GTHT -___002___

WELL PC-1

ATTACHMENT 5.A. OIL CONSERVATION DIVISION

Form G-103

ENERGY AND MINERALS DEP	ARTMENT SANTA F	FE. NEW MEXICO 87501	Revised:10-1-
NO. OF COPIES RECEIVED			• (\$ 15 h)
DISTRIBUTION .			Federal Land Use
File	SUNDRY	NOTICES AND REPORTS	Agreement
N. M. B. M.	John	ON	
U. S. G. S	GEOTHER	MAL RESOURCES WELLS	State - Fee -
Operator	GEOTHERN	WAL RESOURCES WELLS	5.a State Lease No.
Land Office	 		
Do Not Use This Form for Propos For Permit —" (Form G-101) for	:als to Drill or to Deepen or Plug B Such Proposals.)	ack to a Different Reservoir. Use "Ap	VIIIIIIIIIIIIIII
Type of well Geothermal Producer Temp. Observation			7. Unit Agreement Name Fenton Hill
Low-Temp Thermal Injection/Disposal 2. Name of Operator			8. Farm or Lease Name
Los Alamos National	Laboratory		o. Talli of Lease Name
P.O.Box 1663 Los Alamos, NM 87545			9. Well No. PC-1
4. Location of Well			10. Field and Pool, or Wildcat
Unit Letter	1,966 Feet From The	West Line and 3,084	Feet From
	, cot i fold the	Line and	
The North Line, Sec	ction18Township	19N Range 3E	NMPM.
	15. Elevation (Sho 8,400'	w whether DF, RT, GR, etc.)	12. County Sandoval
16.	7777777	C. N. A. D. A. A.	Other Date
	neck Appropriate Box To Ind	licate Nature of Notice, Report of	
	NTENTION TO:		SUBSEQUENT REPORT OF:
PERFORM REMEDIAL WORK	PLUG AND ABANDON	REMEDIAL WORK	ALTERING CASING
EMPORARILY ABANDON]	COMMENCE DRILLING	OPNS. D PLUG & ABANDONME
PULL OR ALTER CASING	CHANGE PLANS	CASING TEST AND CE	MENT JOB .
		OTHER	
OTHER		_ 🗆 📗	
7. Describe Proposed or complete proposed work) SEE RULE 20		persinent details, and give persinenes	dates, including estimated date of starting a
foot cement plugs a at 1,000' and remove and below bridge pl Cut off casings 6' wellhead and restor	bove and below bridge e. Set <u>8-5/8</u> " bridge ug. Fill hole with 9	e plug. Fill hole with plug at 950', set 100 .5 ppg mud. Set 50 line nd weld plate with well al condition.	
1	1 //	may start in late July	
	wh	at is temp:	

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

STATE OF NEW MEXICO

ATTACHMENT 5.B.

Los Alamos National Laboratory

Fenton Hill Hot Dry Rock Test Site

Well Abandonment Procedure Well: PC-1

ThermaSource, Inc.

5-21-96

Pertinent Well Data

- 1. Well Completed 6-22-84.
- 2. Total Depth is 2178' in Precambrian.
- 16" Conductor set at 15', no cement information available.
- 4. 10-3/4", 28 ppf casing set at 608', no cement information available.
- 5. 8-5/8", 28.5 ppf casing set at 1038', casing was mudded in with no cement information available.
- 6. 7" casing set at 1372' in approximately 40 linear feet of cement.
- 7. 5-1/2", 15.5 ppf liner set from 1335' to 1886'. Liner was set into cement. Cemented intervals not available.
- 8. 4-1/2" casing set in cement from surface to 2150'. No cement information available on cemented annulus.
- 9. Aquifers encountered at 225', 386', 690' (with static fluid level at 605'), 1100' (with static fluid level at 960').
- Drilling assembly was left in hole on bottom.

<u>Time</u> <u>Sequence of Operations</u>

- Move in rig and center same over well.
- 6 hours 2. Nipple up necessary blow out preventer stack on 7" casinghead.
- 6 hours 3. Pick up 2-3/8" tubing work string and 3-3/4" bit. Run in hole with bit to check for fill and bridges.

