

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

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API Well No. 097-90849

WELL SUMMARY REPORT — GEOTHERMAL Co: S.L.C.

Operator Geysers Power Company, LLC		Well D&V - 26					
Field Geysers		County Sonoma		Sec. 34	T. 11N	R. 8W	B.&M. M.D.
Location (Give surface location from property or section corner, street center line.) 619' South and 2168' East of the NW corner of Sec 34, T11N, R8W					Elevation of ground above/below sea level 1809'		
Latitude/Longitude (if known)		Latitude: 38.770675		Longitude: -122.731951			
Was the well directionally drilled? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No If yes, show coordinates at total depth. 274' North and 22' East of the surface location projection (surveys attached)							
Commenced drilling (date) 10/01/2011	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) 11/11/2011	4294'	4280'	N/A	Which is 12 feet above ground			
Commenced production/injection (date) Injection pending pipeline construction	Junk (1) 6-1/8" bit, (1) near-bit stabilizer, (5) 4-3/4" drill collars. Left junk on bottom, ran 4-1/2" liner on top of fish (4137').			GEOLOGICAL MARKERS Refer to Litho-log		DEPTH	
Name of production/injection zone(s) Franciscan				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)

CASING AND CEMENTING RECORD (Present Hole)

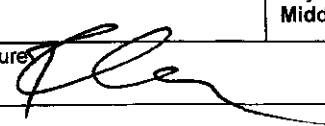
Size of Casing (API) (inches)	Top of Casing (feet)	Depth of Shoe (feet)	Weight of Casing (lbs/ft)	Grade and Type of Casing	Size of Hole Drilled (inches)	Number of Sacks or Cubic Feet of Cement	Top(s) of Cement in Annulus (feet)
9-5/8"	surface	499'	47#	K-55 BTC	12.25"	160 sx	surface
7"	surface	3378'	26#	K-55 and L-80 BTC	8-1/2"		surface
4-1/2"	1766'	4137'	15.1#	L-80 Hyd-511	6-1/8"	N/A	N/A

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

4-1/2" 15.1# H-511 L-80 liner, slotted from 4137 - 3397, blank from 3397 - 1766', slots are from 4' below box to 4' above pin (1-4" X 2" X 4 slots 8 slots per foot

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 11/21/2011
E-Mail grahampaul@calpine.com	Fax 707-431-6148		

	SCHEMATIC	DESCRIPTION	REMEDIAL WORK
		<p>Perforated casing for remedial cement job.</p>	
		<p>FISH</p> <p>Fish from 4294'-4137' (1) 6-1/8" bit, (1) near bit stab, (5) 4-3/4" drill collars</p>	
		<p>MISCELLANEOUS</p> <p>API #: 097-90849 Sec. 34, T11N, R8W Sonoma County, CA Lat/Long: 402932.8, 1791630.8 Rig: Nabors-472</p>	

CALPINE

DV-26
INJECTOR

GROUND ELEVATION : 3363'	SPUD DATE : 10/01/11	T. M. DEPTH : 4294'
KELLY BUSHING : 12'	COMPLETION DATE : 11/11/11	T. V. DEPTH : 4280'



Operations Activity Detail

Well ID: SLRI-DV 26
Field: Geysers

Calpine Corp

Well Name: DV-26 SLRI
Sect: 34 Town: 11N Rng: 8W County: Sonoma State: CA

Rpt. No.	Date	Time	To	Hrs	End MD	Ops Code	Activity Description	Non-Prod.
2	28-Sep-11	00:00	00:00	24		RIGD	Rigged down and scoped in derrick on BEF 87-28.	
3	29-Sep-11	00:00	06:00	6		OTHER	Rig idle waited on daylight.	
		06:00	18:00	12		MOVE	Loaded out rig from BEF 87-28. Set camp and engines on DV-26. Loaded misc. loads from BEF 87-28.	
4	30-Sep-11	18:00	00:00	6		OTHER	Rig idle waited on daylight.	
		00:00	07:00	7		OTHER	Rig idle, waited on daylight.	
5	01-Oct-11	07:00	19:00	12		MOVE	Set rig onto DV-26. Cleared all equipment from BEF 87-28. Installed and tested derrick raising rams.	
		19:00	00:00	5		OTHER	Rig idle, waited on daylight.	
6	02-Oct-11	00:00	07:00	7		OTHER	Rig idle, waited on daylight.	
		07:00	17:00	10		MOVE	Set in pits and solids equipment. Raised derrick. Set in stairs and walks. Set in connex and change room. Unloaded equipment on lower pad.	
7	03-Oct-11	17:00	00:00	7		RIGU	Rigged up. Scoped out derrick. Rigged up floor.	
		00:00	06:00	6		RIGU	Rigged up floor. Picked up kelly.	
8	04-Oct-11	06:00	21:00	15		BOPNU	Fabricated conductor. Mixed spud mud. Installed conductor and flow line. Refabbed mousehole. Rig on payroll @ 06:00 on 10/2/11.	
		21:00	22:00	1		BHAOP	Picked up bit and monel.	
9	05-Oct-11	22:00	00:00	2		DRIL	Drilled 12 1/4" hole from 42' to 67'.	
		00:00	02:00	2		DRIL	Drilled 12 1/4" hole from 67' to 76'.	
10	06-Oct-11	02:00	04:00	2		CIRC	Cleaned out packed off flow line.	
		04:00	00:00	20		DRIL	Drilled from 76' to 200'.	
11	06-Oct-11	00:00	01:00	1		DRIL	Drilled 12 1/4" hole from 200' to 206'.	
		01:00	02:00	1		SURV	Circulated and surveyed at 161'.	
12	06-Oct-11	02:00	10:00	8		DRIL	Drilled 12 1/4" hole from 206' to 251' and lost mud returns at 251'.	
		10:00	11:30	1.5		TRPO	Pulled out of the hole to 40'.	
13	06-Oct-11	11:30	12:00	0.5		SERV	Serviced the rig.	
		12:00	15:00	3		OTHER	Built mud volume and added lost circulation material.	
14	06-Oct-11	15:00	17:00	2		TRPI	Ran in the hole and spotted a 150 Bbls LCM pill at 251'.	
		17:00	18:00	1		TRPO	Pulled out of the hole.	
15	06-Oct-11	18:00	21:30	3.5		OTHER	Built mud volume and added lost circulation material.	
		21:30	22:30	1		TRPI	Ran in the hole to 251'.	
16	06-Oct-11	22:30	23:30	1		DRIL	Drilled from 251' to 259 with no returns.	
		23:30	00:00	0.5		OTHER	Built mud volume and a Hydro Plug pill.	
17	06-Oct-11	00:00	02:30	2.5		OTHER	Mixed and pumped the Hydro LCM Plug and spotted at 259'.	
		02:30	03:00	0.5		TRPO	Pulled out of the hole to 40'.	
18	06-Oct-11	03:00	10:00	7		OTHER	Waited on the Hydro Plug to set.	
		10:00	10:30	0.5		OTHER	Attempted to fill the hole with no returns.	
19	06-Oct-11	10:30	12:00	1.5		TRPO	Pulled out of the hole and laid down the bottom hole stab and bit.	
		12:00	12:30	0.5		TRPI	Ran in the hole picking up drill pipe to 150'.	
20	06-Oct-11	12:30	17:30	5		WOC	Waited on cement and cementers.	X
		17:30	18:30	1		CMTPL	Rigged up the cementers and set a 150 lin. ft cement plug at 150'.	
21	06-Oct-11	18:30	00:00	5.5		WOC	Waited on the cement to harden.	
		00:00	02:30	2.5		WOC	Waited on the cement to harden and filled the hole with 50 bbls.	
22	06-Oct-11	02:30	04:00	1.5		TRPI	Ran in the hole with the 12 1/4' drilling assembly and	



