

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

API Well No. **097-90846**

Operator Geysers Power Company, LLC		Well WHS-34				
Field Northwest Geysers		County Sonoma	Sec. 3	T. 11N	R. 8W	B.&M. M.D.
Location (Give surface location from property or section corner, street center line.) 870' South & 2,959' East of the NW corner of Section 35					Elevation of ground above/below sea level 2,573'	
Latitude/Longitude (if known)		Latitude: 423565.61		Longitude: 17588738.02		

Was the well directionally drilled? Yes No If yes, show coordinates at total depth.
751' South & 2,675' West of surface location (surveys attached)

Commenced drilling (date) 05/29/2010	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) 09/14/2010	11,753'	11,148'	N/A	Which is 30 feet above ground
Commenced production/injection (date) Injection pending pipeline construction	Junk N/A			GEOLOGICAL MARKERS Refer to Litho-log
Name of production/injection zone(s) Franciscan				DEPTH
Formation and age at total depth Jurassic				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	602'	94#	J-55 BTC	26"	570 sx	surface
13-3/8"	surface	4,362'	68# / 88.2#	L80 / K55 BTC	17-1/2"	2815 sx	surface
9-5/8"	3,931'	6,008'	43.5#	L-80 H-521	12-1/4"	559 sx	3,931'
7" liner / tieback	5,888' / surface	11,753' / 5,903'	32#, 29# & 26#	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.

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