



Santa Rosa, CA

COMPANY Calpine Corporation
 WELL GDC 72-30 DPN
 FIELD Geysers
 COUNTY/STATE Sonoma County California
 WELL HEAD COORDINATES
 1778240, 407292
 ELEVATION 2237', KB=24'
 RIG ON DAY RATE 11/25/2009
 TD DATE 12/3/2009
 TOTAL DEPTH 7850'
 TRUE VERTICAL DEPTH 7638'
 TD LOCATION 1097.3' N, 693.2' E of wellhead
 CONTRACTOR/RIG Kenai Rig #6
 COMPANY REPRESENTATIVE Gamble, Fulcher

HOLE		CASING	
8.75	TO	20	FROM 0 TO 315
8.5	TO	10.75	FROM 0 TO 1256
		13.375	FROM 0 TO 1490
		9.625	FROM 1256 TO 3327
		7	FROM 0 TO 7850
			FROM TO

ABBREVIATIONS		SYMBOLS	
NB New Bit	BHT Bottom Hole Temp	Wireline Log	Casing Shoe
RRB Re-run Bit	C Carbide Test	Steam/Water Entry	Flow Test
CB Core Bit	NR No Returns	Deviation Survey	Cored Interval
WOB Weight On Bit	LAT Logged After Trip		No Recovery
SPM Strokes per Minute	CFM Cubic Feet per Min		
PP Pump Pressure	BUT Bottoms Up Temp		
RPM Revolutions per Min			

LITHOLOGY	
Argillite	Argillaceous Graywacke
Chert	Volcanic Graywacke
Phyllite	Siliceous Graywacke
Greenstone	Weak Foliation
Serpentine	Strong Foliation
Blueschist	Marginal Alteration
Felsite	Pervasive Alteration
Rhyolite	Weakly Hornfelsic
Clay	Strongly Hornfelsic
Lithic Graywacke	

REMARKS
 All depths from Kelly Bushing. KB=24'
 JW = Joe Whearty
 JF = Jeremy Feinberg
 AS = Andrew Schepflin

SECONDARY MINERALS	
Q = Quartz	Rare << 1%
C = Calcite	Trace < 1%
P = Pyrite	Minor 1% to 4%
E = Epidote	Common 4% to 7%
R = Pyrrhotite	Abundant 7% to 10%
Ch = Chlorite	> 10%
X = Actinote	
A = Actinolite	
T = Tourmaline	

LOG INTERVAL	
DATE LOGGED	11/28/09 TO 12/3/09
DEPTH LOGGED	6766' TO 7850'
MUD DRILLING	N/A TO
AIR DRILLING	6766' TO 7850'
LOG SCALE	1:600 UNIT NO. C21
LOGGING GEOLOGISTS	Whearty, Feinberg, Schepflin

Tecton Geologic GDC 72-30 DPN Scale 1: 600

