

GTHT - ____002____

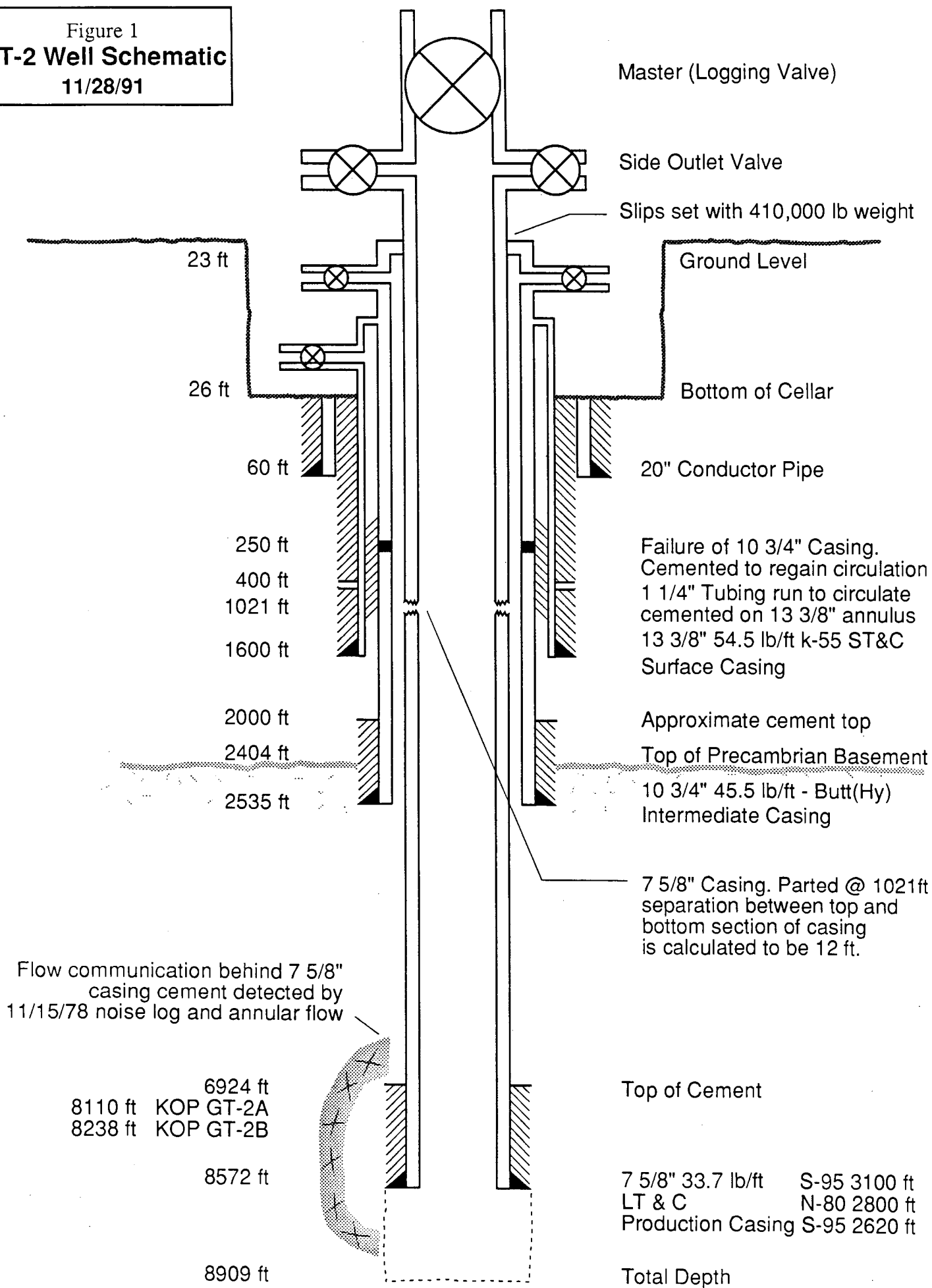
WELL
GT-2

Tom Turner / Injection application for
EE-1 / LANL —

OK w/ R. A. on pit disposal
c.c. to O&E env. group. via WJL.

★ Fix GT-2 / bottom plug, perf & squeeze,
Fix. ~~7~~ 7 5/8 - parted @ 1021

Figure 1
GT-2 Well Schematic
11/28/91



ATTACHMENT 4.A.

OIL CONSERVATION DIVISION

2040 S. Pacheco
SANTA FE, NEW MEXICO 87501Form G-103
Adopted 10-1-7
Revised 10-1-7STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

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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 checked="" type="checkbox"/> Temp. Observation <input 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-2
4. Location of Well Unit Letter _____ 1,525 Feet From The East Line and 1,747 Feet From The North Line, Section 13 Township 19N Range 2E NMPM.	10. Field and Pool, or Wildcat
15. Elevation (Show whether DF, RT, GR, etc.)	12. County Sandoval

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☒
 TEMPORARILY ABANDON ☐
 PULL OR ALTER CASING ☐ CHANGE PLANS ☐
 OTHER ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
 COMMENCE DRILLING OPNS. ☐ PLUG & ABANDONMENT ☐
 CASING TEST AND CEMENT JOB ☐

OTHER _____

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.

