

DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**GEOTHERMAL SUNDRY NOTICE**

The Bureau of Land Management (BLM) requests this form or other BLM-approved forms to be prepared and filled in triplicate with requisite attachments with the authorized officer. The authorized officer must approve this permit prior to any lease operations.

6. Lease Serial No. <b>OR45505</b>	
7. Surface Manager: <input type="checkbox"/> BLM <input checked="" type="checkbox"/> FS <input type="checkbox"/> Other	
8. Unit Agreement Name <b>Deschutes</b>	
9. Well No. <b>76-15 TCH</b>	10. Permit No.
11. Field or Area <b>Newberry KGRA</b>	
12. Sec., T., R., B. & M. <b>Sec 15, T21S, R12E MDB&amp;M</b>	
13. County <b>Deschutes</b>	
14. State <b>Oregon</b>	

1a. Well Type:  Production  Injection  Heat Exchange  Observation  Other

1b. Well Status: **Plugged and abandoned**

2. Name of Lessee/Operator  
**CE Exploration / CalEnergy Operating Corporation**

3. Address of Lessee/Operator  
**950 W. Lindsey Road, Calipatria, CA 92233**

4. Location of Well or Facility  
**App 1200 ft W. & 2600 ft S. of N.E. Cor Sec 15, T21S, R12E**

5. Type of Work

<input type="checkbox"/> Change Plans	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Pull or Alter Casing
<input type="checkbox"/> Site and Road Construction	<input type="checkbox"/> Fracture Test	<input type="checkbox"/> Multiple Complete
<input type="checkbox"/> Construct New Production Facilities	<input type="checkbox"/> Shoot or Acidize	<input checked="" type="checkbox"/> Abandon
<input type="checkbox"/> Alter Existing Production Facilities	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Other

15. Describe Proposed Operations (Use this space for well activities only. See instructions for current well conditions on reverse)

**See attached well history and well schematic for plug and abandonment operation.**  
**See attached geothermal well completion report for the original well.**

16. Describe Proposed Operations (Use this space for all activities other than well work)

17. I hereby certify that the foregoing is true and correct

Signed *Joe Hickey* Title Resource Coordinator Date 11-21-99  
(This space for Federal use)

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of Approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on reverse)

## WELL HISTORY - GEOTHERMAL

Operator CE Exploration		Well Name and Number Newberry Crater TCH 76-15	
Field Newberry Crater	County Deschutes	State Oregon	UTM E 639160, N 4845665, Zone 10

DATE	HISTORY
10/12/1999	Move Halliburton's coil tubing unit and pump truck from highway 97 up to the location. Remove the 8" X 600 flange with a 2" X 5000# valve, install an 8"X 600 flange with a 3 1/8" X 2000 valve. Rig up the Halliburton coil-tubing unit. Try to test the BOP pipe rams, could not get a test. The well was dead and the pipe ram test was waved by the BLM (Dennis Simontacchi). Test the blind rams, the pressure would bleed from 1700 psi. to 500 psig in 5 min, the test was witnessed and approved by the BLM (Dennis Simontacchi). Cut a mule shoe on the 1 1/2" coil tubing. Run the coil tubing in the hole to 600'; did not tag the 3 1/2" HQ casing. Pull out of the hole. Make up the perforating gun, run in the hole to 2942', perforate at 2942' with 4-JSPF. Fill the hole and circulate 27 bbls of water, <u>spot 300 linear foot cement plug at 2942'</u> , cement - 3 bbls (17cu/ft) 10.5 sacks of Class "G" cement with 40% SF and .65% CFR-3, 1.61 yield, calculated top 2642', CIP at 14:00 hrs. Pull above the plug, circulate the coil tubing clean, and pull out of the hole. Lay down the perforating gun, make up a 3 1/2" "no-go" on the coil tubing, run in the hole, tag the 3 1/2" HQ casing at 550', trip out, lay down the "no-go". Purge the coil tubing with N2, drain the well head tree, and secure the well. All operations witnessed and approved by BLM representative (Dennis Simontacchi).
10/13/1999	Change out the coil tubing units BOPE, the first set of BOP's had the wrong size pipe rams installed. Trip in the hole with coil tubing, <u>tag the 1st cement plug at 2698'</u> , set 4,000 lbs. on the plug, 244 linear foot cement plug, 2698' to 2942'. Spot 19 bbls of 9.6#, 36 viscosity mud from 2698' to 600'. <u>Spot 600 linear foot cement plug from 600' to surface</u> , cement - 10.4 bbls (58.4 cu/ft), 36sks of Class "G" cement with 40% SF and .65% CFR-3, 1.61 yield, CIP at 11:00 hrs. Rig down Halliburton coil tubing unit and pump truck. All operations witnessed and approved by BLM representative (Dennis Simontacchi).
10/14/1999	Dig out around the well head, cut off the well head 2' below the location level, 4'+ below ground level, weld a cap on the well marked with the well name and number. Fill in the cellar. All operations witnessed and approved by BLM representative (Dennis Simontacchi).

