

GTHT - _____002_____

WELL

GT-1

OK

ATTACHMENT 3.A.
OIL CONSERVATION DIVISION

2040 S. Pacheco
SANTA FE, NEW MEXICO 87501

Form G-103
Adopted 10-1-
Revised 10-1-

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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Land Office		

SUNDRY NOTICES AND REPORTS
ON
GEOTHERMAL RESOURCES WELLS

Federal Land Use
Agreement

5. Indicate Type of Lease
State Fee
5.a State Lease No.

Do Not Use This Form for Proposals to Drill or to Deepen or Plug Back to a Different Reservoir. Use "Application For Permit -" (Form G-101) for Such Proposals.)

1. Type of well Geothermal Producer <input type="checkbox"/> Temp. Observation <input checked="" type="checkbox"/> Low-Temp Thermal <input type="checkbox"/> Injection/Disposal <input type="checkbox"/>	7. Unit Agreement Name Fenton Hill
2. Name of Operator Los Alamos National Laboratory	8. Farm or Lease Name
3. Address of Operator P.O.Box 1663 Los Alamos, NM 87545	9. Well No. GT-1
4. Location of Well Unit Letter _____ 403 Feet From The East Line and 1,253 Feet From The South Line, Section 1 Township 19N Range 2E NMPM.	10. Field and Pool, or Wildcat
15. Elevation (Show whether DF, RT, GR, etc.) 8,475'	12. County Sandoval

16. Check Appropriate Box To Indicate Nature of Notice, Report or Other Data

<p>NOTICE OF INTENTION TO:</p> <p>PERFORM REMEDIAL WORK <input type="checkbox"/> PLUG AND ABANDON <input checked="" type="checkbox"/></p> <p>TEMPORARILY ABANDON <input type="checkbox"/></p> <p>PULL OR ALTER CASING <input type="checkbox"/> CHANGE PLANS <input type="checkbox"/></p> <p>OTHER <input type="checkbox"/></p>	<p>SUBSEQUENT REPORT OF:</p> <p>REMEDIAL WORK <input type="checkbox"/> ALTERING CASING <input type="checkbox"/></p> <p>COMMENCE DRILLING OPNS. <input type="checkbox"/> PLUG & ABANDONMENT <input type="checkbox"/></p> <p>CASING TEST AND CEMENT JOB <input type="checkbox"/></p> <p>OTHER _____</p>
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17. Describe Proposed or completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work) SEE RULE 203.

Attempt to pull 5" casing. If unsuccessful, set 5" bridge plug at 2,300' and set 100 linear foot cement plugs above and below bridge plug. Fill hole with 9.5 ppg mud. Cut 5" casing at 1,300' and remove. Set 7-5/8" bridge plug at 1,250' and set 100 linear foot cement plugs above and below bridge plug. Fill hole with 9.5 ppg mud. Set 100 linear foot plug at surface. Cut off casing 6' below ground level and weld plate with well name on top. Cover wellhead and restore location to original condition. See attached detailed procedures and casing schematic.

It is estimated that this proposed work may start in late July, 1996.

18. I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNED James A. Albright TITLE ES&G GROUP LEADER DATE 6/24/96
DISTRICT SUPERVISOR whitaker

ATTACHMENT 3.B.

Los Alamos National Laboratory
Fenton Hill Hot Dry Rock Test Site

Well Abandonment Procedure
Well: GT-1

ThermaSource, Inc.

5-21-96

Pertinent Well Data

1. Well Completed 6-30-72.
2. Total Depth is 2575' in Precambrian amphibolite.
3. 10-3/4" casing set at 258' in a 13-3/4" hole. Cement information was not available.
4. 7-5/8" casing set at 1357' in a 9-7/8" hole which was drilled to 1600'. Cement information was not available.
5. 5" casing set at 2400' in a 6-3/4" hole. Cement information was not available.
6. 4" open hole drilled from 2400' to 2430' and 4-1/4" hole then opened to 2430' and drilled to 2575'.
7. Approximate water levels in hole at 320' in 1972 and 480' in 1973.

Time Sequence of Operations

1. Move in rig and center same over well.
- 6 hours 2. Nipple up necessary blow out preventer stack.
- 10 hours 3. Since no cement information is available, rig up and attempt to pull 5" casing. If success then pull same out of hole and lay down same.
- 10 hours If unsuccessful then pick up 4-1/4" bit and run in hole with bit on 2-3/8" tubing to check for fill or obstructions. Then pick up 5" bridge plug and run in hole with same and set plug at 2300'. Mix and pump cement below bridge plug and dump enough cement to fill 100 linear feet of 5" casing. Mix and fill hole with heavy non-corrosive gel mud. Trip out of hole and pick up 5" casing cutter. Run in hole and cut 5" casing at 1300'. Pull out of

ATTACHMENT 3.B. (cont'd)

