

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

e- **DISTRIBUTED**
10/30/09 To: Ali Khan
API Well No. 097-90535

Operator Geysers Power Company, LLC		Well D&V-3				
Field Geysers (Unit 18)		County Sonoma	Sec. 34	T. 11N	R. 8W	B.&M. M.D.
Location (Give surface location from property or section corner, street center line.) 1419' South and 180' East of NW corner of Section 34					Elevation of ground above/below sea level 2949'	
Latitude/Longitude (if known)		Latitude:	Longitude:			

Was the well directionally drilled? Yes No If yes, show coordinates at total depth.
2117' North and 768' West from surface

Commenced drilling (date) 8/12/09	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) 9/20/09	7000'	6431' TVD		Which is 30 feet above ground	
Commenced production/injection (date) Pending Hook-Up	Junk			GEOLOGICAL MARKERS Refer to lithology log.	DEPTH
Name of production/injection zone(s)				Formation and age at total depth Franciscan	Base of fresh water

DATE	PRODUCTION TEST DATA									
	STATIC TEST (Shut-in well head)	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)

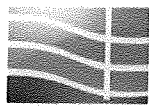
CASING AND CEMENTING RECORD (Present Hole)							
Size of Casing (API) (inches)	Top of Casing (feet)	Depth of Shoe (feet)	Weight of Casing (lbs/ft)	Grade and Type of Casing	Size of Hole Drilled (inches)	Number of Sacks or Cubic Feet of Cement	Top(s) of Cement in Annulus (feet)
22"	Surface	303'	86.6	Welded Plain End	26	425 cf	Surface
16"	Surface	1305'	75	K-55 Seamless	20-1/2"	1525 cf	Surface
11-3/4"	1078'	2829'	54	K-55 Seamless	14-3/4"	1025 cf	1078'
7" 8-5/8"	Surface 1612'	1637' 7000'	26 40	L-80 Seamless L-80 Seamless	16" csg 10-5/8"	N/A N/A	N/A N/A

PERFORATED CASING LINER (Size, top, bottom, perforated intervals, size and spacing of perforations, and method.)
3972' - 7000', 0.25" x 2" slots, 10 rows, 20 slots/ft

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 Rd		City/State Middletown, CA	Zip Code 95461
Telephone 707-431-6102	Signature <i>Marc W. Stellen</i>		Date 10/30/09
E-Mail marc@calpine.com	Fax 707-431-6148		



Well Summary Report

Calpine

Well ID: D&V-3

Well Name: DV 3

Field: Geysers

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

Operator: Geysers Power Company, LLC

Working Interest:

AFE Nos: 218556

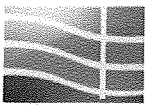
API No: 218556

Spud Date: 15-Aug-09

Location:

Reports for 00:00 on date shown

12-Aug-09	Current Depth (ft):	Hole Drilled (ft):	Ave ROP:
	Current Ops: Rig idle, waited on daylight		
	Operation Summary:		
	Rig idle, waited on daylight. (7 hrs)		
	Held tailboard safety meeting. (0.5 hrs)		
	Loaded out parts of the rig that needed to be moved for skidding to D&V3. Jacked the rig and installed skid plates. (11.5 hrs)		
	Rig idle, waited on daylight. (5 hrs)		
	Comments: Held tailboard safety meeting. Loaded out parts of the rig that needed to be moved for skidding to D&V3. Jacked the rig and installed skid plates.		
	Mud Data: None		
	Surveys: None		
	Daily Costs (\$): 52,898	Well Costs (\$):	52,898
	Drilling Days: 1	Completion Days: 0	Workover Days: 0
13-Aug-09	Current Depth (ft):	Hole Drilled (ft):	Ave ROP:
	Current Ops: Rig idle, waited on daylight		
	Operation Summary:		
	Rig idle, waited on daylight. (6.5 hrs)		
	Sidded rig from DV-4 to DV-3. (12 hrs)		
	Rig idle, waited on daylight. (5.5 hrs)		
	Comments: Skidded rig from DV-4 to DV-3.		
	Mud Data: None		
	Surveys: None		
	Daily Costs (\$): 23,998	Well Costs (\$):	76,896
	Drilling Days: 2	Completion Days: 0	Workover Days: 0
14-Aug-09	Current Depth (ft):	Hole Drilled (ft):	Ave ROP:
	Current Ops: Rig idle, waited on daylight.		
	Operation Summary:		
	Rig idle, waited on daylight. (7 hrs)		
	Held tailboard safety meeting. (0.5 hrs)		
	Finished skidding rig over DV-3 wellhead and set the rest of the equipment that had to be moved for the skid in place. Released the crane and trucks. (11.5 hrs)		
	Rig idle, waiting on daylight. (5 hrs)		
	Comments: Held tailboard safety meeting. Finished skidding rig over DV-3 wellhead and set the rest of the equipment that had to be moved for the skid in place. Released the crane and trucks.		
	Mud Data: None		
	Surveys: None		
	Daily Costs (\$): 22,898	Well Costs (\$):	99,794
	Drilling Days: 3	Completion Days: 0	Workover Days: 0
15-Aug-09	Current Depth (ft):	Hole Drilled (ft):	Ave ROP:



Well Summary Report

Calpine

Well ID: D&V-3

Well Name: DV 3

Field: Geysers

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

Current Ops: Made up 10 5/8" bottom hole assembly. Installed rotating rubber and ran in the hole to 1910'. Ream and worked bit and stab from 1910' to 1960' to clean casing where bridge plug will be set. Pulled out of the hole with 10 5/8" bottom hole assembly.

Operation Summary:

- Rig idle, waited on daylight. (7 hrs)
- Finished rigging up on DV-3. (Rig on day rate at 1100 hours) (4 hrs)
- Nippled up blowout preventers. (10 hrs)
- Killed the well. (1 hrs)
- Hooked up blowout preventer remote and fuction tested. (1 hrs)
- Installed chains and centered the blowout preventers. (1 hrs)

Comments: Rig idle, waited on daylight. Finished rigging up rig. Rig went on day rate at 1100 hours. Nippled up blowout preventers. Killed well with rig pumps Switched over to production water source and continued to keep the well dead. Hooked up the remote and fuction tested blowout preventers, good test . Installed chains and centered stack.

Mud Data: None

Surveys: None

Daily Costs (\$):	33,682	Well Costs (\$):	133,476
Drilling Days:	4	Completion Days:	0
		Workover Days:	0

16-Aug-09	Current Depth (ft):	1,631	Hole Drilled (ft):		Ave ROP:	
------------------	----------------------------	-------	---------------------------	--	-----------------	--

Current Ops: Finished laying down collar locator. Rigged down loggers. Started nipping up blowout preventers

Operation Summary:

- Made up 10 5/8" bottom hole assembly with stab and ran in the hole to 1910'. (4 hrs)
- Ream and worked bit and stab from 1910' to 1970' to clean casing where bridge plug will be set. (1 hrs)
- Pulled out of the hole and laid down 10 5/8" drilling assembly. (3 hrs)
- Held tailboard safety meeting on run bridge plug and setting cement plug. (0.5 hrs)
- Made up 11 3/4" bridge plug on drill pipe and ran in the hole setting it at 1931'. (3.5 hrs)
- Rigged up cementers and set 240 lin. ft. cement whipstock plug at 1931'. (0.5 hrs)
- Pulled out of the hole and laid down the setting tool. (1.5 hrs)
- Nippled down blowout preventer to run 16" casing profile log. (6 hrs)
- Held safety tailboard meeting on wireline logging. (0.5 hrs)
- Rigged up loggers and ran 16" casing profile log. Ran collar locator log. (3.5 hrs)

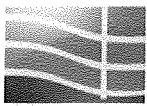
Comments: Made up 10 5/8" bottom hole assembly. Continued to pump water down well bore to keep the well dead. Installed rotating rubber and ran in the hole to 1910'. Ream and worked bit and stab from 1910' to 1970' to clean casing where bridge plug will be set. Pulled out of the hole with 10 5/8" bottom hole assembly. Made up the 11 3/4" bridge plug and ran it in the hole to 1931'. Set bridge plug at 1931', (shut water from going down the wellbore). Rigged up Halliburton and pump a 27 bbls cement plug slurry (240 lin. ft.). Pulled out of the hole and laid down the setting tool. Serviced the rig. Nipple down the blow out preventers to run 16" casing profile, (logging tool will not fit through the blowout preventers). Held tailboard safety meeting on running wireline logs. Rigged up loggers and ran 16" casing profile log. Ran collar locator log.

Mud Data: None

Surveys: None

Daily Costs (\$):	65,854	Well Costs (\$):	199,330
Drilling Days:	5	Completion Days:	0
		Workover Days:	0

17-Aug-09	Current Depth (ft):	1,804	Hole Drilled (ft):	173	Ave ROP:	
------------------	----------------------------	-------	---------------------------	-----	-----------------	--



Well Summary Report

Calpine

Well ID: D&V-3

Well Name: DV 3

Field: Geysers

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

Current Ops: Finished running minimum I.D. log, changed tools and ran collar locator log. Rigged down loggers. Ran in the hole with 10 5/8" drilling assembly tagging top of the polished off plug at 1804'. Polished plug off to 1810'. Pulled out of the hole with 10 5/8" drilling assembly.

Operation Summary:

Finished running collar locator log and rigged down loggers. (2 hrs)
Nipple blowout preventer back up and function tested. (9 hrs)
Made up 10 5/8" bottom hole assembly and ran in the hole tagging the top of the cement plug at 1694' (3.5 hrs)
Cleaned out cement with water from 1694' to 1802'. (3.5 hrs)
Circulated the hole clean. (1 hrs)
Pulled out of the hole with 10 5/8" bottom hole assembly. (2 hrs)
Held tailboard safety meeting on running wireline logs. (0.5 hrs)
Rigged up loggers and ran minimum I.D. caliper log. Changed tools and ran collar locator log down in the 11 3/4" casing. (2.5 hrs)

Comments: Finished running collar locator log and rigged down logger. Nipped blow out preventers back up and function tested them. Made up 10 5/8" bottom hole assembly and ran in the hole tagging top of the cement plug at 1694'. Cleaned out cement with water from 1694' to 1802'. Circulated the hole clean. Pulled out of the hole with 10 5/8" bottom hole assembly. Held tailboard safety meeting on running wireline logs. Rigged up loggers and ran minimum I.D. caliper log.

