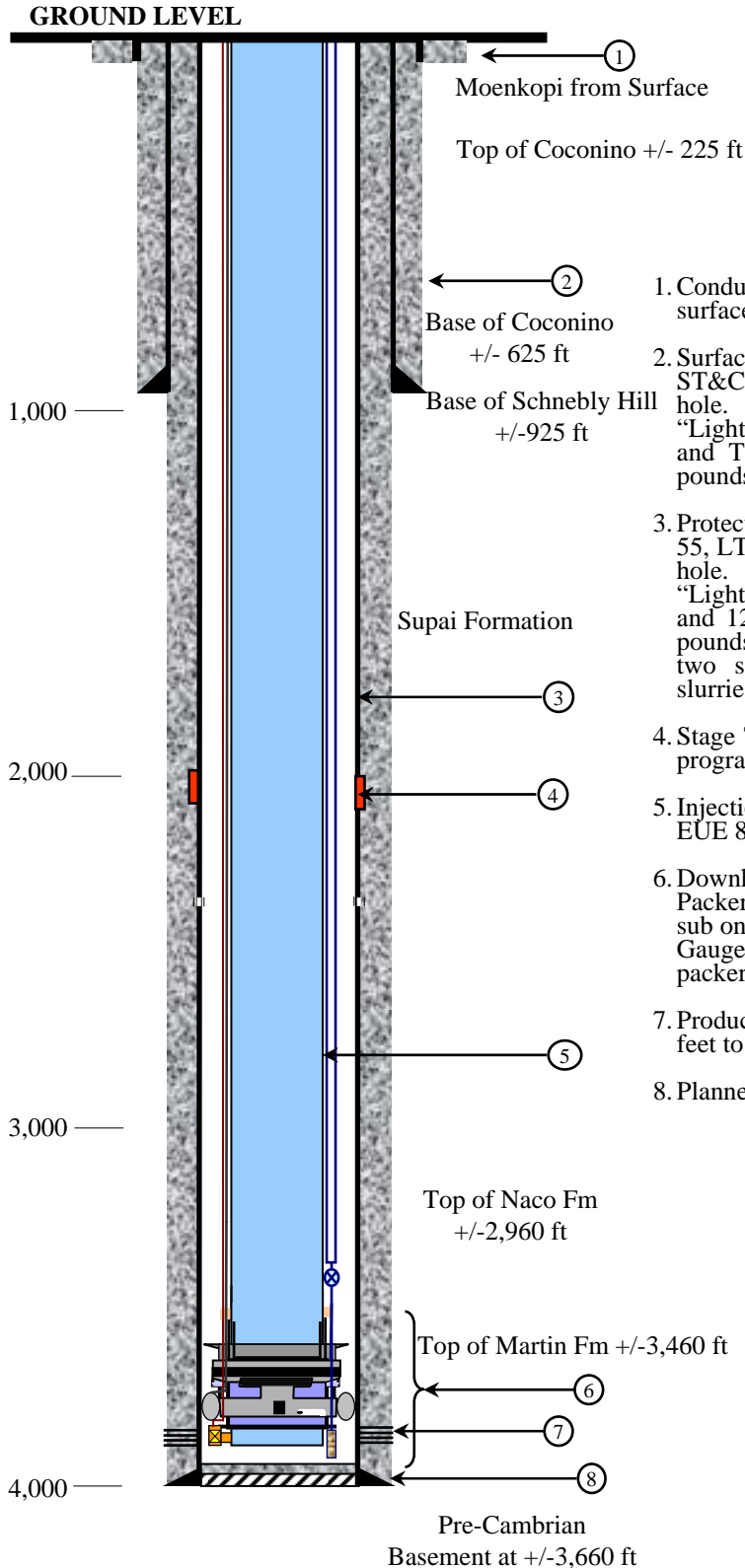


US EPA ARCHIVE DOCUMENT

Arizona Utilities CO₂ Storage Pilot Injection Well

Proposed Completion Well Schematic



All depths reference Rig Kelly Bushing
 Rig Kelly Bushing = 15' above Ground Level
 Ground Level ~ 5,120'

COMPLETION DETAILS

1. Conductor Casing: 13-3/8-inch, 48 pounds per foot, surface to +/-40 feet, grouted to surface
2. Surface Casing: 9-5/8-inch, 36-pounds per foot. J-55, ST&C, Set from surface to +/-965 feet in a 12-1/4-inch hole. Cemented with Lead Slurry of 300 sacks of "Lightweight" cement mixed at ~12.3 pounds per gallon and Tail Slurry of Class "G" cement mixed at ~15.6 pounds per gallon.
3. Protection Casing: 5-1/2-inch 15.50 pounds per foot, J-55, LT&C. Set from surface to 4,000 feet in a 8-1/2-inch hole. Cemented with Lead Slurry of 380 sacks of "Lightweight" Cement mixed at ~11.5 pounds per gallon and 120 sacks of 50-50 Pozmix cement mixed at 13.5 pounds per gallon. Note: The final design may include a two stage cementing program and different cement slurries.
4. Stage Tool. Will only be used if a two-stage cementing program is required.
5. Injection Tubing: 2-3/8-inch, 4.7 pounds per foot, J-55, EUE 8rd. Surface to +/- 3,325 feet
6. Downhole completion consisting of: TAM Inflatable Packer (set at 3,460 feet) and inflate line, w/pass through sub on top of packer; Downhole Pressure & Temperature Gauge and LBL Stainless Steel U-Tube Sampler below packer.
7. Production Perforations: Martin Fm Test Interval: 3,460 feet to 3,660 feet w/ 4 shots per foot, 90 degree phasing.
8. Planned Total Depth; +/-4,000 feet

Notes

The Martin Formation is the Primary Target and the Naco is the Secondary Target

The Supai is expected to contain halite beds below +/-1,200 feet below ground



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Drawn by: djc Date: May 2008 Drawing not to scale