Los Alamos National Lab.
Fenton Hill HDR
GT-1
5-21-96
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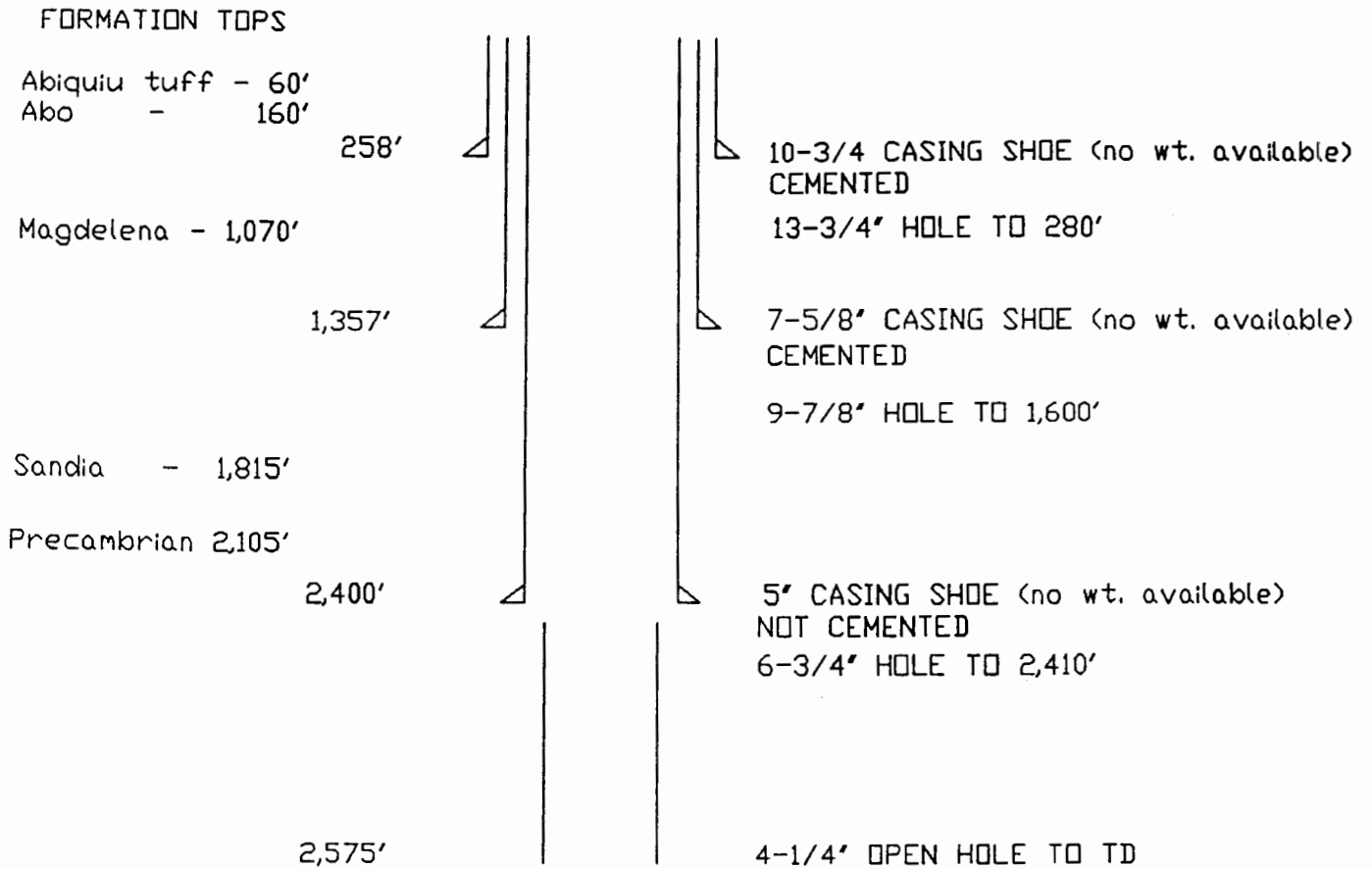
- hole and lay down casing cutter. Pull and lay down 5" casing from cut upward.
- 6 hours 4. Pick up 6-7/8" bit and run into 7-5/8" casing to check for fill or obstructions.
- 6 hours 5. Pick up 7-5/8" bridge plug and run in hole with same. Set bridge plug at 1250' (50' above casing stub.
- 4 hours 6. Mix and pump cement below bridge plug and dump enough cement to fill 100 linear feet of 7-5/8". Pull above cement, mix and pump heavy non-corrosive gel mud to fill hole.
- 2 hours 7. Set final surface cement plug from surface to 100'.
- 4 hours 8. Cut and remove all casings 6' below ground level. weld steel plate on top of casings with well number welded on top of same.
- 2 hours 9. Cover wellhead and restore location to natural condition.
10. Release rid to next well.

40 hours Total Time on Location

ATTACHMENT 3.C.

GT-1 WELLBORE SCHEMATIC

5/29/96



Notes: Although not documented, the 10-3/4" and 7-5/8" casing strings were probably only cemented a few feet at the bottom, but there may have been cement poured behind the casing.

WELL COMPLETED 6/30/72
LOCATED IN BARLEY CNYN