

RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES

API Well No. 033-90430

## WELL SUMMARY REPORT — GEOTHERMAL

Operator <b>Geysers Power Company</b>		Well <b>Tocher-3</b>				
Field <b>Geysers</b>		County <b>Lake</b>	Sec. <b>27</b>	T. <b>11N</b>	R. <b>8W</b>	B.&M. <b>M.D.</b>
Location (Give surface location from property or section corner, street center line.) <b>786' South and 893' East from NW corner of Section 27</b>					Elevation of ground above/below sea level <b>3163'</b>	
Latitude/Longitude (if known)		Latitude:	Longitude:			
Was the well directionally drilled? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, show coordinates at total depth. <b>1618' North and 2121' East from surface</b>						

Commenced drilling (date) <b>3/21/08</b>	Total depth	True Vertical Depth	Plugged Depth	Depth measurements taken from top of: <input type="checkbox"/> Derrick Floor <input type="checkbox"/> Rotary Table <input checked="" type="checkbox"/> Kelly Bushing
Completed drilling (date) <b>7/13/08</b>	<b>10,405'</b>	<b>9632'</b>		Which is <b>30'</b> feet above ground
Commenced production/injection (date) <b>10/2/08</b>	Junk			<b>GEOLOGICAL MARKERS</b> Refer to lithology log
Name of production/injection zone(s)				<b>DEPTH</b>
				Formation and age at total depth
				Base of fresh water

DATE	STATIC TEST (Shut-in well head)	PRODUCTION TEST DATA								
		Total mass flow data					Separator data			
	Pressure (psig)	Sfc Pressure (psi)	Orifice (Inches)	Rate (lbs/hr)	Enthalpy (Btu/lb)	Temperature (°F)	Sfc Pressure (psi)	Temperature (°F)	Steam Rate (lbs/hr)	Water Rate (lbs/hr)

### CASING AND CEMENTING RECORD (Present Hole)

Size of Casing (API) (inches)	Top of Casing (feet)	Depth of Shoe (feet)	Weight of Casing (lbs/ft)	Grade and Type of Casing	Size of Hole Drilled (inches)	Number of Sacks or Cubic Feet of Cement	Top(s) of Cement in Annulus (feet)
22"	Surf	231'	86.6	Line Pipe	26	622 cf	Surface
16"	Surf	1632'	75	K-55	20-1/2"	2985 cf	Surface
11-3/4"	1349'	5226'	54/60	K-55/N-80	14-3/4"	3500 cf	1349'
13-3/8"	Surf	1349'	61	L-80	16" casing	367 cf	Surface
9-5/8"	4384'	5707'	40	L-80	10-5/8"	314 cf	4384'
7"	Surf	4288'	26	L-80	11-3/4, &	N/A	N/A
					13-3/8" casing		
8-5/8"	4270'	4344'	40	L-80	11-3/4" cg	N/A	N/A
* 7"	4344'	10405'	29	L-80	8-1/2"	N/A	N/A

PERFORATED CASING LINER (Size, top, bottom, perforated intervals, size and spacing of perforations, and method.)  
\* 7874' - 10,370', 0.25" x 2" Slots, 8 Rows x 6" centers, 16 slots/foot

Logs/surveys run?  Yes  No If yes, list type(s) and depth(s).  
Directional surveys (attached)

In compliance with Sec. 3215, Division 3, of the *Public Resources Code*, the information given herewith is a complete and correct record of the present condition of the well and all work done thereon, so far as can be determined from all available records.

Name <b>Marc W. Steffen</b>		Title <b>Sr. Drilling Engineer</b>	
Address <b>10350 Socrates Mine Road</b>		City/State <b>Middletown, CA</b>	Zip Code <b>95461</b>
Telephone <b>(707) 431-6102</b>	Signature 		Date <b>10/21/08</b>
E-Mail <b>marc@calpine.com</b>	Fax <b>(707) 431-6148</b>		