Set cement retainer at 8,472', set cement plug from retainer to TD, set 200 linear foot cement plug on top of retainer. Fill hole with 30-40 vis mud. Tag cement top.
 Set 100 linear foot cement plugs at 2,000' intervals to 2,500'. Tag top of top plug.
 Cut 7-5/8" casing below 10-3/4" shoe and remove. Set 10-3/4" cement retainer at 2,450' and set 200 linear foot plug above retainer. Set cement plug at 1,550-1,650'.
 Set 50 linear foot plug at surface. Cut casings 6' below ground level and weld plate with well name on top. Cover wellhead.
 See attached detailed procedures and casing schematic.

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

⇒ Pull as much 7 5/8 as possible in order to stop
 communication flow!

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

SIGNED

James H. Wright

TITLE

G28-4 GROUP LEADER

DATE

6/24/96

ATTACHMENT 4.B.

Los Alamos National Laboratory
Fenton Hill Hot Dry Rock Test Site

Preliminary Well Abandonment Procedure
Well: GT-2

ThermaSource, Inc.

4-2-96 Revision 2

Pertinent Well Data

1. Total depth of the well is 8909'.
2. 7-5/8" 33.7 ppf, S-95 and N-80 casing set to a total depth of 8572'. 7-5/8" cemented from 8572' up to 6924'.
3. 7-5/8" is appeared to be parted at 1021' and casing stubs are separated approximately 12 feet.
4. 10-3/4" 45.5 ppf casing set to total depth of 2535'. 10-3/4" casing is cemented from 2535' up to 2000' and from approximately 1100' up to 250'.
5. 13-3/8" 54.4 ppf, K-55, ST&C casing set to total depth of 1600' and cemented from total depth to surface.
6. 20" conductor set and cemented from 60' to surface.
7. Top of Precambrian Granite basement is 2404' up inside and behind the 10-3/4" casing.
8. Apparent flow around 7-5/8" shoe cement from below casing at 8572' up to above cement top in annulus indicated by noise log run on 11-15-78.

Time Sequence of Operations

- | | |
|----------|---|
| 18 hours | 1. Rig up on well and nipple up appropriate blow out preventer stack. Test stack and complete rig up operations. |
| 18 hours | 2. Pick up 6-5/8" bit and run in hole and attempt to work through parted area in 7-5/8" at 1021'. If successful then proceed to bottom of the 7-5/8" casing at 8572' checking for obstructions or bridges. If unsuccessful the pull out of hole and pull top portion of 7-5/8" from 1021' and lay down recovered section. Proceed ahead with abandonment. |

ATTACHMENT 4.B. (cont'd)

Los Alamos National Lab
Fenton Hill HDR
GT-2 Well Abandonment
4-2-96 Revision 2
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- 8 hours 3. Pull out of hole with bit and pick 7-5/8" casing cement retainer. Run in hole with same and set at approximately 8472'. Disengage from retainer and pull up above it. Circulate through drill pipe and stab back into retainer. Attempt to inject fluid below retainer.
- 22 hours 4. Mix and pump cement below retainer if possible to inject below retainer. Pump enough cement to fill 450' of 7-5/8" casing and open hole to 8909'. Pull out of retainer and mix and pump enough cement to fill 200 linear feet of 7-5/8" casing from 8472' up to 8272'. Pull up out of cement and wait 8 hours. While waiting on cement mix and fill hole with 30 to 40 vis. gel mud. Tag top of cement to verify proper cement plug location. Pull up and set 100 linear feet cement plug every 2000' from 8272' upward to 2500' before proceeding on to next step. Wait on cement and tag top of top plug to verify proper location.
- 12 hours 5. Pull out of hole with drill pipe. Attempt to retrieve top portion of 7-5/8" if not already removed.
- 10 hours 6. Run in hole with 7-5/8" internal casing cutter and cut 7-5/8" casing below shoe of 10-3/4" casing.
- 12 hours 7. Trip out of hole and lay down casing cutter and pick up 7-5/8" casing spear and run in hole. Engage 7-5/8" casing stub at 1021' and pull 7-5/8" from cut point and lay down same.
- 6 hours 8. Pick up 9-7/8" bit and casing scrapper and run in hole to 2500', approximate top of cement plug, checking for bridges and obstructions. Pull out of hole and lay down bit.
- 4 hours 9. Pick up 10-3/4" casing cement retainer and run in hole with same. Set retainer at approximately 2450' just above top of cement. Disengage from retainer and pull above.
- 3 hours 10. Mix and pump cement to fill 200 linear feet of 10-3/4" casing from 2435' up to 2235'. Pull up

ATTACHMENT 4.B. (cont'd)

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to 1650'.

- 3 hours 11. Mix and pump cement to fill 100 linear feet of 10-3/4" casing from 1650' up to 1550'. Pull up out of cement to 50'.
- 2 hours 12. Mix and pump cement to fill 50 linear feet of 10-3/4" casing from 50' to surface. Pull out of hole.
- 18 hours 13. Remove blow out preventer stack and cut off all casing strings at ground level. Weld on metal plate on all casings with well name welded in top of plate.
- 18 hours 14. Rig down and remove rig.

154 hours (6.42 days) Total Time on Location

GT-2 Well Schematic
11/28/91

