Procedure

Steps 1-10 need to be charged to ASD for abandonment of the Ellenburger interval.

1. Make plans to change from pumping "T" to flowing setup. Make battery changes needed.
2. Meet with all parties involved in this job to discuss procedures and planning.
3. MIRU PU.
4. Install BOP System
5. TIH w/ bit and scraper to ~ 10,100'. TOH.
6. MIRU wireline truck.
7. TIH w/ 5 ½" CIBP and set ~10,100'.
8. Top CIBP with 35' cement.
9. TIH w/ tbg. and circulate hole with 2% KCL and corrosion inhibitor.
10. Test plug and obtain chart for NMOCD. These charges go on ASD estimate for TA of the Ellenburger zone.

11. TIH w/ 4" perforating gun and perforate the Abo interval as follows with 2 SPF using Hyper jet charges (100 holes). Utilize a lubricator during perforating procedures and have a full set of bolts on the flange. TOH.

    6604-6606, 6614, 6621, 6639, 6649-6650, 6681, 6704-6706, 6712-6714, 6724, 6726, 6728, 6736, 6738, 6755-6757, 6778, 6826-6828, 6837, 6867, 6877, 6883, 6921, 6932, 6943-6947, 6955, 6961, 6981, 6999, 7005, 7035, 7039, 7047, 7055-7058 (100 holes)

12. TIH w/ 3 ½" treating string and treating packer. Set packer ~6500'. Hydrostatic test tubing going in hole to 8500#.
13. Load and pressure backside to 500#.
14. Establish rate and pressure w/ 2% KCL and acidize w/ 4000 gals 15% NEFE HCL and 150 ball sealers as per Dowell recommendation.
15. Surge balls and allow to fall.
16. Acidize frac perforations with 15,000 gals 65 quality CO2 foamed 20 % HCL as per Engineer and Dowell recommendation.
17. Open well and flow back to test .
18. Test and obtain fluid and pressure data.
19. **{Consult with Engineer on results of Abo test before adding Drinkard.}**

20. TIH on wireline and set plug in packer assemble.
21. Release packer and TOH w/ treating packer and string.
22. Redress packer to use for the Drinkard zone.
23. TIH w/ RBP and set ~6540' to isolate the Abo perforations.
24. TIH w/ 4" perforating gun and perforate the Drinkard with 2 SPF using Hyper Jet charges (52 holes). Utilize a lubricator during perforating procedures and have a full set of bolts on the flange. TOH.

    - 6335, 6341, 6347, 6348, 6367, 6369, 6373, 6389, 6405, 6409, 6416, 6420, 6426, 6442-6444, 6449, 6457, 6473, 6478, 6483, 6490-6493

25. TIH w/ treating packer. Set packer ~6235'.
26. TIH w/ workstring and latch into packer. Hydrostatic test tubing going in hole to 8500#.
27. Load and pressure backside to 500#.
28. Establish rate and pressure w/ 2% KCL. Acidize perforations w/ 3000 gals 15% NEFE HCL w/ 78 balls.
29. Surge balls and allow to fall.
30. Acidize frac perforations with 10,000 gals 65 quality CO2 foamed 20 % HCL as per Engineer and Dowell recommendation.
31. Open well and flow back to test .
32. Evaluate and test Drinkard interval.
33. Retrieve the RBP above the Abo and commmingle the Abo and Drinkard intervals.
34. Obtain fluid and pressure data.
35. OPT test the well.