

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

API Well No. **033-90477**

Operator Geysers Power Company, LLC		Well NEGU-13				
Field Geysers		County Lake	Sec. 8	T. 11N	R. 8W	B.&M. MD
Location (Give surface location from property or section corner, street center line.) 2139' East and 2737' South of the NW corner of Section 8					Elevation of ground above/below sea level 3342'	
Latitude/Longitude (if known)		Latitude: 38.821066		Longitude: -122.768433		

Was the well directionally drilled? Yes No If yes, show coordinates at total depth. **430' North and 2002' East of Wellhead Location**

Commenced drilling (date) 5/29/2012	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) 7/19/2012	10,458'	10,092'	N/A	Which is 29 feet above ground
Commenced production/injection (date) Injection pending pipeline construction	Junk N/A			GEOLOGICAL MARKERS
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)
N/A										

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"/16"	surf/surf	203'/1490'	86#/75#	K-55 BTC	28"/20-1/2"	N/A	surf/surf
13-3/8"/11-3/4"	surf/192'	192'/5770'	61#/54#	K-55 BTC	14-3/4"	N/A	surface
8-5/8" X 7" lower	7960'/5060'	7960'/10400'	40#/29#	Cr13-80 VAM and JFE	10-5/8"/8-1/2"	none	N/A
7" upper	surf	5089'	29#	Cr13-80 VAM TOP	11-3/4" casing	none	N/A

PERFORATED CASING LINER (Size, top, bottom, perforated intervals, size and spacing of perforations, and method.)

7" 29# Cr13-80 VAM ACE slotted liner from 7,960 - 10,400', 8-5/8" 40# CR13-80 H523 and JFE Bear slotted liner from 5,060 - 7,960' (7") slots 2-1/2" X 1/4" 6 rows, 12 spf, blank 8' from box and 4' from pin. (8-5/8") slots 2" X 1/4" 10 rows, 20 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 Paul Graham		Title Agent	
Address 10350 Socrates Mine Road		City/State Middletown, CA	Zip Code 95461
Telephone 707-431-6094	Signature		Date
E-Mail grahampaul@calpine.com	Fax 707-431-6148		