Operations Activity Detail

Well ID: SLRI-DV 26
Field: Geysers

Calpine Corp

Well Name: DV - 26 SLRI
Sect: 34 Town: 11N Rng: 8W County: Sonoma State: CA

Rpt. No.	Date	Time	To	Hrs	End MD	Ops Code	Activity Description	Non-Prod.
							tagged cement at 159'.	
		04:00	05:00	1		C/OCMT	Cleaned out cement from 159' to 259' and lost returns.	X
		05:00	06:00	1		DRIL	Drilled 12 1/4" hole from 259' to 265' with no returns.	
		06:00	07:30	1.5		TRPO	Pulled out of the hole to set a cement plug.	
		07:30	08:00	0.5		SERV	Serviced the rig.	
		08:00	10:00	2		TRPI	Ran in the hole with open ended drill pipe and washed down to 262'.	
		10:00	11:00	1		CMTPL	Rigged up the cementers and set 120 lin. ft cement plug # 2 at 262'.	
		11:00	11:30	0.5		TRPO	Pulled out of the hole.	
		11:30	18:00	6.5		WOC	Waited on the cement to harden and built mud volume.	
		18:00	21:00	3		TRPI	Ran in the hole with the 12 1/4" drilling assembly and tagged cement at 239'.	
		21:00	22:00	1		C/OCMT	Cleaned out cement from 239' to 265'.	X
		22:00	00:00	2		DRIL	Drilled 12 1/4" hole from 265' to 272' with no mud loss.	
11	07-Oct-11	00:00	00:00	24		DRIL	Drilled 12 1/4" hole from 272' to 388'.	
12	08-Oct-11	00:00	15:00	15		DRIL	Drilled 12 1/4" hole from 388' to 510' 9 5/8" casing point.	
		15:00	15:30	0.5		CIRC	Circulated the hole clean at 510'.	
		15:30	16:00	0.5		SURV	Ran a wire line directional survey at 469'.	
		16:00	19:30	3.5		WIPE	Ran a wiper trip from 510' to surface measuring out of the hole.	
		19:30	20:30	1		CIRC	Circulated the hole clean at 510'.	
		20:30	23:30	3		TRPO	Pulled out of the hole to run casing and laid down the 12 1/4" tools and 8" monel.	
		23:30	00:00	0.5		WOE	Waited on the casing equipment due to their truck breaking down.	X
13	09-Oct-11	00:00	04:00	4		WOE	Waited on the casing equipment due to their truck breaking down.	X
		04:00	07:30	3.5		CASE	Ran 9 5/8" casing to 499'.	
		07:30	09:00	1.5		TRPI	Ran in the casing with the stab in and drill pipe and stabbed into the casing float collar at 459'.	
		09:00	10:30	1.5		CIRC	Rigged up the cementing equipment and circulated the hole clean.	
		10:30	11:30	1		CMTPL	Cemented the casing with good returns to surface.	
		11:30	12:30	1		TRPO	Pulled out of the casing and laid down the stab in tool.	
		12:30	21:00	8.5		WOC	Waited on the cement to harden.	
		21:00	00:00	3		OTHER	Cut off the conductor and the 9 5/8" casing to install the well head.	
14	10-Oct-11	00:00	03:00	3		WELD	Welded on the well head flange and tested to 500 psi.	
		03:00	19:30	16.5		BOPNU	Nipped up the blow out preventers and tested with D.O.G. to 500psi. The casing would only test to 300 psi.	
		19:30	23:30	4		REPR	Attempted to change out the kelly swivel but when they picked up the new swivel the threads had been cut wrong. Picked back up the old swivel.	X
		23:30	00:00	0.5		BHAOP	Started picking up the 8 1/2" drilling assembly.	
15	11-Oct-11	00:00	07:00	7		BHAOP	Installed mousehole, picked up bha.	
		07:00	08:00	1		BOPT	Tested pipe rams. Test approved by DOG.	
		08:00	12:30	4.5		C/OCMT	Tripped in hole tagged float collar @ 459'. Cleaned out float collar. Washed to shoe @ 498'. Cleaned out wiper and shoe. Washed to 510'.	X



Operations Activity Detail

Well ID: SLRI-DV 26
Field: Geysers

Calpine Corp

Well Name: DV 26 SLRI
Sect 34 Town: 11N Rng: 8W County: Sonoma State: CA

Rpt. No.	Date	Time	To	Hrs	End MD	Ops Code	Activity Description	Non-Prod.
		12:30	00:00	11.5		DRIL	Drilled 8 1/2" hole from 510' to 692' with no mud losses.	
16	12-Oct-11	00:00	13:30	13.5		DRIL	Drilled 8 1/2" hole from 692' to 945' with no mud loss. Lost returns @ 945'.	
		13:30	14:00	0.5		DRIL	Drilled with no returns from 945' to 952'.	
		14:00	16:30	2.5		CIRC	Tripped out of hole to 488'. Built volume and mixed lcm. Tripped in hole to 952'.	
		16:30	21:00	4.5		DRIL	Drilled with no returns from 952' to 960'. Regained full returns. Drilled from 960' to 1023' with no mud loss.	
		21:00	22:00	1		SURV	Circulated and surveyed @ 954'.	
		22:00	00:00	2		DRIL	Drilled from 1023' to 1086' with no mud loss.	
17	13-Oct-11	00:00	00:00	24		DRIL	Drilled 8 1/2" hole from 1086' to 1534' with no mud loss.	
18	14-Oct-11	00:00	01:30	1.5		DRIL	Drilled 8 1/2" hole from 1534' to 1561' with no mud loss.	
		01:30	02:00	0.5		SURV	Surveyed @ 1502'.	
		02:00	00:00	22		DRIL	Drilled from 1561' to 1955' with no mud loss. Lost returns @ 1956'. Drilled with no circulation from 1956' to 1965'.	
19	15-Oct-11	00:00	01:00	1		TRPO	Tripped out of hole to 480'.	
		01:00	02:30	1.5		CIRC	Built volume, mixed lcm.	
		02:30	03:30	1		TRPI	Tripped in hole to 1965'.	
		03:30	04:30	1		DRIL	Drilled 8 1/2" hole from 1965' to 1976' with partial to no returns.	
		04:30	09:00	4.5		TRPO	Tripped out of hole.	
		09:00	12:00	3		TRPI	Tripped in hole with open ended drill pipe to 1890'.	
		12:00	13:30	1.5		CMTPL	Rigged up Thermasource Cementers and set plug #3 200 LF CIP 13:15.	
		13:30	17:00	3.5		WOC	Tripped out of hole to 480'. Waited on cement.	
		17:00	20:00	3		TRPI	Pumped 140 bbls. with no returns. Tripped in hole and tagged cement @ 1972'. Tripped out of hole to 1890'.	
		20:00	21:00	1		CMTPL	Set cement plug #4 200 LF CIP 20:45.	
		21:00	22:00	1		TRPO	Tripped out of hole.	
		22:00	22:30	0.5		OTHER	Rigged up float onto survey machine and checked fluid level @ 1970'.	
		22:30	23:00	0.5		TRPI	Tripped in hole with open ended drill pipe to 480'.	
		23:00	00:00	1		WOC	Waited on cement.	
20	16-Oct-11	00:00	01:00	1		WOC	Waited on cement.	
		01:00	02:00	1		TRPI	Tripped in hole tagged cement @ 1955'.	
		02:00	03:00	1		CIRC	Mixed, spotted, and displaced. lcm pill. Pulled up to 1890'.	
		03:00	03:30	0.5		CMTPL	Set plug #5 235 LF CIP 03:30.	
		03:30	07:30	4		TRPO	Tripped out of hole to 480'. Waited on cement.	
		07:30	09:00	1.5		TRPI	Tripped in hole tagged cement @ 1697'. Circulated @ 1697' with full returns.	
		09:00	10:30	1.5		TRPO	Tripped out of hole.	
		10:30	13:30	3		TRPI	Made up bha and tripped in hole to 1651'.	
		13:30	17:00	3.5		C/OGMT	Cleaned out cement from 1651' to 1910'. Washed from 1910' to 1976'.	X
		17:00	23:30	6.5		DRIL	Drilled 8 1/2" hole from 1976' to 2073'. Lost 10-20 bph.	
		23:30	00:00	0.5		SURV	Surveyed @ 2008'.	
21	17-Oct-11	00:00	12:30	12.5		DRIL	Drilled 8 1/2" hole from 2073' to 2193' lost 20-50 bph.	
		12:30	14:30	2		CIRC	Spotted cottonseed pellet pill. Tripped out of hole to	



