURN FROM 6550'

MIXTURE OF GRAY FLOOD, BLACK-
BROWN CLAY, ANDOSITE, OXIDIZED
ROCK, LAMAR OR INTERFLOW DIABAS.

ABUNDANT COARSELY PORPHYRITIC

BLACK TO DARK GRAY ANDOSITE W/ OXIDIZED FRAGMENTS

Depth @ ___________ AM/PM

Total Footage

Drilling Fluid:

☐ Mud - Additives

☐ Air - Pressure _______ P.S.I. Additives

Weather Report _______________________________________

8071-NS ________________________________ Observer ________________________________
NORTHWEST GEOTHERMAL CORPORATION
DRILLING LOG

Contractor ___________________________ Report # ___________________________
Location ______________________________ Date ______________________________
Well # ________________________________

Depth @ __________________ AM/PM

Log: CONTINUOUS FLOW 7/1/81 0810220

ROCK - FLOW BRECICIA

---

FRISH DARK GRAY ANDESITE,
LARGE FIF6 CRYSTALS, INCONSPICUOUS
DARK BROWN PX. PHIZOS,

---

Depth @ __________________ AM/PM

---

Total Footage

Drilling Fluid:
☐ Mud - Additives
☐ Air - Pressure P.S.I. Additives

Weather Report ____________________________ Observer _______________________

8071-NS
**Contractor**

**Location**  
Timberline Hill # 2

**Well #**

**Report #**

**Date**

---

**Depth @** AM/PM

**Log:** Mixed Sampling w/ Large Proportion of Gray Anisite - Probably Drilling out back fill as this rock is identical to Flow 7

**Formation**

<table>
<thead>
<tr>
<th>Depth @ AM/PM</th>
<th>Total Footage</th>
</tr>
</thead>
<tbody>
<tr>
<td>800 ft.</td>
<td></td>
</tr>
<tr>
<td>810</td>
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<tr>
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</tr>
<tr>
<td>860</td>
<td></td>
</tr>
<tr>
<td>870</td>
<td></td>
</tr>
</tbody>
</table>

**Mixing of at least 3 Varieties of Anisite & Oxidized Rock - Lachar**

**Rock** - Large Proportion of Very Light Colored Anisite - Altered to Yellow in Groundmass -

**Depth @** AM/PM

**Drilling Fluid:**

- [ ] Mud - Additives
- [ ] Air - Pressure

**P.S.I. Additives**

**Weather Report**

8071-NS

**Observer** Craig W. [signature]