Mud Data: None

Surveys: None

Daily Costs (\$):	109,211	Well Costs (\$):	308,541
Drilling Days:	6	Completion Days:	0
		Workover Days:	0

18-Aug-09	Current Depth (ft):	1,804	Hole Drilled (ft):	0	Ave ROP:
------------------	----------------------------	-------	---------------------------	---	-----------------

Current Ops: 00:00 to 06:00 Ran in the hole and set the Whipstock at 1808' and started cutting the window making 8' and started losing 170 bbls per hour.

Operation Summary:

Ran collar locator log down in the 11 3/4" casing and rigged down the loggers. (2.5 hrs)
Ran in the hole with a 10 5/8" bit to 1804'. (2 hrs)
Cleaned out cement from 1804' to 1810'. (0.5 hrs)
Circulated the hole clean at 1810'. (1 hrs)
Pulled out of the hole. (3 hrs)
Ran in the hole with the BHA whipstock gauge run to 1810'. (2 hrs)
Built mud volume and changed the hole over to mud. (4.5 hrs)
Pulled out of the hole and laid down tools. (2.5 hrs)
Made up Whipstock and Gyro and ran in the hole. (6 hrs)

Comments: Ran collar locator log down in the 11 3/4" casing and rigged down the loggers. Ran in the hole with a 10 5/8" bit to 1804'. Cleaned out cement from 1804' to 1810'. Circulated the hole clean at 1810'. Pulled out of the hole. Ran in the hole with the BHA whipstock gauge run to 1810'. Built mud volume and changed the hole over to mud. Pulled out of the hole and laid down tools. Made up Whipstock and Gyro and ran in the hole.

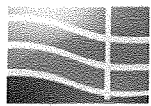
Mud Data: MW: 8.6 Viscosity: 38 Filtrate: 28

Surveys: None

Daily Costs (\$):	167,859	Well Costs (\$):	476,400
Drilling Days:	7	Completion Days:	0
		Workover Days:	0

19-Aug-09	Current Depth (ft):	1,804	Hole Drilled (ft):		Ave ROP:
------------------	----------------------------	-------	---------------------------	--	-----------------

Current Ops: 00:00 to 06:00 Milled on the window. Pulled out of the hole and laid down the milling assembly and started to pick up a new milling assembly.



Well Summary Report

Calpine

Well ID: D&V-3

Well Name: DV 3

Field: Geysers

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

Operation Summary:

Ran in the hole with the whipstock to 1810'. (1.5 hrs)
 Ran gyro surveys and set the whipstock at 1808'. (2 hrs)
 Milled on casing window from 1781' to 1789' with an 170 bbls per hour fluid loss. (1.5 hrs)
 Built mud volume. (5.5 hrs)
 Milled on casing window from 1789' to 1804'. Added lost circulation material and slowed the fluid loss to 20 to 30 bbls per hour. (13.5 hrs)

Comments: Ran in the hole with the whipstock to 1810'. Ran gyro surveys and set the whipstock at 1808'. Milled on casing window from 1781' to 1789' with an 170 bbls per hour fluid loss. Built mud volume. Milled on casing window from 1789' to 1804'. Added lost circulation material and slowed the fluid loss to 20 to 30 bbls per hour.

Mud Data: MW: 8.7 Viscosity: 78 Filtrate: 24

Surveys: None

Daily Costs (\$):	155,034	Well Costs (\$):	631,434
Drilling Days:	8	Completion Days:	0
		Workover Days:	0

20-Aug-09

Current Depth (ft): 1,819 **Hole Drilled (ft):** 15 **Ave ROP:**

Current Ops: 00:00 to 06:00 Directional drilled from 1819' to 1826' and had a tool failure. Pulled out of the hole to change the directional tool.

Operation Summary:

Milled on the casing window at 1804'. (0.5 hrs)
 Pulled out of the hole and laid down the milling assembly. (5.5 hrs)
 Picked up a 10 5/8" bit and two string mills and ran in the hole. (3.5 hrs)
 Milled on the casing window from 1779' to 1798'. (1 hrs)
 Drilled 10 5/8" hole from 1804' to 1819'. (1.5 hrs)
 Circulated and spotted lost circulation material on bottom. (0.5 hrs)
 Pulled out of the hole and laid down the string mills. (2.5 hrs)
 Made up directional tools and ran in the hole to 1819'. Laid down 16 jts. of working pipe out of the derrick. (6 hrs)
 Circulated at 1819' and attempt to get the directional tools working. (2 hrs)
 Pulled out of the hole to 1228' and regained a signal from the directional tools and ran back in the hole to 1819'. (1 hrs)

Comments: Milled on the casing window at 1804'. Pulled out of the hole and laid down the milling assembly. Picked up a 10 5/8" bit and two string mills and ran in the hole. Milled on the casing window from 1779' to 1798'. Drilled 10 5/8" hole from 1804' to 1819'. Circulated and spotted lost circulation material on bottom. Pulled out of the hole and laid down the string mills. Made up directional tools and ran in the hole to 1819'. Laid down 16 jts. of working pipe out of the derrick. Circulated at 1819' and attempt to get the directional tools working. Pulled out of the hole to 1228' and regained a signal from the directional tools and ran back in the hole to 1819'.

Mud Data: MW: 8.8 Viscosity: 44 Filtrate: 25

Surveys: None

Daily Costs (\$):	47,873	Well Costs (\$):	679,307
Drilling Days:	9	Completion Days:	0
		Workover Days:	0

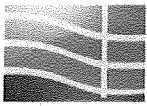
21-Aug-09

Current Depth (ft): 1,942 **Hole Drilled (ft):** 123 **Ave ROP:** 10.0

Current Ops: 00:00 to 06:00 Directional drilled from 1942' to 1974' and lost circulation. Spotted a LCM pill and pulled out of the hole to 652' and mixed mud.

Operation Summary:

Directional drilled from 1819' to 1826'. Directional tool failed. (1.5 hrs)
 Pulled out of the hole and laid down the EM MWD survey tool. (4 hrs)
 Installed pulse survey tool. (5 hrs)
 Ran in the hole to 1826'. (1.5 hrs)



Well Summary Report

Calpine

Well ID: D&V-3

Well Name: DV 3

Field: Geysers

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

Directional drilled from 1826' to 1915' loosing 15 to 20 bbls an hour. Lost complete circulation at 1913'. (5 hrs)

Mixed and spotted a lost circulation pill at 1915'. (1 hrs)

Pulled out of the hole to 652'. (0.5 hrs)

Mixed mud and built mud volume. (2.5 hrs)

Ran in the hole to 1915'. (1 hrs)

Directional drilled from 1915' to 1942' loosing 10 bbls an hour. (2 hrs)

Comments: Directional drilled from 1819' to 1826'. Directional tool failed. Pulled out of the hole and laid down the GMS survey tool. Installed pulse survey tool. Ran in the hole to 1826'. Directional drilled from 1826' to 1915' loosing 15 to 20 bbls an hour. Lost complete circulation at 1913'. Mixed and spotted a lost circulation pill at 1915'. Pulled out of the hole to 652'. Mixed mud and built mud volume. Ran in the hole to 1915'. Directional drilled from 1915' to 1942' loosing 10 bbls an hour.

Mud Data: MW: 8.9 Viscosity: 45 Filtrate: 20

Surveys: None

Daily Costs (\$):	68,146	Well Costs (\$):	747,453
Drilling Days:	10	Completion Days:	0
		Workover Days:	0

22-Aug-09

Current Depth (ft): 1,987 **Hole Drilled (ft):** 45 **Ave ROP:**

Current Ops: 00:00 to 06:00 Set cement plug # 2 at 1932' and pulled out of the hole and waited on cement to harden.

Operation Summary:

Directional drilled from 1942' to 1974'. Lost complete circulation. (2.5 hrs)

Spotted a lost circulation pill at 1987'. (0.5 hrs)

Pulled out of the hole to 652'. (1 hrs)

Mixed mud and built mud volume. (1.5 hrs)

Ran in the hole to 1974'. (1 hrs)

Directional drilled from 1974' to 1987'. (No returns) (0.5 hrs)

Pulled out of the hole. (3 hrs)

Picked up drill pipe for the cement plug. (2 hrs)

Mixed mud and built mud volume. (1 hrs)

Made up the dart catcher and ran in the hole to 1957'. (1.5 hrs)

Set a 200 lin ft. cement plug at 1957'. (1.5 hrs)

Pulled out of the hole. (1 hrs)

Waited on cement. (5 hrs)

Pumped 300 bbls of mud and the hole would not fill. (0.5 hrs)

Ran in the hole and tagged cement at 1937'. (1.5 hrs)

Comments: Directional drilled from 1942' to 1974'. Lost complete circulation. Spotted a lost circulation pill at 1987'. Pulled out of the hole to 652'. Mixed mud and built mud volume. Ran in the hole to 1974'. Directional drilled from 1974' to 1987'. (No returns) Pulled out of the hole. Picked up drill pipe for the cement plug. Mixed mud and built mud volume. Made up the dart catcher and ran in the hole to 1957'. Set a 200 lin ft. cement plug at 1957'. Pulled out of the hole. Waited on cement. Pumped 300 bbls of mud and the hole would not fill. Ran in the hole and tagged cement at 1937'.

Mud Data: MW: 8.6 Viscosity: 55 Filtrate: 21

Surveys: None

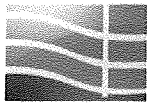
Daily Costs (\$):	53,551	Well Costs (\$):	801,004
Drilling Days:	11	Completion Days:	0
		Workover Days:	0

23-Aug-09

Current Depth (ft): 2,051 **Hole Drilled (ft):** 64 **Ave ROP:**

Current Ops: 00:00 to 06:00 Pulled out of the hole and built mud volume and ran back in and directional drilled to 2133'.

