

- 4) Move in and rig up Halliburton wireline and run a gauge ring for 5 ½" 17#/ft. casing to TD. Pick up and run a Halliburton EZSV cement retainer and set at ≈ 8660'. (This depth will be verified for allowance of casing collars and whipstock clearance.)
- 5) GIH testing the production tubing to 5000 psi with a retainer stinger on bottom. Sting into the retainer and test the tool and the annulus to 2000 psi.
- 6) Rig up Halliburton and pump in 50 sacks of Premium cement with ¾% CFR-3 below the retainer. Pull out of the retainer and reverse out any residual cement. POH laying down the production tubing.
- 7) Remove all surface production equipment and prepare the location for a large work-over rig set up for drilling. Dig the appropriate pits for drilling.

Drilling Phase

- 8) Move in and rig up Pool Well Service with a large work-over unit with 2 PZ-7 pumps, power swivel, steel mud pits, light plant, pipe racks, 5000 psi BOP's with a rotating head, and additional necessary drilling equipment.
- 9) Pick up a string of 2 7/8" AOH drill pipe and tally in the hole with a 4 ¾" mill tooth drill bit. Tag up on the retainer and correct the measurements to correspond to the target based on the open hole logs. POH.
- 10) Pick up and GIH with a Smith Track Master whipstock. Rig up a surface readout gyro and orient the whipstock to the proper orientation. Set the tool on the retainer, shear off, and mill out the casing. Drill enough new hole to prepare to build the curve. POH laying down the mills. Milling fluid will be water and paper for sweeps.
- 11) Move in and rig up Halliburton Sperry Sun's drilling equipment. Pick up and GIH with an angle building assembly capable of drilling a 100' radius curve with a 4 type insert bit, landing at 8767' at 90 degrees. Drilling fluid will be water and polymer sweeps as needed. The fluid should be viscosified with clear fluid polymers if problems with hole cleaning and integrity are encountered.
- 12) POH and pick up a steerable assembly and drill ahead to a vertical section of 1100' or to the lease line. Drilling fluid as above.
- 13) At TD the hole should be swept until clean.
- 14) POH with the directional tools and release same.
- 15) The acid stimulation will be pumped with the work string and a jetting tool on bottom. Fluid will be pumped down the tubing string at 8 BPM and 7000 psi, as well as down the annulus at 2 BPM and 2000 psi. The well head will need to include a stripping head (BIW) to allow the tubing string to be moved up the hole and pumping to be performed at several intervals. The tubing will have a backpressure valve in place to prevent flow-back as the tuning is moved as well. Details of the job will be specified based on the drilling results. **The well should not be flowed back after stimulation.**