Name  
Joe Hickey

Title  
Resource Coordinator

Address  
950 W. Lindsey Road

City  
Calipatria

Zip Code  
92233

Telephone Number  
(760) 348-4000

Signature



Date

11-21-99

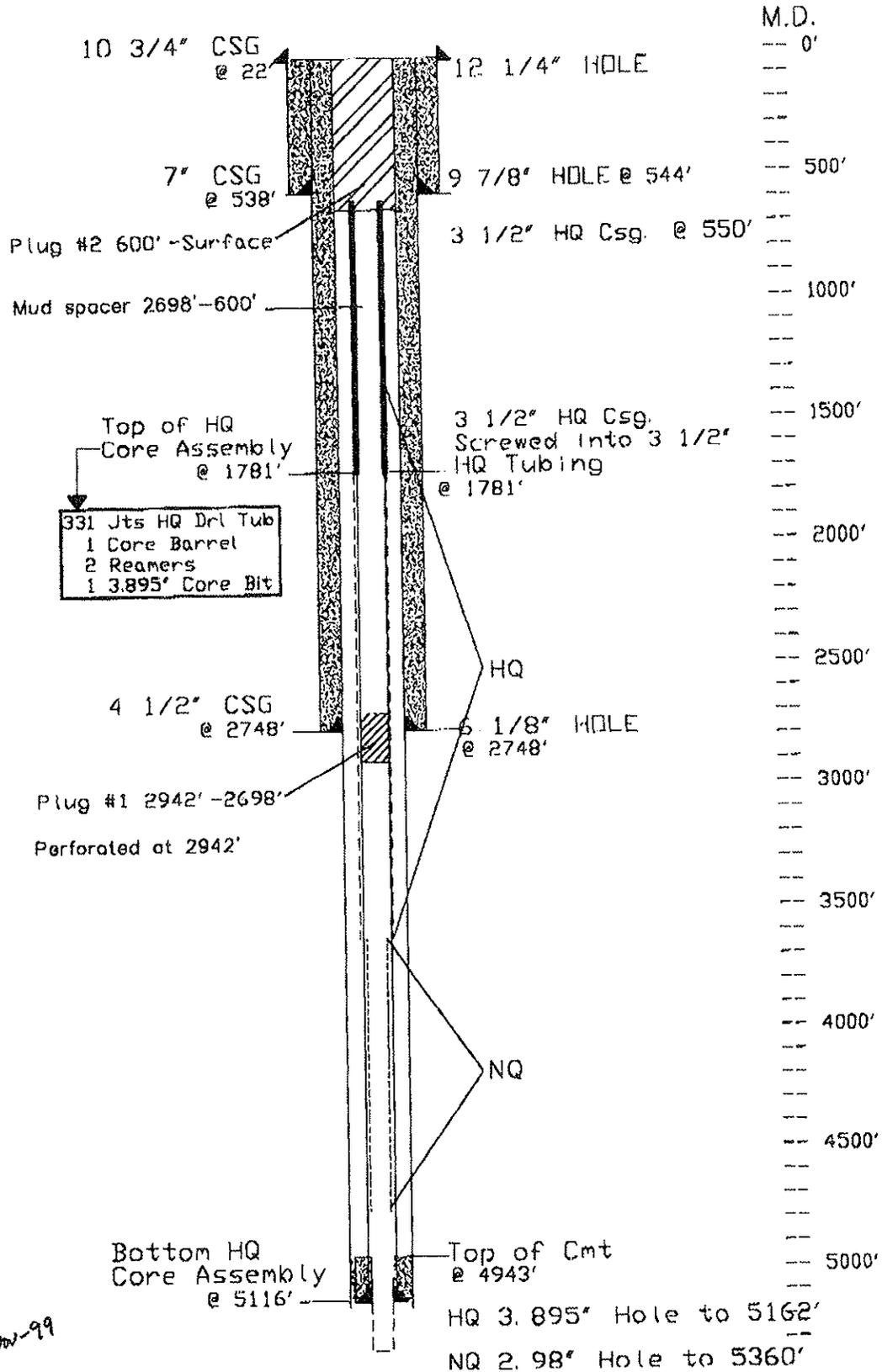
# Abandonment Profile

## NEWBERRY CRATER 76-15 TCH

SPUD 07/24/95

COMPLETION 11/21/95

MD 5360', TVD 5331', SSD 1509'