Operations Activity Detail

Galpincorp

Well ID: SLRI-DV 26

Well Name: DV - 26 SLRI

Field: Geysers

Sect: 34 Town: 11N Rng: 8W County: Sonoma State: CA

Rpt. No.	Date	Time	To	Hrs	End MD	Ops Code	Activity Description	Non-Prod.
							1875'. Waited on pill. Tripped in hole to 2193'.	
		14:30	17:30	3		DRIL	Drilled from 2193' to 2220' lost 15-90 bph.	
		17:30	20:30	3		TRPO	Tripped out of hole for cement plug.	
		20:30	23:30	3		TRPI	Tripped in hole with open ended drill pipe to 2145'.	
		23:30	00:00	0.5		CMTPL	Rigged up Themasource cementers.	
22	18-Oct-11	00:00	00:30	0.5		PLUG	Set cement plug #6 300 LF set @ 2142' CIP 00:30.	
		00:30	01:30	1		TRPO	Pulled out of the hole to the shoe at 499'.	
		01:30	04:30	3		WOC	.Attempted to fill hole with 70 bbls with no returns.	
		04:30	06:00	1.5		TRPI	Tripped in hole and tagged cement @ 1962'. Filled the hole with 42 bbls. Circulated lost 60 bph.	
		06:00	07:00	1		PLUG	Set 200 lin. ft cement plug # 7 at 1962'.	
		07:00	07:30	0.5		TRPO	Pulled out of the hole to the shoe at 499'.	
		07:30	11:00	3.5		WOC	Waited on cement to harden and filled the hole with 25 bbls.	
		11:00	12:00	1		TRPI	Ran in the hole and tagged the cement at 1899'.	
		12:00	12:30	0.5		CIRC	Circulated the hole clean at 1899' with no mud losses.	
		12:30	13:30	1		TRPO	Pulled out of the hole to get the drilling assembly.	
		13:30	16:30	3		TRPI	Ran in the hole with the 8 1/2" drilling assembly to 1880'.	
		16:30	21:00	4.5		C/OCMT	Cleaned out cement from 1899' to 2220'.	X
		21:00	00:00	3		DRIL	Drilled 8 1/2" hole from 2220' to 2260' with mud losses from 10 to 35 bbls per hour.	
23	19-Oct-11	00:00	00:00	24		DRIL	Drilled 8 1/2" hole from 2260' to 2476' with 40 to 60 bbls per hour mud loss.	
24	20-Oct-11	00:00	06:30	6.5		DRIL	Drilled 8 1/2" hole from 2476' to 2549' with mud losses from 80 to 90 bbls per hour.	
		06:30	07:30	1		SURV	Circulated and ran a directional wire line survey at 2493'.	
		07:30	10:30	3		TRPO	Pulled out of the hole to set a cement plug.	
		10:30	12:00	1.5		TRPI	Ran in the hole with open ended drill pipe to 500'.	
		12:00	13:00	1		WOC	Waited on the cementers.	X
		13:00	14:30	1.5		TRPI	Ran in the hole to 2530'.	
		14:30	15:30	1		PLUG	Circulated with no returns and set a 200 lin. ft lost circulation cement plug # 8 at 2530'.	
		15:30	20:00	4.5		WOC	Pulled out of the hole to 500' and waited on the cement to harden.	
		20:00	21:00	1		TRPI	Ran in the hole and tagged cement at 2340'.	
		21:00	22:30	1.5		PLUG	Pumped 60 bbls away and set 300 lin ft cement plug # 9 at 2314'.	
		22:30	00:00	1.5		WOC	Pulled out of the hole and waited on the cement to harden.	
25	21-Oct-11	00:00	04:00	4		WOC	Waited on the cement to harden and cleaned the mud tanks.	
		04:00	06:00	2		TRPI	Ran in the hole and tagged the cement at 2007' and attempted to fill the hole with no returns.	
		06:00	07:30	1.5		PLUG	Set 335 lin ft cement plug #10 at 1970'.	
		07:30	13:30	6		WOC	Pulled out of the hole to 500' and waited on the cement to harden.	
		13:30	14:30	1		TRPI	Ran in the hole and tagged the cement at 1823'.	
		14:30	15:00	0.5		CIRC	Circulated the hole at 1823' with no mud losses.	
		15:00	16:00	1		TRPO	Pulled out of the hole with open ended drill pipe.	
		16:00	18:00	2		TRPI	Ran in the hole with the 8 1/2" drilling assembly to 1823'.	



