

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

RECEIVED
3/17/2010 via e-Mail
API Well No. 097-90843

WELL SUMMARY REPORT — GEOTHERMAL CC: State Lands 3/25/10
FedEx Ltr

Operator Geysers Power Company, LLC		Well WHS-36				
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.) 802.5' South and 2942.5' East of the NW corner of Sec 3, T11N, R8W					Elevation of ground above/below sea level 2570'	
Latitude/Longitude (if known)		Latitude: 38.8267		Longitude: -122.8485		

Was the well directionally drilled? Yes No If yes, show coordinates at total depth.
3056' South and 1412' West of surface location (surveys attached)

Commenced drilling (date) 10/12/2009	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) 01/21/2010	12,340'	11,260'	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) Fransiscan				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)
2/12/2010 2/16/2010	312	98	3"	34,000	1189	330				

CASING AND CEMENTING RECORD (Present Hole)

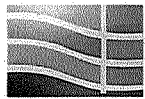
Size of Casing (API) (inches)	Top of Casing (feet)	Depth of Shoe (feet)	Weight of Casing (lbs/ft)	Grade and Type of Casing	Size of Hole Drilled (inches)	Number of Sacks or Cubic Feet of Cement	Top(s) of Cement in Annulus (feet)
20"	surface	602'	94#	J-55 BTC	26"	425 sx	surface
13-3/8"	surface	3,177'	68#	L-80 BTC	17-1/2"	3450 sx	surface
7" by 8-5/8" liner XO @ 5877'	2,853'	12,336'	29# and 40#	L-80 H-521	12-1/4" - 8-1/2"	8-5/8", 2853' - 5877' 7", 5877' - 12,336"	N/A
7" tieback	surface	2,883'	29#	L-80 H-521	13-5/8" casing	N/A	N/A

PERFORATED CASING LINER (Size, top, bottom, perforated intervals, size and spacing of perforations, and method.)
7" by 8-5/8" 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 Marc W. Steffen		Title Agent	
Address 10350 Socrates Mine Road		City/State Middletown, CA	Zip Code 95461
Telephone 707-431-6102	Signature <i>Marc W. Stellen</i>		Date 03/17/2010
E-Mail marc@calpine.com	Fax 707-431-6148		



Bit Summary Report

Well ID: Wildhorse St #36

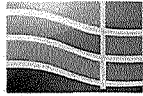
Field: Geysers

Calpine Corp

Well Name: Wildhorse State # 36

Sect 3 Town: 11 N Rng: 9 W County: Sonoma State: CA

Run No	No	Diam	Manuf.	Model	Serial No	Nozzles - 1/32 in	TFA	Date/Time In	Depth - ft In	Hole Out	Made	Hrs	ROP	WOB	RPM	Flow	MWt	In	Out	Major	Loc	Brg	Gge	Oth	Pull						
Well ID: Wildhorse St #36 Well Name: Wildhorse State # 36																															
1	1	26.000	S.INT.	2 JS	EW 3711	32 32 32		2.356 19-Oct-09 00:00	62	602	540	52.0	10.4	25000	90	884	9.00	4	5	FC	A	8		4	BT	TD					
Rerun f/Aidlin 12 & GDC 31 Two cones very lose.																															
									Report No:	8	Date:	19-Oct-09	13	2.0	6.5											Jet Vel:	P. Drop:				
									Report No:	9	Date:	20-Oct-09	245	20.5	11.5	35000	90	884	8.80											Jet Vel:	P. Drop:
									Report No:	10	Date:	21-Oct-09	282	16.0	22.0	55000	110	880	9.00											Jet Vel:	P. Drop:
2	1	17.500	BKR-BIT	MXL-9	6068657	24 24 24		1.325 24-Oct-09 22:00	606	2374	1768	101.0	17.5	65	120	750		3	6	BT	G	2		25	SD	HR					
Drilling with TruTrak system																															
									Report No:	14	Date:	25-Oct-09	573	24.0	23.9	60000	90	884	9.00	Jet Vel:		214	P. Drop:		368.7						
									Report No:	15	Date:	26-Oct-09	476	23.0	22.3	70000	120	824	9.00	Jet Vel:		199.5	P. Drop:		320.4						
									Report No:	16	Date:	27-Oct-09			19.9											Jet Vel:		P. Drop:			
									Report No:	17	Date:	28-Oct-09			18.2											Jet Vel:		P. Drop:			
									Report No:	18	Date:	29-Oct-09			16.4											Jet Vel:		P. Drop:			
3	1	17.500	BKR-BIT	MXL-S20	6079520	28 28 28 24		2.246 29-Oct-09 23:00	2374	3188	814	61.0	13.3	65000	120		8.90	5	5	FC	A	5		1	NO	TD					
Drilling with TruTrak system																															
									Report No:	18	Date:	29-Oct-09											Jet Vel:		P. Drop:						
									Report No:	19	Date:	30-Oct-09	285	18.5	15.4											Jet Vel:		P. Drop:			
									Report No:	20	Date:	31-Oct-09											Jet Vel:		P. Drop:						
									Report No:	21	Date:	01-Nov-09											Jet Vel:		P. Drop:						
									Report No:	22	Date:	02-Nov-09	616	50.0	12.3											Jet Vel:		P. Drop:			
									Report No:	23	Date:	03-Nov-09	110	12.0	11.7	75000	90	884	9.00	Jet Vel:		126.3	P. Drop:		128.4						
									Report No:	26	Date:	06-Nov-09	17	3.0	13.0	75000	120	811	9.00	Jet Vel:		115.9	P. Drop:		108.1						
4	1	12.250	BKR-BIT	VMG-44C	5168866	32 32 32		2.356 17-Nov-09 20:00	3188	3853	665	34.5	19.3	20000	60			4	4	FC	N	N		1	NO	PN					
Exper. bit /Stuck in hole &worked free.																															
									Report No:	38	Date:	18-Nov-09											Jet Vel:		P. Drop:						
									Report No:	39	Date:	19-Nov-09	351	15.5	22.6											Jet Vel:		P. Drop:			
									Report No:	40	Date:	20-Nov-09	74	5.0	12.3	25000	60											Jet Vel:		P. Drop:	
5	1	12.250	BKR-BIT	VXG-44C	5169973	28 28 28		1.804 24-Nov-09 22:30	3853	5287	1434	39.5	36.3	15000	65			3	3	NO	A	3		0	NO	HR					
									Report No:	45	Date:	25-Nov-09		18.0	29.4											Jet Vel:		P. Drop:			
									Report No:	46	Date:	26-Nov-09	1054	29.5	22.2											Jet Vel:		P. Drop:			
									Report No:	47	Date:	27-Nov-09			0.0											Jet Vel:		P. Drop:			
6	1	12.250	BKR-BIT	VXG-44C	5169974	28 28 28		1.804 28-Nov-09 13:00	5287	6378	1091	53.0	20.6	20000	60	260		4	4	FC	A	5		0	NO	PR					
									Report No:	48	Date:	28-Nov-09	83	5.0	16.6											Jet Vel:		P. Drop:			
									Report No:	49	Date:	29-Nov-09	523											Jet Vel:		P. Drop:					