Operation Summary:



Well Summary Report

Calpine

Well ID: D&V-3

Well Name: DV 3

Field: Geysers

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

Set 200 lin. ft. lost circulation cement plug # 2 at 1932'. (1 hrs)
 Pulled out of the hole. (1.5 hrs)
 Waited on cement to harden. (8 hrs)
 Pumped 150 bbls and filled the hole and monitored for loss. (No Loss) (0.5 hrs)
 Installed EM MWD survey tool and run in the hole. Tagged cement at 1840'. (3 hrs)
 Cleaned out cement from 1840' to 1987'. (2.5 hrs)
 Directional drilled from 1987' to 2023'. Lost circulation at 2023'. (1.5 hrs)
 Spotted LCM pill on bottom and pulled out of the hole to 1517'. (1 hrs)
 Mixed mud and built mud volume. (2.5 hrs)
 Ran in the hole to 2023'. (0.5 hrs)
 Directional drilled from 2023' to 2051'. (2 hrs)

Comments: Set 200 lin. ft. lost circulation cement plug # 2 at 1932'. Pulled out of the hole. Waited on cement to harden. Pumped 150 bbls and filled the hole and monitored for loss. (No Loss) Installed GMS survey tool and run in the hole. Tagged cement at 1840'. Cleaned out cement from 1840' to 1987'. Directional drilled from 1987' to 2023'. Lost circulation at 2023'. Spotted LCM pill on bottom and pulled out of the hole to 1517'. Mixed mud and built mud volume. Ran in the hole to 2023'. Directional drilled from 2023' to 2051'.

Mud Data: MW: 8.6 Viscosity: 43 Filtrate: 22

Surveys: None

Daily Costs (\$):	79,513	Well Costs (\$):	880,517
Drilling Days:	12	Completion Days:	0
		Workover Days:	0

24-Aug-09

Current Depth (ft):	2,197	Hole Drilled (ft):	146	Ave ROP:
----------------------------	-------	---------------------------	-----	-----------------

Current Ops: 00:00 to 06:00 Attempted to fill the hole with no returns. Ran in the hole and tagged cement at 2064'. Set a 200 lin. ft. cement plug # 4 at 2054' and pulled out of the hole and waited on cement to harden.

Operation Summary:

Pulled out of the hole to 1517'. (0.5 hrs)
 Mix mud and built mud volume. (2 hrs)
 Ran in the hole to 2051'. (0.5 hrs)
 Directional drilled from 2051' to 2182'. (No Returns) (5 hrs)
 Pulled out of the hole to 1772'. (0.5 hrs)
 Mixed mud and built mud volume. (1.5 hrs)
 Ran in the hole to 2182'. (0.5 hrs)
 Directional drilled from 2182' to 2197'. (No Returns) (1 hrs)
 Pulled out of the hole. (2.5 hrs)
 Made up dart catcher and ran in the hole with drill pipe to 2182'. (1.5 hrs)
 Set a 200 lin. ft. lost circulation cement plug # 3 at 2182'. (1 hrs)
 Pulled out of the hole. (0.5 hrs)
 Waited on cement to harden. (7 hrs)

Comments: Pulled out of the hole to 1517'. Mix mud and built mud volume. Ran in the hole to 2051'. Directional drilled from 2051' to 2182'. (No Returns) Pulled out of the hole to 1772'. Mixed mud and built mud volume. Ran in the hole to 2182'. Directional drilled from 2182' to 2197'. (No Returns) Pulled out of the hole. Made up dart catcher and ran in the hole with drill pipe to 2182'. Set a 200 lin. ft. lost circulation cement plug # 3 at 2182'. Pulled out of the hole. Waited on cement to harden.

Mud Data: MW: 8.5 Viscosity: 40 Filtrate: 28

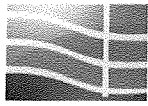
Surveys: None

Daily Costs (\$):	93,245	Well Costs (\$):	973,762
Drilling Days:	13	Completion Days:	0
		Workover Days:	0

25-Aug-09

Current Depth (ft):	2,197	Hole Drilled (ft):		Ave ROP:
----------------------------	-------	---------------------------	--	-----------------

Current Ops: 0000-0600 Pulled up to 1923'. Held tailboard safety meeting. Rigged up and pump a



Well Summary Report

Calpine

Well ID: D&V-3

Well Name: DV 3

Field: Geysers

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

200 lin. ft. cement plug #5 at 1923'. Pulled out of the hole and waited on cement to harden.

Operation Summary:

- Waited on cement to harden. (1 hrs)
- Pumped 380 bbls and attempted to fill the hole with no returns. (0.5 hrs)
- Ran in the hole and tagged top of the cement at 2054'. (1.5 hrs)
- Held safety tailboard on setting cement plugs. (0.5 hrs)
- Pump a 200 lin. ft. cement plug at 2054'. (0.5 hrs)
- Pulled out of the hole and laid down cement dart catcher. (1.5 hrs)
- Waited on cement to harden. (6.5 hrs)
- Pumped 380 bbls of mud and attempted to fill the hole with no returns. (0.5 hrs)
- Mixed mud and built volume while waiting on cementers and cement to arrive. (10.5 hrs)
- Made up the plug catcher and ran in the hole tagging cement plug #4 at 1946'. (1 hrs)

Comments: Waited on cement. Pumped 380 bbls and attempted to fill the hole with no returns. Ran in the hole and tagged cement at 2064'. Set a 200 lin. ft. cement plug # 4 at 2054' and pulled out of the hole and waited on cement to harden. Pumped 380 bbls of mud and attempted to fill the hole with no returns. Mixed mud and built volume while waiting on cement to harden. Waited on cementers. Note: Cementers had to detour due to an accident so were delayed. Made up plug catcher and ran in the hole tagging cement plug #4 at 1946'.

Mud Data: MW: 8.5 Viscosity: 41 Filtrate: 33

Surveys: None

Daily Costs (\$):	63,473	Well Costs (\$):	1,037,235
Drilling Days:	14	Completion Days:	0
		Workover Days:	0

26-Aug-09

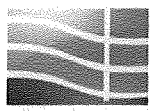
Current Depth (ft): 2,316 **Hole Drilled (ft):** 119 **Ave ROP:**

Current Ops: 0000-0600 Spotted LCM pill on bottom at 2316'. Pulled out of the hole up into the window at 1750'. Mixed mud and built volume. Ran in the hole to bottom at 2316'. Directional drilled blind to 2362'.

Operation Summary:

- Pulled up to 1923'. (0.5 hrs)
- Held safety tailboard on setting cement lost circulation plug with the cementers. (0.5 hrs)
- Rigged up cementers and pumped a 200 lin. ft. cement plug at 1923'. (1 hrs)
- Pulled out of the hole and laid down the plug catcher. (1 hrs)
- Waited on cement to harden. (5 hrs)
- Pumped and filled the hole with 180 bbls of mud, hole stayed full. (0.5 hrs)
- Ran in the hole with 10 5/8" directional drilling assembly tagging up at 1850'. (2 hrs)
- Cleaned out cement from 1850' to bottom at 2197'. (6 hrs)
- Directional drilled from 2197' to 2294' with losses from 20 bph to 80 bph. At 2294' lost total circulation. (3.5 hrs)
- Mixed and pumped a lost circulation pill on bottom. (0.5 hrs)
- Pulled up to 1750' (up inside the window). (0.5 hrs)
- Mixed mud and built volume. (1.5 hrs)
- Ran back in the hole to bottom at 2294'. (0.5 hrs)
- Directional drilled blind from 2294' to 2316'. (1 hrs)

Comments: Pulled up to 1923'. Held tailboard safety meeting. Rigged up and pump a 200 lin. ft. cement plug #5 at 1923'. Pulled out of the hole and waited on cement to harden. Pumped and filled hole with 180 bbls of mud, hole stayed full. Made up directional assembly and ran in the hole tagging top of cement plug #5 at 1850'. Cleaned out cement from 1850' to bottom at 2197' with no losses. Directional drilled from 2197' to 2294' with sporadic losses from 20 to 80 bph. At 2294' lost total circulation. Mixed and spotted a lost circulation material pill on bottom and pulled out of the hole to 1750',(up in the window) and mixed mud and built volume. Ran back to bottom at 2294'. Directional drilled blind from 2294' to 2316'.



Well Summary Report

Calpine

Well ID: D&V-3

Well Name: DV 3

Field: Geysers

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

Mud Data: MW: 8.5 Viscosity: 40 Filtrate: 24

Surveys: None

Daily Costs (\$): 84,403

Well Costs (\$): 1,121,638

Drilling Days: 15

Completion Days: 0

Workover Days: 0

27-Aug-09

Current Depth (ft): 2,472

Hole Drilled (ft): 156

Ave ROP:

Current Ops: 0000-0600 Made up 10 5/8" bottom hole assembly. Ran in blowing the hole down to top window at 1779', no fluid in the hole. Slid through the window and started reaming 10 5/8" hole at 1800'.

Operation Summary:

Directional drilled blind pulling up into the window at 1750' and mixing mud when needed from 2316' to 2472'. (15 hrs)

Worked and cleaned tight hole at 2472'. (1.5 hrs)

Pulled out of the hole and laid down the directional tools. Cleaned the mud pits and rigged up to change over to air. (4.5 hrs)

Cleaned the mud pits. (2 hrs)

Rigged up to change over to air. (1 hrs)

Comments: Directional drilled blind pulling up into the window at 1750' and mixing mud when needed from 2316' to 2472'. Worked and cleaned tight hole at 2472'. Pulled out of the hole and laid down the directional tools. Cleaned the mud pits and rigged up to change over to air.

Mud Data: MW: 8.5 Viscosity: 39 Filtrate: 32

Surveys: None

Daily Costs (\$): 77,346

Well Costs (\$): 1,198,984

Drilling Days: 16

Completion Days: 0

Workover Days: 0

28-Aug-09

Current Depth (ft): 2,538

Hole Drilled (ft): 66

Ave ROP:

Current Ops: 0000-0600 Reamed 10 5/8" hole from 2338' to bottom at 2538'. Drilled from 2538' to 2661' with air.