Operations Activity Detail

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Field: Geysers

Galpincorp

Well Name: DV - 26 SLRI
Sect: 34 Town: 11N Rng: 8W County: Sonoma State: CA

Rpt. No.	Date	Time	To	Hrs	End MD	Ops Code	Activity Description	Non-Prod.
26	22-Oct-11	18:00	00:00	6		C/OCMT	Cleaned out cement from 1823' to 2390' started losing 10 to 35 bbls per hour of mud at 2290'.	X
		00:00	02:00	2		C/OCMT	Cleaned out cement from 2390' to 2549' with mud losses from 10 - 35 bbls per hour.	X
		02:00	06:00	4		DRIL	Drilled 8 1/2" hole from 2549' to 2591' with mud losses up to 90 bbls an hour.	
		06:00	08:00	2		OTHER	Cleaned LCM out of the mud pumps and build volume.	
		08:00	10:30	2.5		DRIL	Drilled 8 1/2" hole from 2591' to 2617' and lost returns at 2610'.	
		10:30	11:00	0.5		OTHER	Pumped a high content LCM pill and spotted it at 2617'.	
		11:00	13:30	2.5		TRPO	Pulled out of the hole and cleaned the LCM out of the float.	
		13:30	14:00	0.5		OTHER	Ran a wire line fluid check with the fluid at 700'. Pumped 50 bbls and filled the hole.	
		14:00	16:30	2.5		TRPI	Ran in the hole with the 8 1/2" drilling assembly to 2617'.	
		16:30	17:00	0.5		DRIL	Drilled 8 1/2" hole from 2617' to 2621' with very little returns.	
		17:00	17:30	0.5		OTHER	Built mud volume and add LCM.	
		17:30	18:00	0.5		DRIL	Drilled 8 1/2" hole from 2621' to 2626 with mud losses up to 90 bbls per hour.	
		18:00	20:00	2		OTHER	Worked the drill string and built mud volume.	
		20:00	00:00	4		DRIL	Drilled 8 1/2" hole from 2626' to 2671' with no mud loss.	
27	23-Oct-11	00:00	11:30	11.5		DRIL	Drilled 8 1/2" hole from 2671' to 2754'.	
		11:30	12:00	0.5		CIRC	Circulated and spotted a 60 bbls LCM pill at 2754'.	
		12:00	14:00	2		TRPO	Pulled out of the hole.	
		14:00	17:00	3		TRPI	Ran in the hole with a new 8 1/2" bit # 4.	
		17:00	00:00	7		DRIL	Drilled 8 1/2" hole from 2754' to 2832' with no mud loss.	
28	24-Oct-11	00:00	14:30	14.5		DRIL	Drilled 8 1/2" hole from 2832' to 3002'.	
		14:30	15:00	0.5		SERV	Serviced the rig and tightened the swivel packing.	
		15:00	22:30	7.5		DRIL	Drilled 8 1/2" hole from 3002' to 3120'. Lost 140 bbls at 3002'.	
		22:30	23:30	1		SURV	Circulated and surveyed at 3064'	
29	25-Oct-11	23:30	00:00	0.5		DRIL	Drilled 8 1/2" hole from 3120' to 3128' with no losses.	
		00:00	15:30	15.5		DRIL	Drilled 8 1/2" hole from 3128' to 3310' lost 0-60 bph.	
		15:30	17:00	1.5		DRIL	Lost returns 3310'. Drilled blind from 3310' to 3323'.	
		17:00	19:30	2.5		CIRC	Spotted 2 lcm pills. Tripped out of hole to 3178' and worked pipe. Tripped in hole to 3323'.	
		19:30	20:00	0.5		DRIL	Drilled blind from 3323' to 3328'.	
		20:00	22:00	2		CIRC	Worked pipe to mix and spot lcm pill. While spotting lcm pill bit plugged. Attempted to clear bit. Tripped out of hole to 2760' and attempted to clear bit.	
30	26-Oct-11	22:00	00:00	2		TRPO	Tripped out of hole wet with plugged bit.	
		00:00	03:30	3.5		TRPO	Tripped out of hole with plugged bit. Cleaned out sawdust above float and bit had 2 plugged jets.	
		03:30	05:00	1.5		OTHER	Checked fluid level @ 1190'. Pumped 70 bbls. Checked fluid level @ 1130'.	
		05:00	06:00	1		TRPI	Tripped in hole with open ended drill pipe to 480'.	
		06:00	06:30	0.5		SERV	Serviced rig.	



Operations Activity Detail

Galpene Corp

Well ID: SLRI-DV 26

Well Name: DV - 26 SLRI

Field: Geysers

Sect: 34 Town: 11N Rng: 8W County: Sonoma State CA

Rpt. No.	Date	Time	To	Hrs	End MD	Ops Code	Activity Description	Non-Prod.
		06:30	10:00	3.5		WOC	Waited on cementers.	X
		10:00	12:00	2		TRPI	Tripped in hole to 3290'.	
		12:00	12:30	0.5		CMTPL	Rigged up Thermasource cementers and pumped plug #11 200 LF CIP 12:30.	
		12:30	16:00	3.5		WOC	Tripped out of hole to 480'. Waited on cement. Cleaned out sand trap and settling pit.	
		16:00	17:00	1		TRPI	Tripped in hole and tagged cement @ 2999'.	
		17:00	18:30	1.5		CIRC	Pumped 120 bbls. Had temporary returns, lost returns and pump pressure.	
		18:30	19:00	0.5		TRPO	Tripped out of hole to 1970'.	
		19:00	20:00	1		CMTPL	Set cement plug #12 300 LF CIP 20:00.	
		20:00	21:00	1		TRPO	Tripped out of hole and function tested bop.	
		21:00	00:00	3		WOC	Checked fluid level @ 630' Waited on cement. Checked fluid level @ 23:00 710'. Filled hole with 48 bbls. Circulated with no loss.	
31	27-Oct-11	00:00	03:00	3		TRPI	Made up 8 1/2" bha and tripped in hole. Tagged cement @ 2197'.	
		03:00	08:30	5.5		C/OCMT	Cleaned out cement with no mud loss from 2197' to 2709'.	X
		08:30	18:30	10		STUK	Pipe became wall stuck bit depth @ 2699' while making connection. Stuck point estimated @ 2090'. Worked stuck pipe while for XLR-Rate pipe lubricant. Lost returns @ 14:00 Mixed lcm and regained full returns @ 18:30.	X
		18:30	00:00	5.5		STUK	Pumped 65 bbls of 5% XLR-Rate pipe lubricant mud. Worked stuck pipe while pumping 1 bbl. 5% XLR-Rate pipe lubricant mud every 1/2 hour.	X
32	28-Oct-11	00:00	04:00	4		STUK	Worked stuck pipe and pumped 1 bbl. 5% XLR-Rate pipe lubricant mud every 1/2 hour. Pipe came free @ 04:00.	X
		04:00	05:30	1.5		TRPO	Tripped out of hole to shoe.	
		05:30	06:30	1		CIRC	Circulated and conditioned mud.	
		06:30	08:00	1.5		TRPI	Tripped in hole to 2709'.	
		08:00	14:30	6.5		C/OCMT	Cleaned out cement from 2709' to 3210'. Lost returns.	X
		14:30	15:30	1		TRPO	Tripped out of hole to 1491'.	
		15:30	17:30	2		CIRC	Worked pipe @ 1491'. Mixed and pumped lcm. Regained full circulation.	
		17:30	18:00	0.5		TRPI	Tripped in hole to 3210'.	
		18:00	20:00	2		C/OCMT	Cleaned out cement from 3210' to 3295'. Washed from 3295' to 3328'. Lost 50 bph.	X
		20:00	00:00	4		DRIL	Drilled 8 1/2" hole from 3328' to 3367'. With no mud loss.	
33	29-Oct-11	00:00	03:00	3		DRIL	Drilled 8 1/2" hole from 3367' to 3397' with no mud loss.	
		03:00	04:00	1		CIRC	Circulated bottoms up.	
		04:00	09:00	5		TRPO	Tripped out of hole to install casing rams. Laid down 6-6" drill collars.	
		09:00	11:00	2		OTHER	Installed 7" casing rams.	
		11:00	15:00	4		TRPI	Made up bha and tripped in hole to 3250'. Broke circulation and held bop drill @ 1500'.	
		15:00	16:00	1		WASH	Washed down from 3250' to 3397'. Dehydrated thick mud.	
		16:00	17:00	1		CIRC	Circulated @ 3397'.	
		17:00	17:30	0.5		SURV	Surveyed @ 3332'.	