*approved -  
Schmidt 23-Nov-99*

Form 3260-4  
(formerly 9-1960)  
(June 1988)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

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FORM APPROVED  
OMB No. 1004-0132  
Expires: September 30, 1990

**GEOHERMAL WELL COMPLETION REPORT**

The Bureau of Land Management (BLM) requires this form or other BLM-approved forms to be prepared and filed in duplicate with requisite attachments with the authorized officer within 30 days after completion of permitted operations.

1a. Well Type:  Production  Injection  Disposal  Water Supply  Observation  
 Cold  Heat Exchange  Other

1b. Completion:  New  Workover  Deepened  Plugback  Redrill  
 Recompleted  Drilled & Abandoned  Other

4. Lease Serial No.  
OR45505 (OR4730S)

5. Surface Manager:  BLM  FPS  
 Other

6. Unit Agreement Name  
Deschutes

7. Well No.  
TCH76-15GDP

8. Permit No.  
1050-95-02

9. Field or Area  
Newberry KGRA

10. Sec., T., R., B. & M.  
Sec 15, T21S, R12E, MDB&I

11. County  
Deschutes

12. State  
Oregon

13. Spud Date  
7-24-95

Date T.D. Reach

14. Completion Date (Ready to produce)  
11-22-95

15. Directionally Drilled Intervals

2848' to 4500'

16. Surveyed Intervals  
20' to 100'

17. Core Size and Intervals  
3 3/4" 544' to 5162'  
2 3/4" 5162' to 5360'

2. Name of Lessee/Operator  
C E EXPLORATION

3. Address of Lessee/Operator  
34 N W First St., Suite 302, Portland, Oregon 97209

18. Location of Well  
At Surface: App 1200' W & 2600' S of NE corner Sec 15  
At Top of Production Zone:  
At Total Depth: V.S. 232' South 232.00 E 99.80 from surface location

19. Total Depth  
Measured 5360' True Vertical: 5328.70'

20. Plugback Total Depth  
Measured: True Vertical:

21. Elevation:  Estimated  Final 6780'  
Reference Datum:  GR  MAT  DP  KB  RT  Casinghead Flange  Other

22. Drilling Media:  Air  Water  Mud  Foam  Other  
List Characteristics: Mud drill from surface to 4500'

23. Log Type & Intervals  
Sandia temp & pressure

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**24. CASINO RECORD**

Size	Weight	Grade	Collars & Threads	Depths Set		Hole Size	Cementing Record (slurry volume)
				Top	Shoe		
10 3/4"	47#	K-55	welded	surface	22	12 1/4"	10 c/f
7"	26#	K-55	buttress	surface	538	9 1/2"	130 c/f
4 1/2"	11.6#	K-55	buttress	surface	2748	6 1/8"	478 c/f
3"	7.7#	H-0	HO threads	2707	5116	3 1/2"	12 c/f

**25. LINDER RECORD**

Size	Weight	Grade	Collars & Threads	Top	Bottom	Perforated Intervals	Cementing Record (slurry volume)
3 1/2"	7.7#	HO	HO thread	550	1781	None	

**26. TUBING RECORD**

Size	Weight	Grade	Depth Set	Packer Depth

**28. PERFORATION RECORD**

Type	Total No.	Density (No./ft)	Size	Intervals

29. Attachments & Previous Submittals: List all reports, surveys, tests and logs, not listed in item 23, which have resulted from drilling and completion operations. List relevant previously furnished data with date of submittal referenced.

See Attachment

30. Well Status:  Producing  Shut-In  Suspended  Injection  Disposal  Heat Exchange  Abandoned  Water Supply  Other

31. Do you consider the well to be commercial?  Yes  No Explain:

Temp core hole - Observation well

32. I hereby certify the information on this report and the attached information is complete and accurate according to the best of my knowledge.

Signed: Lester Brasfield Title: Drilling Superintendent Date: 5/20/96

(Continued on reverse)

3 1/2" Linder added to original completion form, Alexander Schirmer Jr, Manager Geothermal Resources  
where it was left off. 22-NOV-99