Operation Summary:

Made up 10 5/8" reaming assembly and ran in the hole to 1800'. (5 hrs)

Ream directional hole with reaming assembly from 1800' to bottom at 2472'. (5 hrs)

Drilled 10 5/8" hole with air from 2472' to 2538'. (3 hrs)

Blew and dried up hole, hole made around 250 bbls of water/mud. (1.5 hrs)

Took wireline directional survey at 2479'. (0.5 hrs)

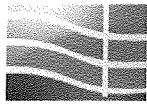
Pulled out of the hole and laid down reaming assembly. (4.5 hrs)

Changed out locked up bearing body on rotating head. (1.5 hrs)

Made up 10 5/8" building drilling assembly and ran in the hole to 2332'. (3 hrs)

Comments: Made up reaming assembly with button roller reamers. Ran in the hole blowing down the hole, no fluid down to 1800'. Started reaming the directional hole from 1800'. Reamed 10 5/8" directional hole to bottom at 2472', started seeing 16,000# of steam at 2180'. Drilled 10 5/8" hole with air from 2472' to 2538'. Blew, cleaned and dried the hole, hole made about 250 bbls of water/mud. Took wireline directional survey at 2479'. Pulled out of the hole and laid down reaming assembly. Changed out locked up bearing assembly on the rotating head. Made up 10 5/8" building assembly. Ran in the hole to 2332'. Started reaming at 2332'.

(#/hr)	Steam (#/hr)	H2S (ppm)	H2S (#/hr)	NH3 (ppm)	NH3
Restricted Air On	13,400	10	.13		
70 .94					
Restricted Air Off	13,400	19	.25		
70 .94					
Unrestricted	16,300	19	.31	70	



Well Summary Report

Calpine

Well ID: D&V-3

Well Name: DV 3

Field: Geysers

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

	1.14			
Mud Data:	None			
Surveys:	None			
Daily Costs (\$):	68,677	Well Costs (\$):	1,267,661	
Drilling Days:	17	Completion Days:	0	Workover Days: 0

29-Aug-09	Current Depth (ft): 2,854	Hole Drilled (ft): 2,854	Ave ROP: 22.0
------------------	----------------------------------	---------------------------------	----------------------

Current Ops: 0000-0600 Finished making up 10 5/8" locked up drilling assembly. Ran in the hole to 2767'. Reamed from 2767' to bottom at 2854'. Drilled 10 5/8" hole with air from 2854' to 2871'.

Operation Summary:

- Reamed 10 5/8" hole from 2332' to bottom at 2538'. (1.5 hrs)
- Drilled 10 5/8" hole with building assembly and air from 2538' to 2661'. (4.5 hrs)
- Blew and clean the hole. (0.5 hrs)
- Took directional wireline survey at 2111'. (0.5 hrs)
- Drilled 10 5/8" hole from 2661' to 2789' (6 hrs)
- Blew and cleaned the hole. (0.5 hrs)
- Took directional wireline survey at 2745'. (0.5 hrs)
- Drilled 10 5/8" hole with air from 2789' to 2854'. (3.5 hrs)
- Blew and clean the hole. (0.5 hrs)
- Took directional wireline survey at 2810'. (0.5 hrs)
- Pulled out of the hole with 10 5/8" building assembly. (4.5 hrs)
- Serviced the rig. (0.5 hrs)
- Started making up 10 5/8" locked up drilling assembly. (0.5 hrs)

Comments: Reamed 10 5/8" hole from 2332' to bottom at 2538' with air. Drilled 10 5/8" hole with building assembly from 2538' to 2854' taking wireline directional surveys every 120'. Blew and cleaned the hole. Pulled out of the hole with 10 5/8" building assembly. Gauged tools and started making up 10 5/8" locked up drilling assembly with new bit #4.

(#/hr)	Steam (#/hr)	H2S (ppm)	H2S (#/hr)	NH3 (ppm)	NH3
Restricted Air On 1.63	23,300	15	.35	70	
Restricted Air Off 1.63	23,300	20	.47	70	
Unrestricted 1.99	28,400	20	.57	70	

Mud Data: None

Surveys: None

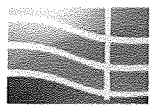
	Daily Costs (\$): 52,410	Well Costs (\$): 1,320,071
	Drilling Days: 18	Completion Days: 0 Workover Days: 0

30-Aug-09	Current Depth (ft): 3,244	Hole Drilled (ft): 390	Ave ROP: 203.9
------------------	----------------------------------	-------------------------------	-----------------------

Current Ops: Drilled 10 5/8" hole with air from 3244' to 3348 taking a wireline directional survey at 3348'. Lost all weight at 3348', picked up and had only the saver sub below the kelly.

Operation Summary:

- Finished making up 10 5/8" locked up drilling assembly. (3.5 hrs)
- Reamed from 2767' to bottom at 2854'. (1 hrs)
- Drilled 10 5/8" hole with air from 2854' to 2934'. (4 hrs)
- Blew and cleaned the hole. (0.5 hrs)
- Took directional wireline survey at 2852'. (0.5 hrs)
- Drilled 10 5/8" hole from 2934' to 3030'. (5.5 hrs)



Well Summary Report

Calpine

Well ID: D&V-3

Well Name: DV 3

Field: Geysers

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

Blew and cleaned the hole. (0.5 hrs)
 Took directional wireline survey at 2947'. (0.5 hrs)
 Drilled 10 5/8" hole from 3030' to 3157'. (4.5 hrs)
 Blew and cleaned the hole. (0.5 hrs)
 Took directional wireline survey at 3075'. (0.5 hrs)
 Drilled 10 5/8" hole from 3157' to 3244'. (2.5 hrs)

Comments: Finished making up 10 5/8" locked up drilling assembly. Ran in the hole to 2767'. Reamed from 2767' to bottom at 2854'. Drilled 10 5/8" hole with air taking wireline surveys every 90' to 120' from 2854' to 3244'.

(#/hr)	Steam (#/hr)	H2S (ppm)	H2S (#/hr)	NH3 (ppm)	NH3
Restricted Air On 1.63	22,800	22	0.5	70	
Restricted Air Off 1.63	22,800	20	.46	70	
Unrestricted 1.99	27,800	20	.56	70	

Mud Data: None

Surveys: None

Daily Costs (\$):	34,899	Well Costs (\$):	1,354,970
Drilling Days:	19	Completion Days:	0
		Workover Days:	0

31-Aug-09

Current Depth (ft): 3,348 **Hole Drilled (ft):** 104 **Ave ROP:** 23.6

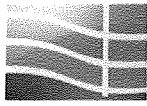
Current Ops: 00:00 to 06:00 Ran in the hole and free pointed pipe free at 1923'. Ran 3 back off shots and backed the pipe off at 1715'. Pulled out of the hole laying down bent drill pipe.

Operation Summary:

Drilled 10 5/8" hole on air from 3244' to 3318'. (2.5 hrs)
 Circulated the hole clean. Performed a wet test at 3318'. (0.5 hrs)
 Took a directional wireline survey at 3236'. (0.5 hrs)
 Drilled 10 5/8" hole on air from 3318' to 3348' and the pipe twisted off down hole and spun off the kelly at the saver sub. (1 hrs)
 Ran in the hole and attempted to screw into the fish. Pulled out of the hole. (3.5 hrs)
 Ran in the hole with a 12 1/4" bit and tagged the top of the fish at 138'. Pulled out of the hole and laid down the bit. (2 hrs)
 Waited on fishing tools. (4 hrs)
 Made up the fishing tools and ran in the hole and screwed into the fish at 138'. Worked the stuck pipe. (6 hrs)
 Riggged up the wire line truck and ran the free point. (4 hrs)

Comments: Drilled 10 5/8" hole on air from 3244' to 3318'. Circulated the hole clean. Performed a wet test at 3318'. Took a directional wireline survey at 3236'. Drilled 10 5/8" hole on air from 3318' to 3348' and the pipe twisted off down hole and spun off the kelly at the saver sub. Ran in the hole and attempted to screw into the fish. Pulled out of the hole. Ran in the hole with a 12 1/4" bit and tagged the top of the fish at 138'. Pulled out of the hole and laid down the bit. Waited on fishing tools. Made up the fishing tools and ran in the hole and screwed into the fish at 138'. Worked the stuck pipe. Riggged up the wire line truck and ran the free point.

(#/hr)	Steam (#/hr)	H2S (ppm)	H2S (#/hr)	NH3 (ppm)	NH3
Restricted Air On 1.6	22,800	22	0.5	70	
Restricted Air Off 1.6	22,800	29	0.7	70	
Unrestricted	27,800	29	0.8	70	



Well Summary Report

Calpine

Well ID: D&V-3

Well Name: DV 3

Field: Geysers

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

	1.9			
Mud Data:	None			
Surveys:	None			
Daily Costs (\$):	55,137	Well Costs (\$):	1,410,107	
Drilling Days:	20	Completion Days:	0	Workover Days: 0

01-Sep-09	Current Depth (ft): 3,348	Hole Drilled (ft):	Ave ROP: 29.7
------------------	----------------------------------	---------------------------	----------------------

Current Ops: 00:00 to 06:00 Worked over the second fish at 1993' and pulled out of the hole with it. Laid down the fishing tools and continued to pull out of the hole with the second fish.

Operation Summary:

Ran free point and three back off shots and backed off the pipe at 1715'. (2 hrs)
 Laid down the fishing tools. (1 hrs)
 Pulled out of the hole laying down bent drill pipe. Recovered 49 joints of drill pipe. (7 hrs)
 Made up the fishing tools and picked up new drill collars. Ran in the hole to 1715'. (4 hrs)
 Screwed into the fish at 1715' and jared on the fish and pumped a 5 bbls water to free the pipe. (1 hrs)
 Pulled out of the hole and recovered all of the first fish. (3 hrs)
 Serviced the rig and slipped and cut the drilling line. (2.5 hrs)
 Installed the 8" master rubber and cleared the floor of tools. (1 hrs)
 Made up the fishing tools (9 5/8" overshot) and ran in the hole to the top of the second fish at 1993'. (2.5 hrs)

Comments: Ran free point and three back off shots and backed off the pipe at 1715'. Laid down the fishing tools. Pulled out of the hole laying down bent drill pipe. Recovered 49 joints of drill pipe. Made up the fishing tools and picked up new drill collars. Ran in the hole to 1715'. Screwed into the fish at 1715' and jared on the fish and pumped a 5 bbls water to free the pipe. Pulled out of the hole and recovered all of the first fish. Serviced the rig and slipped and cut the drilling line. Installed the 8" master rubber and cleared the floor of tools. Made up the fishing tools (9 5/8" overshot) and ran in the hole to the top of the second fish at 1993'.