ATTACHMENT 5.B. (cont/d)

Los Alamos National Lab. Fenton Hill HDR PC-1 Well Abandonment 5-21-96 Page 2

- 6 hours 4. Trip out of hole and pick up internal 4-1/2" casing cutter. Run in hole to approximately 1300' and cut 4-1/2" casing.
- 8 hours 5. Pull out of hole with casing cutter and pick up casing spear. Run in hole and engage 4-1/2" casing. Pull, retrieve and lay down 4-1/2" casing.
- 4 hours 6. Pick up 6-1/8" bit and run in hole of 7" casing and check for fill and obstructions.
- 3 hours 7. Trip out of hole and pick up 7" bridge plug and run in hole with same to 1250', approximately 50' above casing stub. Set plug at 1250'.
- 2 hours 8. Mix and pump cement below bridge plug and dump enough cement on top of plug to fill 100 linear feet of 7" casing. Pull of cement and fill hole with heavy mud.
- 6 hours 9. Trip out of hole and pick up 7" internal casing cutter. Cut 7" casing at approximately 1000'. Pull out of hole with cutter and attempt to pull top portion of 7" casing.
- 8 hours 10. If successful in pulling 7" casing then run in hole with 7-7/8" bit and check for fill or obstruction. Trip out of hole and pick up 8-5/8" bridge plug and run in hole with same. or Set bridge plug at 950' (50' above casing stub). Mix and pump cement below plug and dump enough cement on top of plug to fill 100 linear feet of 8-5/8" casing.
- If unsuccessful in pulling 7" casing then run into hole with 7" bridge plug and set same in 7" casing above cut area. Mix and pump cement below 7" bridge plug until obtain pressure build up. Pull out of bridge plug and dump enough cement on top of plug to fill 100 linear feet of 7" casing.
- 4 hours 11. Fill hole with heavy non-corrosive gel mud.

ATTACHMENT 5.B. (cont'd)

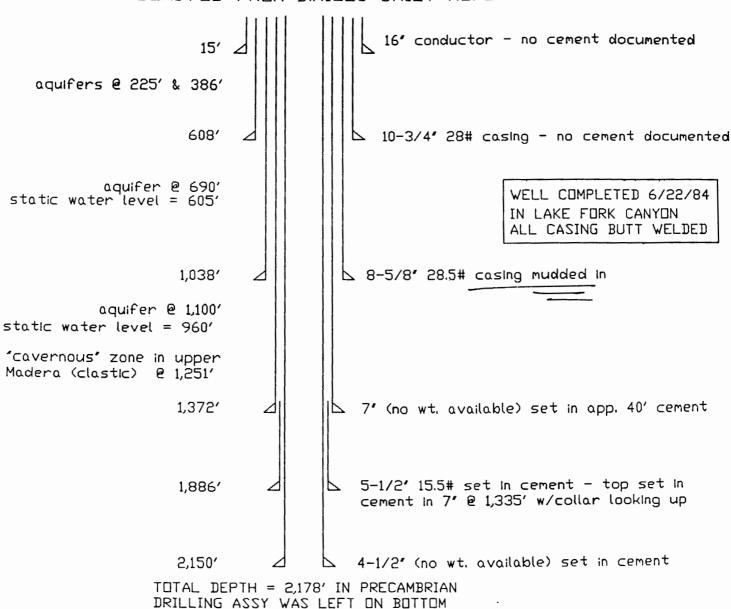
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- 2 hours 12. Set addition cement plug in casing hole from surface to 50'.
- 4 hours 13. Cut and remove all casings 6' below ground level. Weld steel plate on top of casings with well number welded on top of same.
- 2 hours 14. Cover wellhead and restore location to natural condition.
- 4 hours 15. Rig down rig and move same off location.
 - 16. Release rig to next well.

⁶¹ or 65 hours Total Time on Location

PC-1 WELLBORE SCHEMATIC DATA DERIVED FROM DMILES DAILY REPORTS

5/17/96



What is Temp.