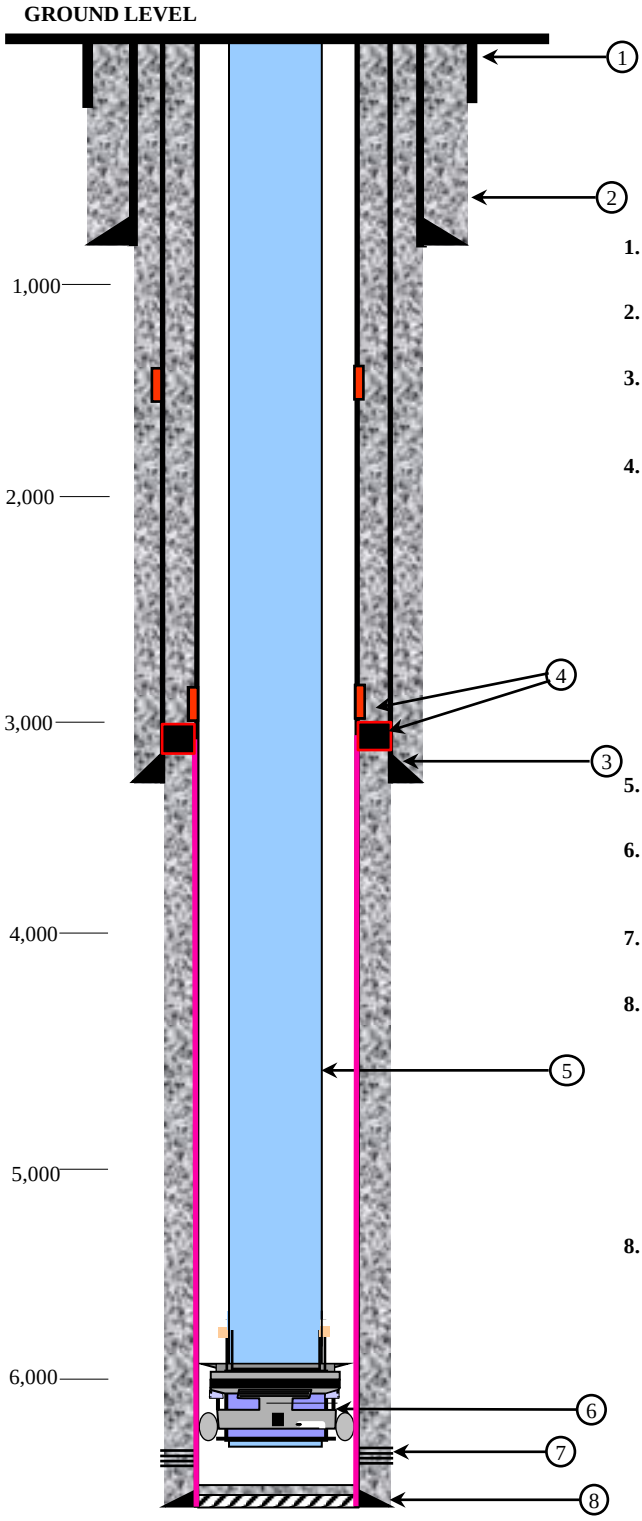
LSB El Dorado Chemical Company – Class VI Well

Permit No. TBD

Proposed Completion Well Schematic

All depths reference Rig Kelly Bushing
Rig Kelly Bushing = 20 above Ground Level
Ground Level ~ 200' (to be determined)



COMPLETION DETAILS

1. **Conductor Casing:** 26-inch surface to +/-100 feet to surface, driven to refusal.

2. **Water String:** 16-inch, 75-pounds per foot, J-55, ST&C or BTC, set from surface to 900 feet in a 20-inch hole. Cemented to surface.

3. **Surface Casing:** 10-3/4-inch, 45.5-pounds per foot, J-55, ST&C or BTC, Set from surface to +/-3,250 feet in a 14-3/4-inch hole. Two stage cement job with DV tool at +/-1,500 feet.

4. **Protection Casing:** 7-inch 26 or 29 pounds per foot, L-80, LT&C from surface to ~2,970 feet, 7-inch stage tool from ~2,970 feet to ~2,975 feet, 7-inch external casing packer from ~2,975 feet to ~2,995 feet, crossover from ~2,995 feet to ~3,003 feet, 7-inch, 26 or 29 pounds per foot, Alloy 2550 or G-3 with premium gas tight connection from ~3,003 feet to 6,350 feet. Set from ~1,000 feet to 6,350 feet in a 9-7/8-inch hole. Two Stage cement job with first stage cement of 888 sx of CO2 resistant cement slurry mixed at 14.8 ppg from 2,975 feet to 6,350 feet. Second stage cement from surface to 2,975 feet with 409 sx Lead Slurry of "Lightweight" Cement mixed at 12.5 pounds per gallon and 81 sx tail cement slurry mixed to 15.6 pounds per gallon. Final cement volumes will be based on the open hole caliper and wellbore conditions.

5. **Stage Tool:** ~2,970 feet and External Casing Packer set from ~2,975 feet to ~2,995 feet.

6. **Injection Tubing:** 4-1/2-inch, 11.6 pounds per foot, 13CR80, premium connection from surface to ~5,500 feet with a seal assembly on bottom.

7. **Completion Packer:** with upper seal bore extension, 25Cr wetted surfaces, set at ~5,500 feet.

8. **Production Perforations:** Cotton Valley perforations, 540 feet w/4 shots per foot, 90-degree phasing:

   - 5,600 to 6,020 feet
   - 6,030 to 6,050 feet
   - 6,060 to 6,075 feet
   - 6,080 to 6,090 feet
   - 6,120 to 6,130 feet
   - 6,185 to 6,215 feet
   - 6,250 to 6,285 feet

8. **Planned Total Depth:** +/-6,350 feet

Figure 5-1: Class VI Injection Well

Geostock Sandia

Drawn by: EDG	Date: Jan 2023	*Drawing not to scale*