Operations Activity Detail

Well ID: SLRI-DV26

Field: Geysers

Calpine Corp

Well Name: DV-26 SLRI

Sect: 34 Town: 11N Rng: 8W County: Sonoma State: CA

Rpt. No.	Date	Time	To	Hrs	End MD	Ops Code	Activity Description	Non-Prod.
34	30-Oct-11	17:30	18:30	1		CIRC	Circulated @ 3397'.	
		18:30	23:00	4.5		TRPO	Tripped out of hole, laid down 3-drill collars, jars, and monkey. Changed out kelly.	
		23:00	00:00	1		CASE	Rigged up casing crew.	
		00:00	08:30	8.5		CASE	Ran 7" casing bottom @ 3377'. Installed circulating swedge and attempted to circulate.	
		08:30	16:30	8		STUK	Casing stuck and packed off. Worked stuck casing with 1500-2500 psi.	X
35	31-Oct-11	16:30	18:00	1.5		CIRC	Pumped 30 bbls of 5% XLR-Rate pipe lubricant mud thru kill line. Displaced with 15 bbls. mud.	
		18:00	00:00	6		STUK	Worked stuck casing moving 5% XLR-Rate pipe lubricant mud downhole with 1 bbl./hour.	X
		00:00	08:00	8		STUK	Worked stuck casing moving 5% XLR-Rate pipe lubricant mud downhole with 1 bbl./hour.	X
		08:00	12:30	4.5		STUK	Rigged up Cogco wireline and ran freepoint. Casing stuck @ 1950'.	X
		12:30	14:00	1.5		OTHER	Rigged down wireline. Rigged up floor to run drill pipe inside casing.	
36	01-Nov-11	14:00	20:00	6		TRPI	Tripped in hole to 3140'. Broke circulation and tightened kelly @ 1850'.	
		20:00	22:00	2		WASH	Washed from 3140' to 3377' inside 7" casing.	
		22:00	23:00	1		CIRC	Circulated @ 3377' inside 7" casing.	
		23:00	00:00	1		TRPO	Tripped out of hole with drill pipe.	
		00:00	01:00	1		TRPO	Pulled out of the hole with the drill pipe.	
		01:00	08:00	7		OTHER	Attempted to circulate casing. Pumped 200 bbls. lcm mud down casing. Worked stuck 7" casing.	
		08:00	23:30	15.5		WOE	Waited on 7" packer. Held a safety stand down and installed a raised floor for running the 7" packer.	X
		23:30	00:00	0.5		TRPI	Made up the 7" packer and started running in the hole.	
		00:00	03:30	3.5		TRPI	Ran in the hole with the 7" Fast Drill packer to 3314'.	
		03:30	08:30	5		RIGD	Rig on down time due to not being able to move the forklift out of the way to bring in the cement trucks. Pulled out of the hole to 2314' to keep the packer cool.	
37	02-Nov-11	08:30	14:00	5.5		OTHER	Moved the forklift with a hydro crane and backed in the cementers then ran in the hole to 3314' and set the packer then cemented the 7" casing.	
		14:00	17:00	3		TRPO	Pulled out of the hole and laid down the packer setting tools.	
		17:00	19:00	2		PERF	Rigged up the wire line truck and ran in the hole and shot 2 - 3/4" holes at 1885'.	
		19:00	20:00	1		WELD	Had to redress the 7" casing collar with the welder and install the circulating sub.	
		20:00	20:30	0.5		CIRC	Circulated threw the holes in the casing at 1885' with no mud losses.	
		20:30	21:00	0.5		PERF	Ran in the hole with the second set of perforating guns and shot 2 holes at 1879' and 2 more holes at 1875' and rigged down the wire line truck.	
		21:00	23:30	2.5		CIRC	Circulated the casing threw the perf holes conventionally and also reversed circulated while rigging up the cementers.	
		23:30	00:00	0.5		CMTF	Reversed cemented the 7" casing from surface to 1885'.	
		00:00	01:00	1		CMTF	Reversed cemented the 7" casing from surface to 1885'.	
		38	03-Nov-11	00:00	01:00	1		CMTF



Operations Activity Detail

Well ID: SLRI- DV 26
Field: Geysers

Calpine Corp

Well Name: DV - 26 SLRI

Sect: 34 Town: 11N Rng: 8W County: Sonoma State: CA

Rpt. No.	Date	Time	To	Hrs	End MD	Ops Code	Activity Description	Non-Prod.
39	04-Nov-11	01:00	11:00	10		WOC	Waited on the cement to harden.	
		11:00	15:00	4		BOPND	Nipped down and lifted blow out preventer and cut off the 7" casing and laid down the cut off.	
		15:00	18:00	3		WHE	Welded on the 10", 400 series hubbed well head flange and tested to 500 psi.	
		18:00	20:00	2		OTHER	Allowed the well head to cool and changed the 7" casing rams to blind rams.	
		20:00	22:00	2		CMTS	Mixed and pumped a 2 bbls cement top job on the 7" casing.	
		22:00	00:00	2		BOPNU	Nipped up the blow out preventer.	
		00:00	06:00	6		BOPNU	Nipped up the B.O.P. and tested to 500 psi.	
		06:00	08:00	2		TRPI	Ran in the hole and laid down 14 joints of plugged drill pipe.	
		08:00	09:00	1		BHAOP	Pick up 6 1/8" bottom hole assembly.	
		09:00	10:30	1.5		BOPT	Tested the blow out preventer with the D.O.G.G.E.R. TO 500 psi.	
		10:30	14:00	3.5		TRPI	Picked up the 6 1/8" drilling assembly and ran in the hole and tagged cement at 1797'.	
		14:00	16:00	2		C/OCMT	Cleaned out cement from 1797' to 1891'.	X
		16:00	16:30	0.5		TRPI	Ran in the hole and tagged cement at 3191'.	
		16:30	17:30	1		BOPT	Circulated the hole clean and tested the pipe rams and casing to 500 psi.	
40	05-Nov-11	17:30	20:00	2.5		TRPO	Laid down working drill pipe out of the derrick.	
		20:00	00:00	4		C/OCMT	Cleaned out cement from 3191' to 3397' with the packer at 3314' and the shoe at 3378'.	X
		00:00	06:30	6.5		DRIL	Drilled 6 1/8" hole from 3397' to 3484' losing 40 to 100 bbls per hour.	
		06:30	07:30	1		OTHER	Worked on mud pumps cleared LCM out of valves and primed the pumps.	
		07:30	18:00	10.5		DRIL	Drilled 6 1/8" hole from 3484' to 3607' losing 100 to 200 bbls per hour.	
		18:00	18:30	0.5		SERV	Serviced the rig.	
		18:30	00:00	5.5		DRIL	Drilled 6 1/8" hole from 3607' to 3640' losing 160 to 200 bbls per hour.	
		00:00	09:00	9		DRIL	Drilled 6 1/8" hole from 3640' to 3699' losing 200 bbls per hour and lost complete returns at 3690'.	
		09:00	10:00	1		SURV	Circulated and ran a wire line directional survey at 3660'.	
		10:00	12:30	2.5		TRPO	Pulled out of the hole to lay down the Monel collar and string stabilizers with all the stabilizers and bit in gauge.	
41	06-Nov-11	12:30	14:30	2		TRPI	Ran in the hole with a new bit #6 to 3300'.	
		14:30	16:30	2		SLIPCT	Slipped and cut the drilling line.	
		16:30	17:00	0.5		TRPI	Ran in the hole to 3648'.	
		17:00	18:00	1		REAM	Circulated and reamed from 3654' to 3699'.	
		18:00	19:00	1		CIRC	Circulated and built mud volume.	
		19:00	00:00	5		DRIL	Drilled 6 1/8" hole from 3699' to 3740' with losses from 200 bbls to total loss.	
		00:00	18:00	18		DRIL	Drilled 6 1/8" hole from 3740 to TD at 3900' with losses from 200 bbls to total loss.	
		18:00	20:30	2.5		CIRC	Circulated and pumped a high viscosity pill and unloaded casing.	
		20:30	00:00	3.5		TRPO	Pull out of the hole.	
		00:00	01:00	1		TRPO	Tripped out of hole.	



