

RESOURCES AGENCY OF CALIFORNIA  
DEPARTMENT OF CONSERVATION  
DIVISION OF OIL, GAS, AND GEOTHERMAL RESOURCES  
**WELL SUMMARY REPORT — GEOTHERMAL**

API Well No. **097-90845**

Operator <b>Geysers Power Company, LLC</b>		Well <b>WHS-56</b>				
Field <b>Northwest Geysers</b>		County <b>Sonoma</b>	Sec. <b>2</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>731' North and 4096 West of the SE corner of Sec 2, T11N, R8W</b>					Elevation of ground above/below sea level <b>2827'</b>	
Latitude/Longitude (if known)		Latitude: _____		Longitude: _____		

Was the well directionally drilled?  Yes  No If yes, show coordinates at total depth.  
**380' South and 2552' West of surface location (surveys attached)**

Commenced drilling (date) 01/31/2010	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) 06/08/2010	<b>11,687'</b>	<b>11,239'</b>	<b>N/A</b>	Which is <b>30</b> feet above ground	
Commenced production/injection (date) Injection pending pipeline construction	Junk <b>N/A</b>			GEOLOGICAL MARKERS <b>Refer to Litho-log</b>	
Name of production/injection zone(s) <b>Franciscan</b>				DEPTH	
				Formation and age at total depth <b>Jurassic</b>	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)
20"	surface	765'	94#	J-55 BTC	26"	700 sx	surface
13-3/8"	surface	3,488'	68# 88#	K-55 & Q125 BTC	17-1/2"	1635 sx	surface
9-5/8"	surface	4,793'	43.5#	L-80 H-521& BTC	12-1/4"	1410 sx	surface
7" Liner 7" Tieback	4,588' surface	11,687' 4,621'	32# 29#	L-80 H-521& BTC	8-1/2"	N/A	N/A

PERFORATED CASING LINER (Size, top, bottom, perforated intervals, size and spacing of perforations, and method.)  
**7" slotted liner 2-1/2" X 1/4" 6 rows, 12 spf, blank 8' from box and 4' from pin**

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

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>Agent</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 <i>Marc W. Stellen</i>		Date <i>01/12/2010</i>
E-Mail <b>marc@calpine.com</b>	Fax <b>707-431-6148</b>		