19. RU on tbg. PU 90 pts. Pull tbg. seal assembly out of seal bore @13,018'. Packer in hole is a Baker Permanent Retainer Model FB-1, 5-1/2", with 3.0" seal bore. Tubing was set with 10,000 lbs. compression. Check tbg. movement calculations for 10 pts. compression.

20. POOH with tbg. LD tbg. seal assembly.

21. PU wireline entry guide, 3.688" x 2.441" flow coupling, Baker LOK-Set 5-1/2" x 2-7/8" Model AL-2, 20 - 23 lb. per feet, size 45A2 pkr. (I.D. @2.38"), Baker Model "FL" On-Off tool, sealing connector, left hand-off J-Slot, product 683-15. 4-1/2" x 2-7/8" x 2.31" "F" profile. (Washover shoe @4.5", BFC profile @2.31", Internal Yield @6000 psi, External Yield @8000 psi), and

22. RIH to 12,900' with 2-7/8" N-80, 6.5 lb./ft. EUE, Atlas Bradford Modified and API 8rd tbg. Change seals as needed.

23. RU pump truck and reverse circulate 190 bbls. of 2% KCL wtr. with surfactant, inhibitors, surface tension reducing agents, and clay stabilizers. Design this system to be compatible with Kemnitz Field Atoka sands and fluids.

24. PU pkr. to 12,640'. Turn tbg. to right and slack-off. Engage upper slips. Pick-up to engage lower slips. Set down with 12 pts. compression to set pack-off. Do tbg. stretch calculation under present and future conditions to decide final force on pkr. Test tbg. annulus to 3000 psia.

25. ND BOPS. RU WH. Hang tbg. off with final force. Have subs available.

26. Swab fluid level down to lowest possible point.

27. RU pump truck. Pump 1000 gallons of Halliburton's "Morrow Flo BC" with 10% HCL, 5 gallons HAI 75, 125 gallons of mutual solvent "Musal", 5 gallons of Clay Stay II, 7.5 gallons TRI A, 25 gallons FE-1A, and 5 gallons of FR-24. This system has been tested as compatible with the Kemnitz Atoka produced fluids. Load remainder of tbg. w/2% KCL wtr.

28. RU electric wireline truck with full lubricator for 5000 psi and wireline BOPS for 5/16" line.

29. PU gamma ray-casing collar locator tool and RIH to 13,190'. Get on depth to open hole log. Pull log from 13,190' to 12,700'. Note pkr. depth. POOH and LD tools.

30. PU Welex hollow carrier through tubing Side-Winder gun at 14', with decentralizers. Get on depth with collar locator, to shoot 12,750' to 12,764' inclusively at 4 JSPF using zero degree phasing. Use Side-Winder SSB II 3.0 gm charges. Hole diameter at 0.32".

31. Perforate 12,750' to 12,764'. POOH and LD tools.

32. Have swabbing unit on location prior to perforating well.

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33. RU pump truck and wellhead protector and displace the 1000 gallons of 10% HCL into the perforated interval with 2% KCL water. Maximum injection pressure is 8000 psig. RD pump. Use back-side pump. Maximum differential across pkr. is 6000 psi.

34. Flow well back to atmosphere on blow down line. Install portable meter run.

35. Evaluate production. Run build-up after well has cleaned up.

36. Evaluate gas charging potential of Morrow formations.

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