Operations Activity Detail

Well ID: SLRI- DV 26
Field: Geysers

Calpine Corp

Well Name: DV - 26 SLRI
Sect: 34 Town: 11N Rng: 8W County: Sonoma State: CA

Rpt. No.	Date	Time	To	Hrs	End MD	Ops Code	Activity Description	Non-Prod.
		01:00	02:00	1		OTHER	Installed 4 1/2" casing rams at blind rams.	
		02:00	09:00	7		TEST	Monitored well wellhead psi.	X
		09:00	11:30	2.5		LOG	Ran temp log to 3900' (198 deg temp.511 psi.).	
		11:30	15:00	3.5		TRPI	Made up bha and tripped in hole to 3900'. Filled pipe @ 3300'.	
		15:00	00:00	9		DRIL	Drilled 6 1/8" hole with no returns from 3900' to 3977' with losses from 200 bbls an hour to total loss.	
44	09-Nov-11	00:00	12:00	12		DRIL	Drilled 6 1/8" hole from 3977' to 4073' with losses from 200 bbls an hour to total loss.	
		12:00	15:00	3		CIRC	Pumped 2 Drispac sweeps and tripped out of hole.	
		15:00	16:00	1		EVAL	Shut in well and monitored wellhead psi.	
		16:00	19:00	3		LOG	Rigged up and ran temperature and pressure logs (first log 582 psi, 194 deg. second log 572 psi, 252 deg).	
		19:00	20:00	1		EVAL	Shut in well and monitored wellhead psi.	
		20:00	23:00	3		TRPI	Made up bha and tripped in hole to 4073'. Filled pipe @ 3300'.	
		23:00	00:00	1		DRIL	Drilled 6 1/8" hole from 4073' to 4085' with no returns.	
45	10-Nov-11	00:00	14:30	14.5		DRIL	Drilled 6 1/2" hole from 4085' to 4294' with no returns.	
		14:30	20:00	5.5		STUK	Pipe stuck while working pipe for connection. Worked stuck pipe.	X
		20:00	00:00	4		STUK	Removed gooseneck from kelly swivel. Rigged up and ran freepoint. Ran back off shot and backed off @ 4140'.	X
46	11-Nov-11	00:00	04:30	4.5		TRPO	Rigged down wireline crew. Tripped out of hole. Laid down 2 joints drill pipe, and 1 drill collar. Fish left in hole 5 drill collars, near bit stabalizer, and bit.	
		04:30	07:00	2.5		OTHER	Shut in and monitored well. Installed goose neck onto kelly swivel.	
		07:00	11:00	4		TRPI	Made up bha and tripped in hole to 3300'. Made up kelly hose to gooseneck and filled pipe @ 3300'.	
		11:00	12:30	1.5		TRPI	Tripped in hole and tagged top of fish @ 4137'. Filled pipe and pumped 2 Drispac sweeps.	
		12:30	15:30	3		TRPO	Tripped out of hole for liner. Cleared floor.	
		15:30	21:00	5.5		CASE	Rigged up Team Casing and ran 4 1/2" liner. Made up landing collar and rigged down Team Casing.	
		21:00	22:30	1.5		CASE	Ran in hole with liner and drill pipe. Landed liner bottom @ 4137' top @ 1766'.	
		22:30	00:00	1.5		TRPO	Laid down drill pipe.	
47	12-Nov-11	00:00	13:00	13		TRPO	Laid down drill pipe and bha.	
		13:00	18:00	5		BOPND	Nipped down bop and cleaned pits. Rig released @ 18:00 11/12/2011.	
		18:00	00:00	6		RIGD	Rigged down floor, pumps, and pits.	



Directional Survey Report

Calpine Corp

Well ID: SLRI- DV 26

Well Name: DV - 26 SLRI

Field: Geysers

Sect: 34 Town: 11N Rng: 8W County: Sonoma State: CA

Survey Type	Meas. Depth	Inc.	Azimuth	TVD	Coordinates		Closure	Vertical Section	Dog Leg Severity
					N-S	E-W			
Well Bore: Original Well Bore					Plane of Vertical Section: 0				
** Teln	0.0	0.00	0	0.0	0.0	0.0		0.0	
DIGITA	161.0	0.50	336.1	161.0	0.6	-0.3	0.7	0.6	0.311
DIGITA	469.0	0.70	56.2	469.0	2.9	0.7	3.0	2.9	0.256
DIGITA	955.0	1.90	43.6	954.9	10.4	8.8	13.6	10.4	0.252
DIGITA	1,502.0	2.50	11	1,501.5	28.7	17.3	33.5	28.7	0.249
DIGITA	2,008.0	3.00	18	2,006.9	52.1	23.5	57.2	52.1	0.119
DIGITA	2,493.0	4.40	18.4	2,490.9	81.8	33.3	88.3	81.8	0.289
DIGITA	3,064.0	4.50	359.7	3,060.2	125.0	40.1	131.3	125.0	0.254
DIGITA	3,332.0	5.60	345	3,327.1	148.2	36.6	152.6	148.2	0.631
DIGITA	3,397.0	5.60	345	3,391.8	154.3	35.0	158.2	154.3	0.000
DIGITA	3,660.0	8.10	355	3,652.9	185.2	30.1	187.6	185.2	1.050
DIGITA	4,294.0	8.10	355	4,280.6	274.1	22.3	275.0	274.1	0.000