	Steam (#/hr)	H2S (ppm)	H2S (#/hr)	NH3 (ppm)	NH3 (#/hr)
Restricted Air On	22,800	22	0.5	70	1.6
Restricted Air Off	22,800	29	0.7	70	1.6
Unrestricted	27,800	29	0.8	70	1.9

Mud Data: None

Surveys: None

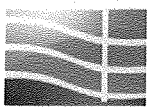
Daily Costs (\$):	82,072	Well Costs (\$):	1,492,179	
Drilling Days:	21	Completion Days:	0	Workover Days: 0

02-Sep-09	Current Depth (ft): 3,348	Hole Drilled (ft):	Ave ROP:
------------------	----------------------------------	---------------------------	-----------------

Current Ops: 00:00 to 06:00 Inspected the BHA.

Operation Summary:

Worked overshot on to the fish and pulled free. (0.5 hrs)
 Pulled out of the hole to the fishing tools and laid down the overshot. (3.5 hrs)
 Pulled out of the hole. Recovered 100% of the fish. (5 hrs)
 Serviced the rig. (0.5 hrs)
 Worked fishing drill collars and 20# drill pipe out of the derrick and laid it all down. (9.5 hrs)
 Inspected the bottom hole assembly. (Magnetic Partical Check) (5 hrs)



Well Summary Report

Calpine

Well ID: D&V-3

Well Name: DV 3

Field: Geysers

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

Comments: Worked overshot on to the fish and pulled free. Pulled out of the hole to the fishing tools and laid down the overshot. Pulled out of the hole. Recovered 100% of the fish. Serviced the rig. Worked fishing drill collars and 20# drill pipe out of the derrick and laid it all down. Inspected the bottom hole assembly. (Magnetic Partical Check)

Steam (#/hr)	H2S (ppm)	H2S (#/hr)	NH3 (ppm)	NH3 (#/hr)
Restricted Air On	22,800	22	0.5	70
1.6				
Restricted Air Off	22,800	29	0.7	70
1.6				
Unrestricted	27,800	29	0.8	70
1.9				

Mud Data: None

Surveys: None

Daily Costs (\$):	72,115	Well Costs (\$):	1,564,294
Drilling Days:	22	Completion Days:	0
		Workover Days:	0

03-Sep-09

Current Depth (ft): 3,572 **Hole Drilled (ft):** 224 **Ave ROP:**

Current Ops: 00:00 to 06:00 Drilled and surveyed to 3699'. Surveyed and lost the survey tool due to unisteam build up in the pipe.

Operation Summary:

Inspected the bottom hole assembly. (Magnetic Particle Check) (5.5 hrs)
 Ran in the hole picking up 22.82# drill pipe to 3279'. (8 hrs)
 Reamed from 3279' to 3348'. (0.5 hrs)
 Drilled 10 5/8" hole on air from 3348' to 3414'. (3 hrs)
 Circulated and ran a directional wireline survey at 3339'. (1 hrs)
 Drilled 10 5/8" hole on air from 3414' to 3508'. (3 hrs)
 Circulated and ran a directional wireline survey at 3433'. (1 hrs)
 Drilled 10 5/8" hole on air from 3508' to 3572'. (2 hrs)

Comments: Inspected the bottom hole assembly. (Magnetic Particle Check) Ran in the hole picking up 22.82# drill pipe to 3279'. Ran in the hole picking up 22.82# drill pipe to 3279'. Reamed from 3279' to 3348'. Drilled 10 5/8" hole on air from 3348' to 3414'. Circulated and ran a directional wireline survey at 3339'. Circulated and ran a directional wireline survey at 3339'. Drilled 10 5/8" hole on air from 3414' to 3508'. Circulated and ran a directional wireline survey at 3433'. Drilled 10 5/8" hole on air from 3508' to 3572'.

Steam (#/hr)	H2S (ppm)	H2S (#/hr)	NH3 (ppm)	NH3 (#/hr)
Restricted Air On	22,800	22	0.5	70
1.6				
Restricted Air Off	22,800	29	0.7	70
1.6				
Unrestricted	27,800	29	0.8	70
1.9				

Mud Data: None

Surveys: 3339ft - 26.5 deg Inc, 345.1 deg Az; 3433ft - 26.2 deg Inc, 344.6 deg Az; 3529ft - 26.4 deg Inc, 345.2 deg Az;

Daily Costs (\$):	55,993	Well Costs (\$):	1,620,287
Drilling Days:	23	Completion Days:	0
		Workover Days:	0

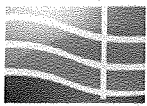
04-Sep-09

Current Depth (ft): 3,901 **Hole Drilled (ft):** 329 **Ave ROP:** 28.0

Current Ops: 00:00 to 06:00 Drilled and surveyed to 4027'.

Operation Summary:

Drilled 10 5/8" hole on air from 3572' to 3604'. (1 hrs)
 Circulated and ran a directional wireline survey at 3529'. (1 hrs)
 Drilled 10 5/8" hole on air from 3604' to 3699'. (3 hrs)



Well Summary Report

Calpine

Well ID: D&V-3

Well Name: DV 3

Field: Geysers

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

Circulated and ran a directional wireline survey at 3624'. While pulling out of the hole with the survey tool it pulled into a tight spot 1000' off bottom and parted the survey line due to unisteam build up in the drill pipe. (1 hrs)

Pulled out of the hole and retrieved the survey tool and cleaned out the unisteam out of the float. (5 hrs)

Installed a new gasket on the rotating head bearing body. (1 hrs)

Serviced the rig. (0.5 hrs)

Made up a new bit # 6 and ran in the hole to 3627'. Installed a new rotating rubber. (4 hrs)

Reamed from 3627' to 3699'. (0.5 hrs)

Drilled 10 5/8" hole on air from 3699' to 3794'. (3.5 hrs)

Circulated and ran a directional wireline survey at 3719'. (1 hrs)

Drilled 10 5/8" hole on air from 3794' to 3901'. (2.5 hrs)

Comments: Drilled 10 5/8" hole on air from 3572' to 3604'. Circulated and ran a directional wireline survey at 3529'. Drilled 10 5/8" hole on air from 3604' to 3699'. Circulated and ran a directional wireline survey at 3624'. While pulling out of the hole with the survey tool it pulled into a tight spot 1000' off bottom and parted the survey line due to unisteam build up in the drill pipe. Pulled out of the hole and retrieved the survey tool and cleaned out the unisteam out of the float. Installed a new gasket on the rotating head bearing body. Serviced the rig. Made up a new bit # 6 and ran in the hole to 3627'. Installed a new rotating rubber. Reamed from 3627' to 3699'. Drilled 10 5/8" hole on air from 3699' to 3794'. Circulated and ran a directional wireline survey at 3719'. Drilled 10 5/8" hole on air from 3794' to 3901'.

Steam (#/hr)	H2S (ppm)	H2S (#/hr)	NH3 (ppm)	NH3 (#/hr)
Restricted Air On	22,800	22	0.5	70
1.6				
Restricted Air Off	22,800	32	0.7	70
1.6				
Unrestricted	27,800	32	0.9	70
1.9				

Mud Data: None

Surveys: 3719ft - 25.8 deg Inc, 345 deg Az; 3846ft - 25.9 deg Inc, 345.4 deg Az; 3972ft - 26.1 deg Inc, 344 deg Az; 4099ft - 25.9 deg Inc, 346.7 deg Az;

Daily Costs (\$): 48,900 **Well Costs (\$):** 1,669,187

Drilling Days: 24 **Completion Days:** 0 **Workover Days:** 0

05-Sep-09

Current Depth (ft): 4,333 **Hole Drilled (ft):** 432 **Ave ROP:** 32.9

Current Ops: 00:00 to 06:00 Pulled out of the hole and changed the bit and BHA configuration. Ran in the hole and reamed 90' to bottom.

Operation Summary:

Drilled 10 5/8" hole on air from 3901' to 3921'. (0.5 hrs)

Circulated and ran a directional wireline survey at 3846'. (1 hrs)

Drilled 10 5/8" hole on air from 3921' to 4047'. (5 hrs)

Circulated and ran a directional wireline survey at 3972'. (1 hrs)

Drilled 10 5/8" hole on air from 4047' to 4174'. (5.5 hrs)

Circulated and ran a directional wireline survey at 4099'. (1 hrs)

Drilled 10 5/8" hole on air from 4174' to 4333'. (6 hrs)

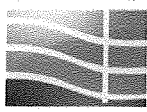
Circulated and ran a directional wireline survey at 4258'. (1 hrs)

Circulated and ran a wet test. (0.5 hrs)

Pulled out of the hole for a new bit and a bottom hole assembly change. (2.5 hrs)

Comments: Circulated and ran a directional wireline survey at 3846'. Circulated and ran a directional wireline survey at 3846'. Drilled 10 5/8" hole on air from 3921' to 4047'. Circulated and ran a directional wireline survey at 3972'. Drilled 10 5/8" hole on air from 4047' to 4174'. Circulated and ran a directional wireline survey at 4099'. Drilled 10 5/8" hole on air from 4174' to 4333'. Circulated and ran a directional wireline survey at 4258'. Circulated and ran a wet test. Pulled out of the hole for a new bit and a bottom hole assembly change.

