

Geothermal Steam Field - Well Status

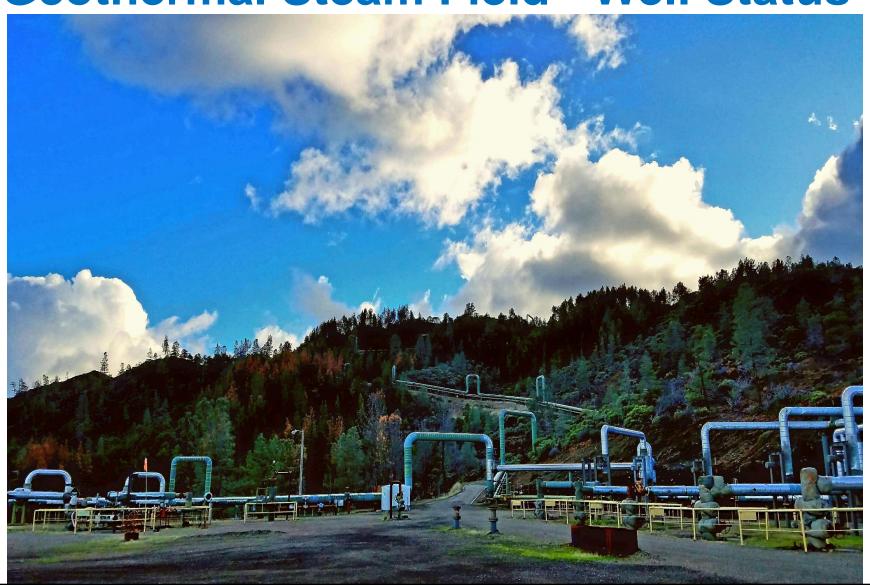
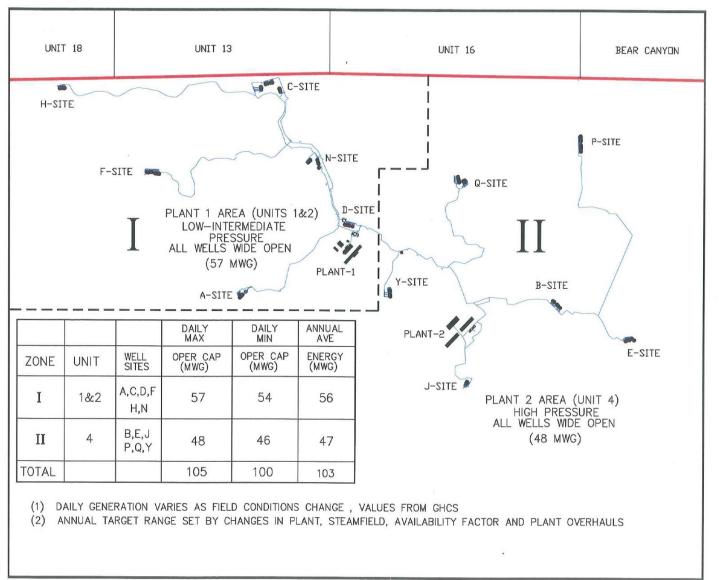