Calculations using Minimum Curvature Method



Bit Summary Report

Well ID: SLRI-DV.26

Field: Geysers

Calpine Corp

Well Name: DV - 26 SLRI

Sect: 34 Town: 11N Rng: 8W County: Sonoma State: CA

Run												Depth - ft		Hole		Grading									
No	No	Diam	Manuf.	Model	Serial No	Nozzles - 1/32 in	TFA	Date/Time In	In	Out	Made	Hrs	ROP	WOB	RPM	Flow	MWT	In	Out	Major	Loc	Brg	Gge	Oth	Pull
Well ID: SLRI-DV 26		Well Name: DV - 26 SLRI																							
1	1	12.250	BKR-BIT	GF3513 ODv	PN4779	32 32 32 18	2.605	02-Oct-11 21:00	42	510	468	76.0	6.2	22000	65	502	8.60	2	2	WT	A	E	1	NO	TD
		Used bit from spool yard																							
						Report No: 6		Date: 02-Oct-11			25	2.0	12.5	5	65	408	8.50	Jet Vel:		50.3	P. Drop:		19.2		
						Report No: 7		Date: 03-Oct-11			133	22.0	6.6	15	65	439	8.50	Jet Vel:		54.1	P. Drop:		22.2		
						Report No: 8		Date: 04-Oct-11			59	10.0	6.4	20000	65	490	8.40	Jet Vel:		60.4	P. Drop:		27.4		
						Report No: 9		Date: 05-Oct-11			0							Jet Vel:			P. Drop:				
						Report No: 10		Date: 06-Oct-11			13	3.0	6.2	15000	65	430	8.50	Jet Vel:		53	P. Drop:		21.3		
						Report No: 11		Date: 07-Oct-11			116	24.0	5.7	22000	65	502	8.50	Jet Vel:		61.8	P. Drop:		29.1		
						Report No: 12		Date: 08-Oct-11			122	15.0	6.2	22000	65	502	8.50	Jet Vel:		61.8	P. Drop:		29.1		
						Report No: 13		Date: 09-Oct-11			0	0.0						Jet Vel:			P. Drop:				
2	1	8.500	S.INT.	GF20DPS	MZ0352	24 24 24	1.325	11-Oct-11 00:00	510	2220	1710	102.5	16.7	20	60	345	8.40	2	4	WT	S	E	4	PR	
						Report No: 15		Date: 11-Oct-11			182	11.0	16.5	20	65	345	8.70	Jet Vel:		83.5	P. Drop:		54.3		
						Report No: 16		Date: 12-Oct-11			394	20.0	18.6	25	65	345	8.60	Jet Vel:		83.5	P. Drop:		53.7		
						Report No: 17		Date: 13-Oct-11			448	24.0	18.6	20	65	345	8.80	Jet Vel:		83.5	P. Drop:		54.9		
						Report No: 18		Date: 14-Oct-11			431	23.0	18.7	20	60	345	8.90	Jet Vel:		83.5	P. Drop:		55.5		
						Report No: 19		Date: 15-Oct-11			11	1.0	18.6	20	65	220	8.40	Jet Vel:		53.3	P. Drop:		21.3		
						Report No: 20		Date: 16-Oct-11			97	6.0	18.4	20	65	345	8.60	Jet Vel:		83.5	P. Drop:		53.7		
						Report No: 21		Date: 17-Oct-11			127	15.0	16.9	25	65	345	8.40	Jet Vel:		83.5	P. Drop:		52.4		
3	1	8.500	S.INT.	FH45OD	PL4298	22 22 22	1.114	18-Oct-11 00:00	2220	2754	534	56.5	9.5	30000	65	336	8.40	4	7	RG	S	E	0	PR	
		Used to clean out alot of cement.																							
						Report No: 22		Date: 18-Oct-11			40	3.0	13.3	25000	65	336	8.40	Jet Vel:		96.8	P. Drop:		70.4		
						Report No: 23		Date: 19-Oct-11			216	24.0	9.5	30000	65	346	8.40	Jet Vel:		99.7	P. Drop:		74.7		
						Report No: 24		Date: 20-Oct-11			73	6.5	9.8	30000	65	346	8.40	Jet Vel:		99.7	P. Drop:		74.7		
						Report No: 25		Date: 21-Oct-11			0							Jet Vel:			P. Drop:				
						Report No: 26		Date: 22-Oct-11			122	11.5	10.0	30000	65	346	8.40	Jet Vel:		99.7	P. Drop:		74.7		
						Report No: 27		Date: 23-Oct-11			83	11.5	9.5	30000	65	336	8.40	Jet Vel:		96.8	P. Drop:		70.4		
4	1	8.500	BKR-BIT	GX-28DX0	5183292	24 24 24	1.325	23-Oct-11 17:00	2754	3397	643	54.0	11.9	25	65	311	8.50	4	5	BT	A	E	4	WT	TD
						Report No: 27		Date: 23-Oct-11			78	7.0	11.1	30000	65	333	8.50	Jet Vel:		80.6	P. Drop:		49.4		
						Report No: 28		Date: 24-Oct-11			296	22.5	12.7	30000	65	333	8.50	Jet Vel:		80.6	P. Drop:		49.4		
						Report No: 29		Date: 25-Oct-11			200	16.0	12.6	30	65	333	8.40	Jet Vel:		80.6	P. Drop:		48.8		
						Report No: 30		Date: 26-Oct-11										Jet Vel:			P. Drop:				
						Report No: 32		Date: 28-Oct-11			39	4.0	12.4	28	65	310	8.40	Jet Vel:		75	P. Drop:		42.3		
						Report No: 33		Date: 29-Oct-11			30	3.0	12.2	25	65	310	8.50	Jet Vel:		75	P. Drop:		42.8		



Bit Summary Report

Well ID: SLRI-DV-26

Field: Geysers

Calpine Corp

Well Name: DV-26 SLRI

Sect: 34 Town: 11N Rng: 6W 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				Oth	Pull			
									In	Out								In	Out	Major	Loc			Brg	Gge	
5	1	6.125	S.INT.	XPI 35 OD	PT 2960	20 20 20	0.920	04-Nov-11 00:00	3397	3699	302	31.5	9.6	20000	65	279	8.40	4	4	LT	A	E	0	BT	BHA	
Lost 3 complete inserts.																										
									Report No:	39	Date:	04-Nov-11											Jet Vel:	P. Drop:		
									Report No:	40	Date:	05-Nov-11	243	22.5	10.8	20000	65	279	8.40	Jet Vel:	97.3	P. Drop:		71.1		
									Report No:	41	Date:	06-Nov-11	59	10.0	9.3	20000	65	279	8.40	Jet Vel:	97.3	P. Drop:		71.1		
6	1	6.125	BKR-BIT	GX-28DXO	5183292	20 20 20	0.920	06-Nov-11 00:00	3699	4073	374	44.0	8.5	20	65	263	8.40	4	5	WT	M	E	0	BT	HR	
									Report No:	41	Date:	06-Nov-11	41	5.0	8.2	20000	65	279	8.40	Jet Vel:	97.3	P. Drop:		71.1		
									Report No:	42	Date:	07-Nov-11	160	18.0	8.7	20000	65	279	8.40	Jet Vel:	97.3	P. Drop:		71.1		
									Report No:	43	Date:	08-Nov-11	77	9.0	8.7	20	65	264	8.40	Jet Vel:	92	P. Drop:		63.6		
									Report No:	44	Date:	09-Nov-11	96	12.0	8.5	20	65	264	8.40	Jet Vel:	92	P. Drop:		63.6		
7	1	6.125	S.INT.	XRI28	PS2078	20 20 20	0.920	09-Nov-11 20:00	4073	4294	221	15.5	14.3													
left in hole																										
									Report No:	44	Date:	09-Nov-11	12	1.0	12.0	20	65	264	8.40	Jet Vel:	92	P. Drop:		63.6		
									Report No:	45	Date:	10-Nov-11	209	14.5	14.3	20	65	264	8.40	Jet Vel:	92	P. Drop:		63.6		



Casing Information Report

Calpine Corp

Well ID: SLRI-DV26

Well Name: DV - 26 SLRI

Field: Geysers

Sect: 34 Town: 11N Rng: 8W County: Sonoma State: CA

CASING INFORMATION

Run Date/Time: 09-Oct-11 00:00

Well Section: SURF String Type: FULL

String Top MD (ft): 0.00 String Top TVD (ft):

Casing Shoe MD (ft): 499.21 Casing Shoe TVD (ft):

String Nominal OD (ins): 9.625 String Nominal ID (ins): 8.681

Bit Diameter (ins): 12.625 Avg. Open Hole Diam. (ins): 12.625

Centralizers: No: 6 Manufacturer/Type: HOT

Depths:

Hanger Type: Manufacturer:

Comments: Ran 13 joints of 9 5/8" 47# L-80 Buttruss casing from surface to 499' with the float shoe at 459'.