Steam (#/hr)	H2S (ppm)	H2S (#/hr)	NH3 (ppm)	NH3 (#/hr)
--------------	-----------	------------	-----------	------------



Well Summary Report

Calpine

Well ID: D&V-3

Well Name: DV 3

Field: Geysers

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

Restricted Air on	22,900	19	0.4	70	1.6
Restricted Air off	22,900	32	0.7	70	1.6
Unrestricted	27,800	32	0.9	70	
					1.9

Mud Data: None

Surveys: 4258ft - 25.2 deg Inc, 346.6 deg Az; 4378ft - 25.4 deg Inc, 346.1 deg Az; 4505ft - 24 deg Inc, 347.6 deg Az;

Daily Costs (\$):	49,073	Well Costs (\$):	1,718,260
Drilling Days:	25	Completion Days:	0
		Workover Days:	0

06-Sep-09	Current Depth (ft):	4,770	Hole Drilled (ft):	437	Ave ROP:	25.4
-----------	---------------------	-------	--------------------	-----	----------	------

Current Ops: 00:00 to 06:00 Pulled out of the hole and changed the BHA configuration and ran in the hole and drilled to 4789'.

Operation Summary:

Pulled out of the hole. (1 hrs)
 Changed the bit and ran in the hole to 4286'. (4.5 hrs)
 Reamed from 4286' to 4333'. (0.5 hrs)
 Drilled 10 5/8" hole on air from 4333' to 4453'. (3 hrs)
 Circulated and ran a directional wireline survey at 4378'. (1 hrs)
 Drilled 10 5/8" hole on air from 4453' to 4580'. (3 hrs)
 Circulated and ran a directional wireline survey at 4505'. (1 hrs)
 Drilled 10 5/8" hole on air from 4580' to 4675'. (2.5 hrs)
 Circulated and ran a directional wireline survey at 4600'. (1 hrs)
 Drilled 10 5/8" hole on air from 4675' to 4770'. (2 hrs)
 Circulated and ran a directional wireline survey at 4695'. (1 hrs)
 Pulled out of the hole to change the BHA configuration. (3.5 hrs)

Comments: Pulled out of the hole. Changed the bit and ran in the hole to 4286'. Reamed from 4286' to 4333'. Drilled 10 5/8" hole on air from 4333' to 4453'. Circulated and ran a directional wireline survey at 4378'. Drilled 10 5/8" hole on air from 4453' to 4580'. Circulated and ran a directional wireline survey at 4505'. Drilled 10 5/8" hole on air from 4580' to 4675'. Circulated and ran a directional wireline survey at 4600'. Drilled 10 5/8" hole on air from 4675' to 4770'. Circulated and ran a directional wireline survey at 4695'. Pulled out of the hole to change the BHA configuration.

Steam (#/hr)	H2S (ppm)	H2S (#/hr)	NH3 (ppm)	NH3 (#/hr)	
Restricted Air on	22,900	19	0.4	70	1.6
Restricted Air off	22,900	32	0.7	70	1.6
Unrestricted	27,800	32	0.9	70	
					1.9

Mud Data: None

Surveys: 4600ft - 24.2 deg Inc, 347.2 deg Az;

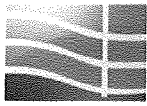
Daily Costs (\$):	34,815	Well Costs (\$):	1,753,075
Drilling Days:	26	Completion Days:	0
		Workover Days:	0

07-Sep-09	Current Depth (ft):	5,010	Hole Drilled (ft):	240	Ave ROP:	41.6
-----------	---------------------	-------	--------------------	-----	----------	------

Current Ops: 0000-0600 Serviced the rig. Made up locked up 10 5/8" drilling assembly and ran in the hole to 4925'. Reamed from 4925' to bottom at 5010'. Started drilling new 10 5/8" hole with air.

Operation Summary:

Finished pulling out of the hole with the locked up 10 5/8" drilling assembly. (1.5 hrs)
 Made up new 10 5/8" building assembly and ran in the hole to 4718'. (3.5 hrs)
 Reamed from 4718' to bottom at 4770'. (1 hrs)



Well Summary Report

Calpine

Well ID: D&V-3

Well Name: DV 3

Field: Geysers

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

Drilled 10 5/8" hole with air from 4770' to 4853'. (1.5 hrs)
 Blew and cleaned the hole. (0.5 hrs)
 Ran directional wireline survey at 4796'. (0.5 hrs)
 Drilled 10 5/8" hole from 4853' to 4948'. (3.5 hrs)
 Blew and cleaned the hole (0.5 hrs)
 Took directional wireline survey at 4891' (0.5 hrs)
 Drilled 10 5/8" hole from 4948' to 5010'. (4 hrs)
 Blew and cleaned the hole. (0.5 hrs)
 Took directional wireline survey at 4953'. (0.5 hrs)
 Pulled out of the hole with building bottom hole assembly. (5 hrs)
 Slipped and cut the drilling line. (1 hrs)

Comments: Finished pulling out of the hole and laid down locked up 10 5/8" drilling assembly. Made up new 10 5/8" building assembly and ran in the hole to 4718'. Reamed from 4718' to bottom at 4770'. Drilled air hole with 10 5/8" building assembly from 4770' to 5010' taking directional wireline surveys every 90'. Blew and cleaned the hole. Pulled out of the hole and laid down the building assembly. Slipped and cut the drilling line.

(#/hr)	Steam (#/hr)	H2S (ppm)	H2S (#/hr)	NH3 (ppm)	NH3
Restricted Air on	22,900	19	0.4	70	1.6
Restricted Air off	22,900	32	0.7	70	1.6
Unrestricted	27,800	32	0.9	70	1.9

Mud Data: None

Surveys: 4695ft - 23.02 deg Inc, 345 deg Az; 4796ft - 23.6 deg Inc, 343.1 deg Az; 4891ft - 27.6 deg Inc, 342.7 deg Az;

Daily Costs (\$):	50,425	Well Costs (\$):	1,803,500
Drilling Days:	27	Completion Days:	0
		Workover Days:	0

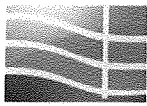
08-Sep-09	Current Depth (ft):	5,503	Hole Drilled (ft):	493	Ave ROP:	26.7
------------------	----------------------------	-------	---------------------------	-----	-----------------	------

Current Ops: 0000-0600 Drilled 10 5/8" hole with air from 5503' to 5662'.

Operation Summary:

Serviced the rig. (0.5 hrs)
 Made up locked up 10 5/8" drilling assembly and ran in the hole to 4925'. (4 hrs)
 Reamed from 4925' to 5010'. (1 hrs)
 Drilled 10 5/8" hole with air from 5010' to 5123'. (3.5 hrs)
 Blew and cleaned the hole. (0.5 hrs)
 Ran directional wireline survey at 5048'. (0.5 hrs)
 Drilled 10 5/8" hole from 5123' to 5218'. (2.5 hrs)
 Blew and cleaned the hole. (0.5 hrs)
 Took directional wireline survey at 5143'. (0.5 hrs)
 Drilled 10 5/8" hole from 5218' to 5345'. (3 hrs)
 Blew and cleaned the hole. (0.5 hrs)
 Took directional wireline survey at 5270'. (0.5 hrs)
 Drilled 10 5/8" hole from 5345' to 5503'. (5.5 hrs)
 Blew and cleaned the hole. (0.5 hrs)
 Took directional wireline survey at 5421'. (0.5 hrs)

Comments: Serviced the rig. Made up locked up 10 5/8" drilling assembly and ran in the hole to 4925'. Reamed from 4925' to bottom at 5010'. Drilled 10 5/8" hole with air from 5010' to 5503' taking directional wireline surveys every 90' to 150'.



Well Summary Report

Calpine

Well ID: D&V-3

Well Name: DV 3

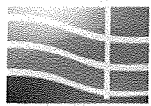
Field: Geysers

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

	(#/hr)	Steam (#/hr)	H2S (ppm)	H2S (#/hr)	NH3 (ppm)	NH3
Restricted Air on		22,900	19	0.4	70	1.6
Restricted Air off		22,900	32	0.7	70	1.6
Unrestricted		27,800	32	0.9	70	1.9
Mud Data:	None					
Surveys:	4970ft - 29.9 deg Inc, 341.2 deg Az; 5048ft - 31.4 deg Inc, 344.1 deg Az; 5143ft - 30.5 deg Inc, 348.6 deg Az; 5270ft - 30.2 deg Inc, 341.9 deg Az;					
Daily Costs (\$):	44,340	Well Costs (\$):		1,847,840		
Drilling Days:	28	Completion Days:		0	Workover Days: 0	

09-Sep-09	Current Depth (ft):	5,878	Hole Drilled (ft):	375	Ave ROP:	34.0
	Current Ops:	0000-0600 Gathered and pictured new bottom hole assembly. Changed out failed bearing body on the rotating head. Made up and ran in the hole with drilling assembly and used 10 5/8" bit..				
	Operation Summary:	<p>Drilled 10 5/8" hole with air from 5503' to 5662'. (6 hrs)</p> <p>Blew and cleaned the hole. (0.5 hrs)</p> <p>Ran directional wireline survey at 5580'. (0.5 hrs)</p> <p>Drilled 10 5/8" hole from 5662' to 5820' (5 hrs)</p> <p>Blew and cleaned the hole. (0.5 hrs)</p> <p>Took directional wireline survey at 5745'. (0.5 hrs)</p> <p>Drilled 10 5/8" hole from 5820' to 5878'. Started seeing excessive torque. (2 hrs)</p> <p>Blew and cleaned the hole and did a wet test. (1 hrs)</p> <p>Pulled out of hole laying down under cut and slick drill pipe. (5 hrs)</p> <p>Pulled out of the hole with the rest of the drill string and stood back in the (3 hrs)</p>				
	Comments:	Drilled 10 5/8" hole with air and locked up drilling assembly from 5503' to 5878' taking directional wireline surveys every 150', bit locked up. Pulled out of the hole laying down 60 joints of undercut and slick drill pipe. Finish pulling out of the hole and standing the rest of the drill string back in the derrick.				
		Steam (#/hr)	H2S (ppm)	H2S (#/hr)	NH3 (ppm)	NH3 (#/hr)
	Restricted Air on	22,900	19	0.4	70	1.6
	Restricted Air off	22,900	32	0.7	70	1.6
	Unrestricted	27,800	32	0.9	70	1.9
	Mud Data:	None				
	Surveys:	5421ft - 30 deg Inc, 342.4 deg Az;				
	Daily Costs (\$):	39,140	Well Costs (\$):		1,886,980	
	Drilling Days:	29	Completion Days:		0	Workover Days: 0

