

## Federal IBA Gas Com #2

Attachment to Form 3160-5

October 6, 1999

API No. 30-015-30041

Work commenced 7/18/99.

1. MIRU PU. ND wellhead & NU BOP. Pulled tbg., set RBP @ 2610', L/D sub pump.
2. RU wireline & run static bottom hole pressure. RD wireline. RU Baker Atlas & run gauge ring to 7470'. Run CIBP & set @ 7436'. Dumped 8 sx cement on top of CIBP.
3. Tagged cement @ 7433', (3' of fill), and dumped 12 sx cement on CIBP.
4. Tagged cement @ 7433', no fill. Ran tbg open ended to 7280'. RU Halliburton & pumped 40 sx class H cement & 8 bbls water to set balance plug. Let cement fall out of tbg.
5. Tagged up @ 7432'. POOH w/tbg. RIH w/cement retainer & set @ 7091'. RU Halliburton & pumped 50 BW, 100 sx class H cement, and 6/5 BW. Shut down to let fluid equalize. Pulled out of cement retainer. Reverse circulated w/55 bbls prod. Water. Circulated 2 bbls fresh water to pit.
6. Stung into cement retainer. Pressured up on cement plug. Bled off 200 psil POOH L/D tbg. RIH w/bit on 2-7/8" AOH drill pipe to top of retainer @ 7055'.
7. Drilled out cement retainer. Tagged cement. Drilled w/good returns to 7432'. Lost returns on top of CIBP. Pumped down tbg. L/D swivel.
8. Tag CIBP. POOH w/pipe, L/D bit. RIH w/ cement retainer on 2-7/8" tbg. Set @ 7342'. RU Halliburton & squeezed off perms from 7404' to 7436'. Pumped 10 bbls fresh water, 12 bbls cacl<sub>2</sub>, 2 bbls spacer, 500 gals Flo-check, 2 bbls spacer, 200 sx class H neat cement, 2 bbls spacer, 12 bbls 10% cacl<sub>2</sub>, 2 bbls spacer, 500 gals Flo-check, 2 bbls spacer, 200 sx class H neat cement, & displaced w/5 bbls fresh water. Waited 1 hr, began displacement, & caught cement w/3 bbls out of csg. Pressured up to 100 psi repeatedly until 5 bbls passed out perms. SD, & stung out of pipe. Reversed 50 bbls to pit. No cement.
9. Stung into retainer. Well went on vacuum for short time. Loaded tbg 5 bbls to catch pressure. Wouldn't hold pressure. POOH w/setting tool/stinger. RIH w/bit on 2-7/8" AOH drill pipe. Tagged retainer, drilled retainer, & pushed to top of CIBP. Circulate hole clean. Full returns while drilling out retainer.
10. POOH L/D tbg. RIH w/bit on AOH pipe. Marked pipe, & POOH.
11. RIH w/3" whipstock to 7436'. Ran Gyro. Set whipstock @ 355° Azimuth. Milled from 7419-7421 w/full returns. POOH & PU Pilot mill & 2 watermelon mills on 2-7/8" AOH DP.
12. Tagged @ 7420'. Milled window from 7420'-7428'. Pumped sweep & circulated. Drilled to 7432' & circ.
13. POOH w/mill & RIH w/bit. Drilled 7431' - 7436' w/full returns. Circ & POOH.
14. PU 4-3/4" bit, curve motor & MWD on 2-7/8" DP to 7436'. Drilled to 7518' w/full returns.
15. Drilled to 7648', POOH, & changed out motor & bit. Drilled to 9048" w/full returns. POOH w/bit & motor.
16. RIH w/BHA, picked up swivel, drilled from 9048'-9088'. Attempted survey-MWD not pulsing. POOH w/motor to change out MWD. RIH w/new MWD. Picked up swivel & drilled to 9247'. Took 44 bbls to break circulation.
17. Drilled from 9247'-9585'. Lost returns @ 9415'-9420'. Regained full returns. Losing 6" in pit, or 22 bbls per hour.
18. Drilled to 9719'. Pumped sweep, circulated hole & POOH L/D 51 jts from side track @ 8143'. Change out BHA, PU swivel, break circulation, orient tool face & time drill track slide @ 8143'.
19. Drilled side track from 8143'-8202'. Circulated & POOH to replace gamma module. Reset motor, PU swivel & washed to bottom. Logged from 8170'-8202'. Drilled from 8202'-8234'. MWD failure. Circulated & POOH.
20. Changed out MWD, PU swivel & broke circulation. Re-logged 32' of hole & drilled from 8234'-9845'.
21. Tight hole @ 9406' & 7825'. Unable to get circulation. POOH & L/D MWD & BHA.
22. RIH w/MWD, unable to get survey. POOH & reset motor. RIH to 7441'. PU steering tool & RIH w/wireline.
23. Seat tool & set rocket. Caught pressure. Drilled from 9719'-9962' w/connection.
24. Drilled to 9981'. POOH & ran back in to go in lower lateral. Had to wash to bottom @ 9845'. Extreme tight spots both going in & coming out @ 9406', 9216', & 7825'. Pull wireline & lower rocket 6741'.
25. POOH w/wireline & pipe & lay down tools. RIH w/RBP & set @ 7184'. Shut BOP & RD rig.
26. MIRU PU. PU 2 jts & latch onto RBP. Release & POOH, L/D RBP. RIH w/whipstock latch on collars AOH pipe. POOH L/D whipstock. RIH w/drill bailer, but couldn't knock out CIBP.
27. RIH w/bit, tagged up on CIBP, PU swivel & drilled out CIBP & cement. Drilled from 7438' - 7667'. Pumped on hole 1/2 hour. L/D swivel & pulled out above window.
28. Drilled cement from 7667'-7792'. Finish RIH & tagged up on fill @ 8217'. Cleaned out to 8492' & pumped wellbore clean. POOH L/D bit. RIH w/window dress off mill & cleaned up window. POOH & L/D collars & mill. RIH w/bent jt of AOH pipe to window to clean out lateral.