Figure 5. GEOTHERMAL OPERATIONAL PLAN 2016



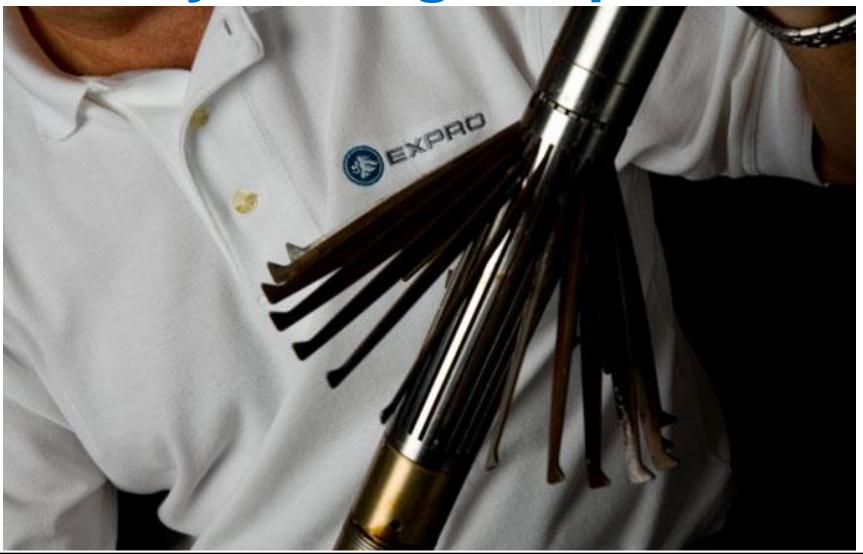


P-Site Well Pad



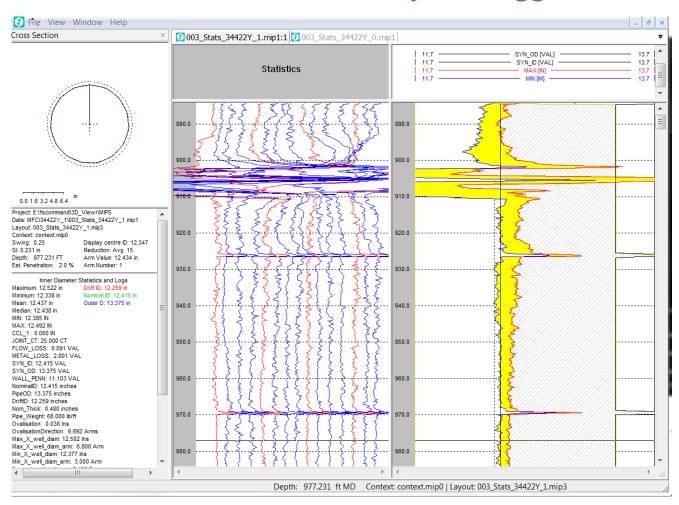


Kinley Casing Caliper Tool



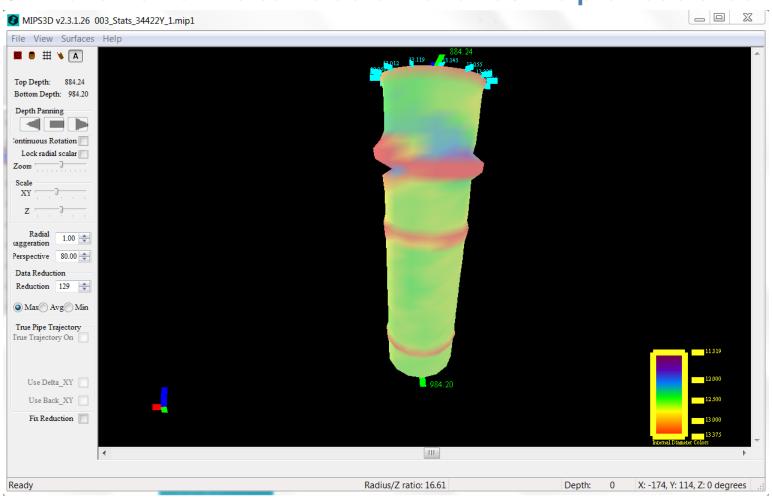


Production Well P- 4, June 2016 Deformation is consistent with every well logged on P-Site





Production Well P-4, June 2016 3D Rendition of the same deformation as the previous slide





P-Site Well Pad





Casing Damage/Repair

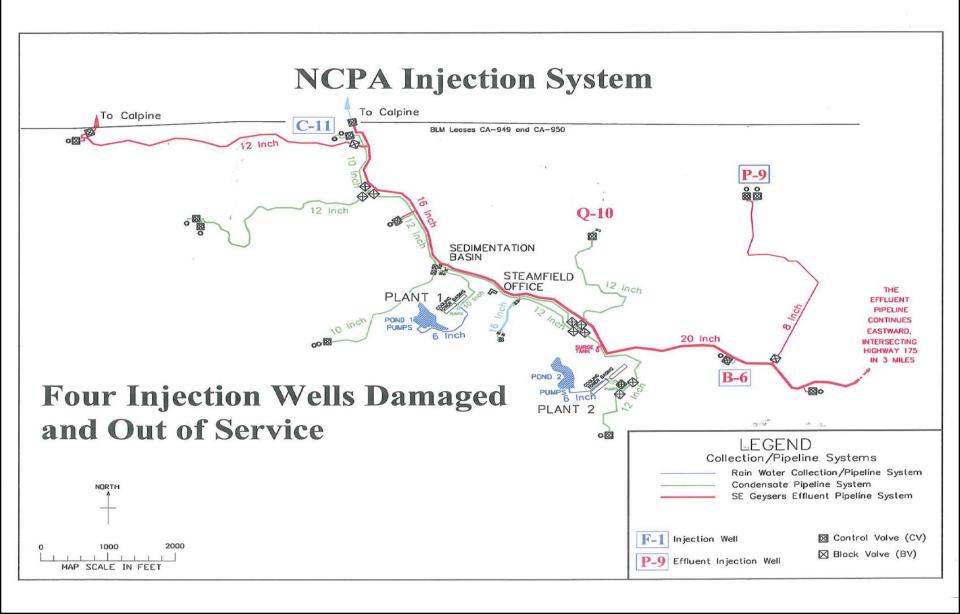
- Well Workovers are problematic.
 - Greater the damage, less probability of success
- Repair methods
 - Swedge or mill casing, then line with new casing
 - Set cement plug, sidetrack and re-drill
- Workover costs range \$2 to \$6 million



Injection System









Maintenance Reserves

Reserve Activity	Beginning Balance	FY 2018	FY 2019
Unit 1 Overhaul			(\$1,300,000)
Unit 2 Overhaul			(\$1,600,000)
Well Workovers	\$3,982,719		(\$3,100,000)
Projected Requirement			(\$6,000,000)
Annual Funding Requirement			\$2,100,000
Balance	\$6,232,719	\$6,232,719	\$2,332,719



Summary

- P-Site Ongoing well deformation ~ 1000 ft.
- Plan to monitor the wells and develop plans to repair if flow becomes inhibited.
- Injection System Four wells are out of service since 2014.
 - Workover existing well, \$2 to \$6 million
 - Drill new "SLR" well, \$1 to \$2 million
- Maintenance Reserve \$6.2 million to cover drilling and overhauls in FY2019