Tectron Geologic

COMPANY	Calpine Corporation
WELL NAME	Pratt 5-371
FIELD	The Geysers
COUNTY	Sonoma
STATE	California
WELL DESCRIPTION	DOMESTIC
LOCATION	1320' FSL and 1320' FEL of Sec. 30, T12N, T09W
	R11-12E,T & R, 2-5N,12E,13
LATITUDE	2310' FSL, 49 EE
LONGITUDE	
SPUD DATE	8/15/2011
TOTAL DEPTH	10390'
TOTAL DRILLING DEPTH	10014'
ELEVATION	891 ft. (TT) 14' KelBush
DRILLING CONTRACTOR	Thermascan/ Big RIGB
COMPANY REPRESENTATIVES	Steve Gamble
	Jim Ryan
	LOG INTERVAL
DATE ENTERED	8/29/11 to 8/31/11
DATE PRINTED	9/1/11 to 9/1/11
DRILLING MEDIUM	12¼" to 10'
AIR VOLUME	1110' to 10390'
LOW FLOW	10390'
LOST CIRCULATION	1110'
LOGGING GEOLOGISTS	
Frank Wagner (MS),Nick Stanley (MS),Charley Wolf(CSU),Patrick Broderick (PS), Andrew Schopfer (PS)	

HOLE

20"	to	280'	
20.5"	to	1110'	
16.75"	to	6223'	
12¼"	to	10390'	

CASING

13"	nom	0.375"	280'
13"	nom	0.375"	1108'
11.25"	nom	0.375"	6223'
8.625	nom	0.352	5000'
7"	nom	0.500	10390'

ABBREVIATIONS

Vert. Fr.	Vertical Fracture	Sulf	Sulfide Sulfur Today
Horizon Bd	Horizontal Bedding	C	Carbide Tool
Core Bd	Core Bedding	Ho	Hot Rolling
Wt	Weight on Bit	Lg	Logged After Trip
Rpm	Revolutions per Min	Ch	Circulation Hours
P	Pump Pressure	Ad	Activities Up Today
Rpm	Revolutions per Min		

LITHOLOGY

	Argillite		Siliceous Graywacke
	Chert		Metamorphic Ultramafic
	Siltstone		Mesa Felsitum
	Graywacke		Strong Foliation
	Serpentine		Marginal Alteration
	Diamictite		Pervasive Alteration
	Felsite		Weakly Metamorphic
	Clay		Strongly Metamorphic
	Lithic Graywacke		
	Argillaceous Graywacke		

DIAGRAMS

20 depths from drilling logs 09-07

STEAM ENTRIES

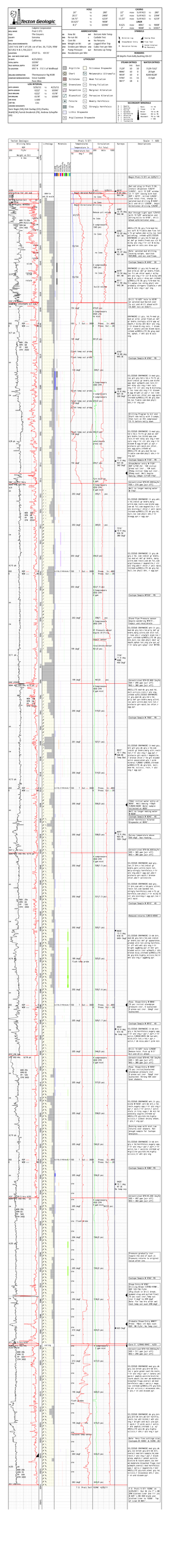
5500'	10	7129-7142
6500'	10	8127-8137
9500'	10	8994-9010
9782'	15	11 Sqft
9870'	10	1

WATER ENTRIES

1110'	10	1110-1142
1500'	10	1500-1510
2500'	10	2494-2510
		11 Sqft

DOCUMENT MEDIUMS

1 - Paper
2 - Mylar
3 - Sepia
4 - Blueline
5 - Diazo
6 - Photo
7 - Digital
8 - Tape
9 - Transparency


Tectron Geologic
Pratt 5-371
Scale 1 : 600
Drilling Data
Lithology
Minerals
Temperature
Circulation
Surveys
Descriptions
Weight on Bit
Rpm
Pump Pressure
Gas Units
Total Gas
Methane
Ethane
Propane
Butane
Pentane
Hexane
Heptane
Octane
Nonane
Decane
Hydrogen Sulfide
Carbon Dioxide
Helium
Nitrogen
Oxygen
Argon
Hydrogen
Carbon Monoxide
Helium
Neon
Argon
Krypton
Xenon
Nitrogen
Oxygen
Carbon Monoxide
Carbon Dioxide
Hydrogen Sulfide
Sulfur Dioxide
Nitrogen Dioxide
Ammonia
Hydrogen Cyanide
Hydrogen Chloride
Hydrogen Fluoride
Hydrogen Bromide
Hydrogen Iodide
Hydrogen Sulfide
Carbon Dioxide
Sulfur Dioxide
Carbonyl Sulfide
Carbon Disulfide
Methyl Mercaptan
Ethyl Mercaptan
Dimethyl Sulfide
Methyl Ethyl Sulfide
Diethyl Sulfide
Dimethyl Disulfide
Methyl Ethyl Disulfide
Diethyl Disulfide
Thiophene
Tetrahydrothiophene
Methane
Ethane
Propane
Butane
Pentane
Hexane
Heptane
Octane
Nonane
Decane
Hydrogen
Carbon Monoxide
Carbon Dioxide
Oxygen
Argon
Nitrogen
Helium
Neon
Krypton
Xenon