10-Sep-09	Current Depth (ft):	5,878	Hole Drilled (ft):		Ave ROP:	28.8
	Current Ops:	0000-0600 Finished inspecting the bottom hole assembly. Made up new 10 5/8" bit and ran in the hole with bottom hole assembly. Installed rotating rubber.				
	Operation Summary:	<p>Gathered and measured the bottom hole assembly. (0.5 hrs)</p> <p>Changed out rotating head bearing body. (2 hrs)</p> <p>Laid down 2 slick 8" drill collars, picked up replacement drill collars made up the bottom hole assembly with a used bit. (3.5 hrs)</p> <p>Installed rotating rubber. (0.5 hrs)</p>				



Well Summary Report

Calpine

Well ID: D&V-3

Well Name: DV 3

Field: Geysers

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

Ran in the hole to 1500', pulled out of the hole laying down under cut drill pipe. (3.5 hrs)
 Shut down rig operation to X-ray the well head. (4 hrs)
 Continued to work drill pipe out of the derrick and lay down undercut and slick drill pipe. (Laid down a total of 132 joints) (2 hrs)
 Picked up 20# G-105 to replace drill pipe laid down. (4 hrs)
 Pulled out of the hole to the bottom hole assembly. (1 hrs)
 Inspected the bottom hole assembly. (3 hrs)

Comments: Changed out bearing body on the rotating head. Ran in the hole to 1500'. Pulled out of the hole laying down undercut and slick drill pipe. Shut down rig operations to X-ray the wellhead, (4 hours). Continue to work pipe out of the derrick and lay down undercut and slick drill pipe. (Laid down a total of 132 joints). Picked up 60 joints of 20 # G105 drill pipe and stood back in the derrick. Inspected the bottom hole assembly.

Mud Data: None

Surveys: None

Daily Costs (\$):	53,601	Well Costs (\$):	1,940,581
Drilling Days:	30	Completion Days:	0
		Workover Days:	0

11-Sep-09

Current Depth (ft):	6,022	Hole Drilled (ft):	144	Ave ROP:	
----------------------------	-------	---------------------------	-----	-----------------	--

Current Ops: 0000-0600 Drilled 10 5/8" hole with air from 6022' to 6149'.

Operation Summary:

Finished inspecting the bottom hole assembly. (3 hrs)
 Serviced the rig. (0.5 hrs)
 Made up new 10 5/8" bit and bottom hole assembly changing out drilling jars. (1.5 hrs)
 Installed rotating head rubber. (0.5 hrs)
 Ran in the hole to the window at 1800' with drill pipe out of the derrick. (1 hrs)
 Continue in the hole picking up 22.82# G-105 tagging up at 5612'. (6 hrs)
 Reamed 10 5/8" hole with air from 5612' to bottom at 5878'. (5 hrs)
 Drilled 10 5/8" hole with air from 5878' to 5990'. (4.5 hrs)
 Blew and cleaned the hole. (0.5 hrs)
 Ran directional wireline survey at 5925'. (0.5 hrs)
 Continued to drill 10 5/8" hole from 5990' to 6022'. (1 hrs)

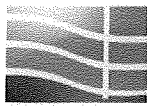
Comments: Finished inspecting the bottom hole assembly. Made up new 10 5/8" bit and ran in the hole with slight building bottom hole assembly. Installed rotating rubber and ran in the hole with drill pipe out of the derrick. Continued running in the hole picking up 22.82# G-109 drill pipe tagging up at 5612'. Reamed 10 5/8" hole with air from 5612' to bottom at 5878'. Drilled 10 5/8" hole with air from 5878' to 6022'. Took a directional wireline survey at 5925'.

	Steam (#/hr)	H2S (ppm)	H2S (#/hr)	NH3 (ppm)	NH3
(#/hr)					
Restricted Air on	22,900	19	0.39	70	
1.4					
Restricted Air off	22,900	32	0.65	70	
1.4					
Unrestricted	27,800	32	0.79	70	
1.7					

Mud Data: None

Surveys: 5580ft - 28.7 deg Inc, 343 deg Az; 5745ft - 27.7 deg Inc, 338.4 deg Az; 5925ft - 28.1 deg Inc, 338.2 deg Az; 6084ft - 30.2 deg Inc, 334.4 deg Az;

Daily Costs (\$):	69,943	Well Costs (\$):	2,010,524
Drilling Days:	31	Completion Days:	0
		Workover Days:	0



Well Summary Report

Calpine

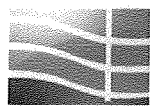
Well ID: D&V-3

Well Name: DV 3

Field: Geysers

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

12-Sep-09	Current Depth (ft): 6,358	Hole Drilled (ft): 336	Ave ROP: 26.2																								
Current Ops: 0000-0600 Pulled out of the hole laying down 65 joints of slick or undercut drill pipe.																											
Operation Summary:																											
Drilled 10 5/8" hole with air from 6022 to 6149'. (6 hrs)																											
Blew and cleaned the hole. (0.5 hrs)																											
Took directional wireline survey at 6210'. (0.5 hrs)																											
Drilled 10 5/8" hole from 6149' to 6275'. (8.5 hrs)																											
Blew and cleaned the hole. (0.5 hrs)																											
Took directional wireline survey at 6210'. (0.5 hrs)																											
Drilled 10 5/8" hole from 6275' to 6358' (5.5 hrs)																											
Blew and cleaned the hole and did a wet test. (1 hrs)																											
Took directional wireline survey at 6308'. (0.5 hrs)																											
Pulled out of the hole. (0.5 hrs)																											
Comments: Drilled 10 5/8" hole with air taking surveys every 90' to 120' from 6022' to 6668'. Blew the hole and did a wet test. Pulled out of the hole.																											
<table border="1"> <thead> <tr> <th></th> <th>Steam (#/hr)</th> <th>H2S (ppm)</th> <th>H2S (#/hr)</th> <th>NH3 (ppm)</th> <th>NH3 (#/hr)</th> </tr> </thead> <tbody> <tr> <td>Restricted Air on</td> <td>1.6</td> <td>23,200</td> <td>20</td> <td>0.46</td> <td>70</td> </tr> <tr> <td>Restricted Air off</td> <td>1.6</td> <td>23,200</td> <td>32</td> <td>0.74</td> <td>70</td> </tr> <tr> <td>Unrestricted</td> <td>1.5</td> <td>28,300</td> <td>32</td> <td>0.91</td> <td>70</td> </tr> </tbody> </table>					Steam (#/hr)	H2S (ppm)	H2S (#/hr)	NH3 (ppm)	NH3 (#/hr)	Restricted Air on	1.6	23,200	20	0.46	70	Restricted Air off	1.6	23,200	32	0.74	70	Unrestricted	1.5	28,300	32	0.91	70
	Steam (#/hr)	H2S (ppm)	H2S (#/hr)	NH3 (ppm)	NH3 (#/hr)																						
Restricted Air on	1.6	23,200	20	0.46	70																						
Restricted Air off	1.6	23,200	32	0.74	70																						
Unrestricted	1.5	28,300	32	0.91	70																						
Mud Data: None																											
Surveys: None																											
Daily Costs (\$): 37,149 Well Costs (\$): 2,047,673																											
Drilling Days: 32 Completion Days: 0 Workover Days: 0																											
13-Sep-09	Current Depth (ft): 6,358	Hole Drilled (ft):	Ave ROP: 16.8																								
Current Ops: 0000-0600 Continued to pick up drill pipe from 5605 to 6111'. Reamed 10 5/8" hole with air from 6111' to bottom at 6358'.																											
Operation Summary:																											
Pulled out of the hole laying down 71 joints of slick and undercut drill pipe. Handled and broke down bottom hole assembly. (8 hrs)																											
Slipped and cut the drilling line. (2 hrs)																											
Closed the master valve and changed out 4 1/2" steel pipe rams for 8 5/8" casing rams. (3 hrs)																											
Opened well back up. Laid down six slick 8" drill collar. (3 hrs)																											
Made up new 10 5/8" bit and bottom hole assembly and ran in the hole to the window at 1800'. (5 hrs)																											
Blew and cleared the drill string. (0.5 hrs)																											
Ran in the hole to 4140'. (1 hrs)																											
Continued on in the hole picking up replacement drill pipe for slick and undercut drill pipe laid down. (1.5 hrs)																											
Comments: Pulled out of the hole laying down 71 joints of slick or undercut drill pipe and broke down bottom hole assembly. Slipped and cut the drilling line. Shut the well in and changed out 4 1/2" steel pipe rams for 8 5/8" casing rams. Open well back up and ran in the hole and laid down 6 slick 8" drill collars. Made up new 10 5/8" bit and bottom hole assembly and ran in the hole to window at 1800'. Blew and cleared the drill string. Continued in the hole to 4136' with drill pipe out of the derrick. Continued in the hole picking up replacement drill pipe off the pipe rack to 5605', (needed 71 joints to get to bottom).																											



