



# Directional Survey Report

Well ID: CA 1862-13 CTI

Field: Geysers

**Calpine Corp**

Well Name: CA 1862-13

Sect: 29 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			
<b>Well Bore: Original Well Bore</b>				<b>Plane of Vertical Section: 40.15</b>					
** Tieln	4,776.0	16.88	29.5	4,710.0	449.9	379.5	698.3	697.2	
MSS	4,871.0	17.00	27	4,800.9	474.3	392.6	615.7	615.7	0.778
MSS	4,997.0	17.38	26	4,921.3	507.6	409.2	652.0	651.8	0.379
MSS	5,122.0	18.38	25	5,040.2	542.2	425.7	689.4	688.9	0.837
MSS	5,213.0	18.75	24	5,126.5	568.6	437.7	717.6	716.8	0.541
DIGITA	5,475.0	17.90	20.2	5,375.2	644.9	468.7	797.2	795.1	0.559
DIGITA	5,728.0	19.10	14.9	5,615.1	721.4	492.8	873.6	869.1	0.816
DIGITA	5,792.0	17.70	14.9	5,675.9	740.9	498.0	892.7	887.4	2.187
DIGITA	5,861.0	18.00	13.5	5,741.5	761.4	503.2	912.6	906.4	0.759
DIGITA	6,080.0	17.90	8.3	5,949.9	827.6	515.9	975.2	965.3	0.733
DIGITA	6,266.0	16.70	3.4	6,127.5	882.6	521.7	1,025.2	1,011.0	1.014
DIGITA	6,493.0	16.00	9.8	6,345.3	946.0	528.9	1,083.8	1,064.1	0.851
DIGITA	6,810.0	15.50	6.4	6,650.4	1,031.1	541.1	1,164.4	1,137.0	0.331
DIGITA	7,409.0	16.40	360	7,226.4	1,195.2	550.0	1,315.7	1,268.2	0.330
DIGITA	7,666.0	17.20	352.8	7,472.5	1,269.2	545.2	1,381.4	1,321.7	0.867
DIGITA	7,950.0	17.60	353.4	7,743.5	1,353.5	535.0	1,455.4	1,379.6	0.154
DIGITA	8,204.0	18.90	350.6	7,984.7	1,432.3	523.9	1,525.1	1,432.6	0.617
DIGITA	9,171.0	18.90	350.6	8,899.6	1,741.3	472.7	1,804.3	1,635.8	0.000

Calculations using Minimum Curvature Method