Bit Summary Report

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Field: Geysers

Calpine Corp

Well Name: Wildhorse State # 36

Sect: 3 Town: 11 N Rng: 9 W County: Sonoma State: CA

Run No	No	Diam	Manuf.	Model	Serial No	Nozzles - 1/32 in	TFA	Date/Time In	Depth - ft		Hole Made	Hrs	ROP	WOB	RPM	Flow	Mwt	Grading								
									In	Out								In	Out	Major	Loc	Brg	Gge	Oth	Pull	
14	1	8.500	BKR-BIT	VXG-44C	5163936	28 28 28		Report No: 75 Date: 25-Dec-09											Jet Vel:	P. Drop:						
							1.804	25-Dec-09 12:00	10123	10444	321	25.0	12.8	25	65				3	3	WT	A	4	1	NO	HR
								Report No: 75 Date: 25-Dec-09											Jet Vel:	P. Drop:						
								Report No: 76 Date: 26-Dec-09			305	24.0	12.7						Jet Vel:	P. Drop:						
								Report No: 77 Date: 27-Dec-09											Jet Vel:	P. Drop:						
15	1	8.500	BKR-BIT	VXG - 44 C	5163932	28 28 28		Report No: 78 Date: 28-Dec-09											Jet Vel:	P. Drop:						
							1.804	27-Dec-09 15:00	10444	10794	350	27.5	12.7	20000	65				7	6	FC	A		1	LT	HR
								Lost some buttons																		
16	1	8.500	BKR. DIR	VXG-44	5167142	28 28 28		Report No: 79 Date: 29-Dec-09											Jet Vel:	P. Drop:						
							1.804	29-Dec-09 02:00	10794	11143	349	25.0	14.0	20000	65				5	5	FC	A	6	1	NO	HR
								Report No: 80 Date: 30-Dec-09			160	12.0	13.3	20000	65				Jet Vel:	P. Drop:						
								Report No: 81 Date: 31-Dec-09			190	13.0	14.0	20000	65				Jet Vel:	P. Drop:						
17	1	8.500	BKR-BIT	VXG-44C	5163736	0 0 0		Report No: 82 Date: 01-Jan-10											Jet Vel:	P. Drop:						
							0.000	31-Dec-09 03:00	11143	11478	335	27.0	12.4	20000	65				5	6	FC	A	8	1	NO	HR
								Report No: 83 Date: 02-Jan-10			132	11.0	12.0	20000	65				Jet Vel:	P. Drop:						
								Report No: 84 Date: 03-Jan-10			203	16.0	13.0	20000	65				Jet Vel:	P. Drop:						
18	1	8.500	BKR-BIT	VXG-44C	5163934	0 0 0		Report No: 85 Date: 04-Jan-10											Jet Vel:	P. Drop:						
							0.000	02-Jan-10 14:00	11478	11775	297	23.5	12.6	20000	65				6	6	FC	A	7	1	NO	HR
								Report No: 83 Date: 02-Jan-10											Jet Vel:	P. Drop:						
								Report No: 84 Date: 03-Jan-10			297	23.5	12.6	22000	65				Jet Vel:	P. Drop:						
								Report No: 85 Date: 04-Jan-10			55	3.5	13.0	22000	65				Jet Vel:	P. Drop:						
19	1	8.500	BKR-BIT	VXG-44C	5163935	28 28 28		Report No: 86 Date: 05-Jan-10											Jet Vel:	P. Drop:						
							1.804	04-Jan-10 12:00	11775	12081	306	23.0	13.3		65				4	4	BF	M	F	0.125	BT	HR
								Report No: 85 Date: 04-Jan-10											Jet Vel:	P. Drop:						
								Report No: 86 Date: 05-Jan-10					13.3						Jet Vel:	P. Drop:						
20	1	8.500	BKR-BIT	TEP 690000	5162634	28 28 28		Report No: 87 Date: 06-Jan-10											Jet Vel:	P. Drop:						
							1.804	06-Jan-10 20:00	12081																	
								Report No: 87 Date: 06-Jan-10				4.0	9.5						Jet Vel:	P. Drop:						
								Report No: 88 Date: 07-Jan-10			259	25.0	10.2						Jet Vel:	P. Drop:						