Well Summary Report

Calpine

Well ID: D&V-3

Well Name: DV 3

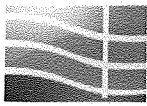
Field: Geysers

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

	(#/hr)	Steam (#/hr)	H2S (ppm)	H2S (#/hr)	NH3 (ppm)	NH3
Restricted Air on 1.6		23,200	20	0.46	70	
Restricted Air off 1.6		23,200	32	0.74	70	
Unrestricted 1.5		28,300	32	0.91	70	
Mud Data:	None					
Surveys:	None					
Daily Costs (\$):	57,089	Well Costs (\$):		2,104,762		
Drilling Days:	33	Completion Days:	0	Workover Days:	0	

14-Sep-09	Current Depth (ft):	6,754	Hole Drilled (ft):	396	Ave ROP:	
	Current Ops:	0000-0600 Drilled 10 5/8" hole with air from 6754' to 6860', taking a directional wireline survey at 6755'.				
	Operation Summary:	Continued on in the hole picking up drill pipe tagging up at 6111'. (1 hrs) Reamed 10 5/8" hole with air from 6111' to bottom at 6358'. (5 hrs) Drilled 10 5/8" hole with air from 6358' to 6469'. (4.5 hrs) Blew and cleaned the hole. (0.5 hrs) Took directional wireline survey at 6404'. (0.5 hrs) Drilled 10 5/8" hole from 6469' to 6627'. (6 hrs) Blew and cleaned the hole. (0.5 hrs) Took directional wireline survey at 6562'. (0.5 hrs) Drilled 10 5/8" hole from 6627' to 6754' (5.5 hrs)				
	Comments:	Continued to pick up drill pipe from 5605 to 6111'. Reamed 10 5/8" hole with air from 6111' to bottom at 6358'. Drilled 10 5/8" hole with air from 6358' to 6754' taking directional wireline surveys every 150'.				
		Steam (#/hr)	H2S (ppm)	H2S (#/hr)	NH3 (ppm)	NH3
		(#/hr)				
	Restricted Air on 1.6	23,200	20	0.46	70	
	Restricted Air off 1.6	23,200	32	0.74	70	
	Unrestricted 1.5	28,300	32	0.91	70	
	Mud Data:	None				
	Surveys:	6210ft - 32.2 deg Inc, 339.4 deg Az; 6308ft - 33.4 deg Inc, 338.1 deg Az; 6404ft - 33.6 deg Inc, 333.9 deg Az; 6755ft - 37 deg Inc, 341.5 deg Az;				
	Daily Costs (\$):	58,613	Well Costs (\$):		2,163,375	
	Drilling Days:	34	Completion Days:	0	Workover Days:	0

15-Sep-09	Current Depth (ft):	6,902	Hole Drilled (ft):	148	Ave ROP:	24.8
	Current Ops:	00:00 to 06:00 Ran in the hole to 6812' and reamed to bottom. Drilled from 6902' to 6974'.				
	Operation Summary:	Drilled 10 5/8" hole with air from 6754' to 6817'. (3 hrs) Circulated and ran a directional survey at 6755'. (1 hrs)				



Well Summary Report

Calpine

Well ID: D&V-3

Well Name: DV 3

Field: Geysers

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

Drilled 10 5/8" hole with air from 6817' to 6902'. 22# pressure increase from 6896' to 6899' and 28 degree temp. increase. (4 hrs)
 Circulated and ran a wet test = 59,800 # per hour. (1 hrs)
 Pulled out of the hole to the shoe. (3 hrs)
 Circulated and ran a wet test. (1 hrs)
 Pulled out of the hole. (3 hrs)
 Changed out drill pipe ram rubbers. (3 hrs)
 Made up bit # 11 and ran in the hole. (5 hrs)

Comments: Drilled 10 5/8" hole with air from 6754' to 6817'. Circulated and ran a directional survey at 6755'. Drilled 10 5/8" hole with air from 6817' to 6902'. 22# pressure increase from 6896' to 6899' and 28 degree temp. increase. Circulated and ran a wet test = 59,800 # per hour. Pulled out of the hole to the shoe. Circulated and ran a wet test. Pulled out of the hole. Changed out drill pipe ram rubbers. Made up bit # 11 and ran in the hole.

	Steam (#/hr)	H2S (ppm)	H2S (#/hr)	NH3 (ppm)	NH3 (#/hr)
Restricted Air on	49,100	12	0.59	70	3.4
Restricted Air off	49,100	32	1.57	70	3.4
Unrestricted	59,800	32	1.91	70	4.2

Mud Data: None

Surveys: None

Daily Costs (\$):	74,357	Well Costs (\$):	2,237,732
Drilling Days:	35	Completion Days:	0
		Workover Days:	0

16-Sep-09

Current Depth (ft): 7,000 **Hole Drilled (ft):** 98 **Ave ROP:** 21.1

Current Ops: 00:00 to 06:00 Made up setting collar and stood back in the derrick. Riggged up casing crew and started running the hot liner.

Operation Summary:

Ran in the hole to 6812'. (0.5 hrs)
 Reamed from 6812' to 6902'. (1.5 hrs)
 Drilled 10 5/8" hole with air from 6902' to TD at 7000'. (6 hrs)
 Circulated and ran a wet test and surveyed at 6935'. The survey tool came unscrewed and was left in the drill collars. (1 hrs)
 Wiped the hole from 7000' to the window at 1779'. (7 hrs)
 Pulled out of the hole to run the casing liner. Retrieved the survey tool. (7 hrs)
 Cleared the floor of drilling tools and held a tailboard on running casing. (1 hrs)

Comments: Ran in the hole to 6812'. Reamed from 6812' to 6902'. Drilled 10 5/8" hole with air from 6902' to TD at 7000'. Circulated and ran a wet test and surveyed at 6935'. The survey tool came unscrewed and was left in the drill collars. Wiped the hole from 7000' to the window at 1779'. Pulled out of the hole to run the casing liner. Retrieved the survey tool. Cleared the floor of drilling tools and held a tailboard on running casing.

	Steam (#/hr)	H2S (ppm)	H2S (#/hr)	NH3 (ppm)	NH3 (#/hr)
Restricted Air on	48,600	13	0.63	50	2.4
Restricted Air off	48,600	16	0.78	50	2.4
Unrestricted	59,200	16	0.95	50	3.0

Mud Data: None

Surveys: 7000ft - 37 deg Inc, 341.5 deg Az;

Daily Costs (\$):	60,516	Well Costs (\$):	2,298,248
Drilling Days:	36	Completion Days:	0
		Workover Days:	0



Well Summary Report

Calpine

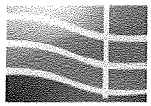
Well ID: D&V-3

Well Name: DV 3

Field: Geysers

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

17-Sep-09	Current Depth (ft):	7,000	Hole Drilled (ft):		Ave ROP:	16.3
Current Ops: 00:00 to 06:00 Killed the well and started laying down drill pipe.						
Operation Summary:						
Made up the setting collar and stood back in the derrick. (1 hrs)						
Held a safety tailboard on running casing. (0.5 hrs)						
Rigged up to run the casing. (2.5 hrs)						
Ran 144 joints of 8 5/8" slotted liner live. (15 hrs)						
Ran in the hole with the casing on drill pipe to 7000' and released from the setting collar at 1595'. (1.5 hrs)						
Attempted to kill the well but it would not die. (1 hrs)						
Pulled out of the hole and laid down the setting collar tools. (1.5 hrs)						
Shut in the well and started killing the well. (1 hrs)						
Comments: Made up the setting collar and stood back in the derrick. Held a safety tailboard on running casing. Rigged up to run the casing. Ran 144 joints of 8 5/8" slotted liner live. Ran in the hole with the casing on drill pipe to 7000' and released from the setting collar at 1595'. Attempted to kill the well but it would not die. Pulled out of the hole and laid down the setting collar tools. Shut in the well and started killing the well.						
Mud Data: None						
Surveys: None						
Daily Costs (\$):		77,874	Well Costs (\$):		2,376,122	
Drilling Days:		37	Completion Days:		0	Workover Days: 0
18-Sep-09	Current Depth (ft):	7,000	Hole Drilled (ft):		Ave ROP:	
Current Ops: 00:00 to 06:00 Nipple down the BOP and Blooie line and installed the casing hanger spool and new injection valve. Started nipping up the BOP.						
Operation Summary:						
Killed the well. Made up the BHA and installed the rotating rubber. (3 hrs)						
Laid down the drill pipe and drill collars out of the derrick while keeping the well dead pumping 365 GPM. Tagged the top of the 8 5/8" liner at 1612'. (20.5 hrs)						
Nipple down the BOP to install the casing hanger spool. (0.5 hrs)						
Comments: Killed the well. Made up the BHA and installed the rotating rubber. Laid down the drill pipe and drill collars out of the derrick while keeping the well dead pumping 365 GPM. Tagged the top of the 8 5/8" liner at 1612'. Nipple down the BOP to install the casing hanger spool.						
Mud Data: None						
Surveys: None						
Daily Costs (\$):		346,989	Well Costs (\$):		2,723,111	
Drilling Days:		38	Completion Days:		0	Workover Days: 0
19-Sep-09	Current Depth (ft):	7,000	Hole Drilled (ft):		Ave ROP:	
Current Ops: 00:00 to 06:00 Nipped down the BOP and cleaned the mud pits.						
Operation Summary:						
Nipped down the BOP and installed the DSA, Casing hanger spool, Master valve and wing valves.						
Nipped back up the BOP and changed the 8 5/8" csg. rams to 7" csg. rams. (14 hrs)						
Ran 1609' of 7" casing and hung in the hanger spool at 28' stabbed into the 8 5/8" liner 24'. Closed in the well. (4 hrs)						
Nipped down the BOP. (6 hrs)						
Comments: Nipped down the BOP and installed the DSA, Casing hanger spool, Master valve and wing valves. Nipped back up the BOP and changed the 8 5/8" csg. rams to 7" csg. rams. Ran 1609' of 7" casing and hung in the hanger spool at 28' stabbed into the 8 5/8" liner 24'. Closed in the well. Nipped down the BOP.						
Mud Data: None						



Well Summary Report

Calpine

Well ID: D&V-3

Well Name: DV 3

Field: Geysers

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

	Surveys: None			
	Daily Costs (\$): 154,849	Well Costs (\$): 2,877,960		
	Drilling Days: 39	Completion Days: 0	Workover Days: 0	
20-Sep-09	Current Depth (ft): 7,000	Hole Drilled (ft):	Ave ROP:	
	Current Ops: Final report			
	Operation Summary: Nipped down BOP and cleaned pits. Rig released at 10:00 am. (10 hrs)			
	Comments: Nipped down BOP and cleaned pits. Rig released at 10:00 am.			
	Mud Data: None			
	Surveys: None			
	Daily Costs (\$): 104,026	Well Costs (\$): 2,981,986		
	Drilling Days: 40	Completion Days: 0	Workover Days: 0	