STRING COMPONENT DETAILS

Joints	Item	Length (ft)	O.D.(ins)	I.D. (ins)	Weight (lbs)	Grade	Connection	Torque
1	FLSHO	1.20	9.625	8.681	47.0	L-80	BUTT	
1	JOINT	38.21	9.625	8.681	47.0	L-80	BUTT	
1	FLOAT	2.17	9.625	8.681	47.0	L-80	BUTT	
12	JOINT	459.63	9.625	8.681	47.0	L-80	BUTT	
Totals:	15	501.21						

**Cementing Report**

Well ID: SLRI-DV 26

Field: Geysers

Calpine Corp

Well Name: DV 26 SLRI

Sect: 34 Town: 11N Rng: 8W County: Sonoma State: CA

CEMENT JOB INFORMATION

Start Date/Time:	09-Oct-11 10:30	Well Bore:	Original Well Bore
Job Type:	PRIMARY	String OD (ins):	9.625
Well Section:	SURF	String Type:	FULL
Cementing Co:	THERMA	Cementing Engineer:	Thomas Costa

PRIMARY JOB DETAIL

	Volume (bbls)	Pump Time	Rate (bbls/min)	Pressure (psi)
Conditioning Data:		30	5.2	200
Cement Data:	59.0	13	4.5	227
Displacement Data:	1.0	1	3.5	380
Calc. Displacement Vol:	1.0			

Batch Mix? Bump Plug? Bump Pressure:
 Returns to Surface: FULL Reciprocate Pipe? Cement at Surface?
 Calc Top of Cement (ft): 0 Excess (%): 50.00 % Avg. Hole Size (ins): 12.250

SLURRY INFORMATION

Type	Density	Yield	Sacks	Volume	Rate	Additives
LEAD	13.00		70	31.0	4.5	CAL PREMIUM/30%SF-200/2%CACL2/10% MS-500/10LBS-SK SLURRYLITE/10LB-SKGYPSSUM/5% TSFL-180
TAIL	15.00		90	28.0	4.5	CAL PREMIUM/30%SF-200/2%CACL2/10% MS-500/5% TSFL-180

POSTJOB INFORMATION

Liner Top Test (lbs/gal):	Job Success?	Yes
Shoe Test (lbs/gal):	CBL Bond Quality:	
Actual Top of Cmt (ft):		
Misc. Comments:		



Casing Information Report

Calpine Corp

Well ID: SLRI-DV-26

Well Name: DV-26 SLRI

Field: Geysers

Sect: 34 Town: 11N Rng: 8W County: Sonoma State: CA

CASING INFORMATION

Run Date/Time: 30-Oct-11 08:30

Well Section: INT1 String Type: FULL

String Top MD (ft): 0.00 String Top TVD (ft):

Casing Shoe MD (ft): 3,378.34 Casing Shoe TVD (ft):

String Nominal OD (ins): 7.000 String Nominal ID (ins): 6.276

Bit Diameter (ins): 8.500 Avg. Open Hole Diam. (ins): 8.500

Centralizers: No: 25 Manufacturer/Type:

Depths:

Hanger Type: Manufacturer:

Comments: Transferred from Casing Tally Detail on 31-Oct-11 06:01

STRING COMPONENT DETAILS

Joints	Item	Length (ft)	O.D.(ins)	I.D. (ins)	Weight (lbs)	Grade	Connection	Torque
1	SHOE	1.01	7.000	6.276	26.0	K-55	BUTT	
56	JOINT	2,512.45	7.000	6.276	26.0	K-55	BUTT	
22	JOINT	864.88	7.000	6.276	26.0	L-80	BUTT	
Totals:	79	3,378.34						

**Cementing Report**

Well ID: SLRI-DV 26

Field: Geysers

Calpine Corp

Well Name: DV 26 SLRI

Sect: 34 Town: 11N Rng: 8W County: Sonoma State: CA

CEMENT JOB INFORMATION

Start Date/Time:	02-Nov-11 23:30	Well Bore:	Original Well Bore
Job Type:	PRIMARY	String OD (ins):	7.000
Well Section:	INT1	String Type:	FULL
Cementing Co:	THERMA	Cementing Engineer:	Chris Shroeder

PRIMARY JOB DETAIL

	Volume (bbls)	Pump Time	Rate (bbls/min)	Pressure (psi)
Conditioning Data:		15	3.3	370
Cement Data:	55.0	17	3.3	100
Displacement Data:				
Calc. Displacement Vol:				
<input type="checkbox"/> Batch Mix? <input type="checkbox"/> Bump Plug? Bump Pressure:				
Returns to Surface: Not Defined <input type="checkbox"/> Reciprocate Pipe? <input type="checkbox"/> Cement at Surface?				
Calc Top of Cement (ft):	0	Excess (%):	Avg. Hole Size (ins):	8.500

SLURRY INFORMATION

Type	Density	Yield	Sacks	Volume	Rate	Additives
PREFLSH	8.38			25.0	3.3	Water
PREFLSH	8.40			20.0	3.3	Mud Flush
PREFLSH	8.38			5.0	3.3	Water
LEAD	13.50	2.14	330	55.0	3.3	Cal Premium cement,30% SF-200,10% MS-500,10 lb/sk Slurrylite, .2% FWCA, .5% TSFL-180

POSTJOB INFORMATION

Liner Top Test (lbs/gal):		Job Success?	Yes
Shoe Test (lbs/gal):		CBL Bond Quality:	
Actual Top of Cmt (ft):			
Misc. Comments:	7" casing stage #2		

**Cementing Report**

Well ID: SLRI-DV-26

Field: Geysers

Calpine Corp

Well Name: DV-26 SLRI

Sect: 34 Town: 11N Rng: 8W County: Sonoma State: CA

CEMENT JOB INFORMATION

Start Date/Time:	02-Nov-11 12:00	Well Bore:	Original Well Bore
Job Type:	PRIMARY	String OD (ins):	7.000
Well Section:	INT1	String Type:	FULL
Cementing Co:	THERMA	Cementing Engineer:	Chris Schroeder

PRIMARY JOB DETAIL

	Volume (bbls)	Pump Time	Rate (bbls/min)	Pressure (psi)
Conditioning Data:		15	3.0	230
Cement Data:	40.5	13	3.0	400
Displacement Data:	22.0	7	3.0	1,100
Calc. Displacement Vol:	22.0			

Batch Mix? Bump Plug? Bump Pressure:
 Reciprocate Pipe? Cement at Surface?

Returns to Surface: NONE
 Calc Top of Cement (ft): 1,800 Excess (%): Avg. Hole Size (ins): 8.500

SLURRY INFORMATION

Type	Density	Yield	Sacks	Volume	Rate	Additives
PREFLSH	8.38			15.0	3.0	Water
PREFLSH	8.40			20.0	3.0	Mud Clean
PREFLSH	8.38			10.0	3.0	Water
TAIL	15.00	1.75	228	40.5	3.0	Cal Premium Cement, 30% SF-200, 10% MS-500, 5% TSFL-180
DISPLACE				22.0	3.0	Water

POSTJOB INFORMATION

Liner Top Test (lbs/gal):		Job Success?	Yes
Shoe Test (lbs/gal):		CBL Bond Quality:	
Actual Top of Cmt (ft):	3,191		
Misc. Comments:	7" casing stage #1		



Casing Information Report

Well ID: SLRI-DV 26

Field: Geysers

Calpine Corp

Well Name: DV - 26 SLRI

Sect: 34 Town: 11N Rng: 8W County: Sonoma State: CA

CASING INFORMATION

Run Date/Time:	11-Nov-11 22:30	String Type:	LINER
Well Section:		String Top TVD (ft):	
String Top MD (ft):	1,766.08	Casing Shoe TVD (ft):	
Casing Shoe MD (ft):	4,137.00	String Nominal ID (ins):	3.830
String Nominal OD (ins):	4.500	Avg. Open Hole Diam. (ins):	6.125
Bit Diameter (ins):	6.125	Manufacturer/Type:	
Centralizers: No:		Manufacturer:	
Depths:			
Hanger Type:			
Comments:	Transferred from Casing Tally Detail on 12-Nov-11 06:32		

STRING COMPONENT DETAILS

Joints	Item	Length (ft)	O.D.(ins)	I.D. (ins)	Weight (lbs)	Grade	Connection	Torque
51	JOINT	2,368.12	4.500	3.826	15.1	L-80	HYD511	
1	LAND	2.80	4.500	3.826	15.1	L-80	HYD511	
Totals:	52	2,370.92						