

IW 24c-15-65 Well History

October 23 - 24, 2004 – Move rig to Mist yard.

October 25, 2004 – Rig up on new location.

October 26, 2004 – General rig up of equipment and mud cleaning equipment. Shut down at 1630 hr.

October 27, 2004 - Weld conductor barrel. Nipple up flow line. Transfer mud from old tank location to new location. Unload drill collars and hwdp. Pull mud from shale tank and cut spill gate in divider wall. Unplug and wash centrifuge. Rig in desander. Start desander and centrifuge on mud system. Mix bicarb and thinners as mud immediately foams. Circulate kelly, bit sub and bit in conductor barrel. Clean conductor and drill kelly down. Shut down at 2400 hr. and wait on new centrifuge. mw = 9.0., visc = 45.

October 28, 2004 – Rig in new centrifuge. Spud well and drill from 45 ft. to 122 ft. Unable to get mud system cleaned. Change mud system and discard mud to spoil pit. Fill tanks with clean water – displace mud from hole. Drill 12.25" hole and work on pump. Drill 443 ft. k.b. T.D. Circulate hole clean. Pick up 17 1/2" bit. mw = 8.4, visc = 36.

October 29, 2004 – Change out 12.25" bit for 17.50" bit. Ream hole to 17.50" to 122 ft. Clean flow line and shaker. Ream to 251 ft. Hole not cleaning. Trip out pull mud ring out. Clean off bit and subs, flush flow line. Trip in ream 70 ft. to btm. Ream out hole to 17.50" to 443 ft. Circulate hole clean. Trip out to run casing. Safety and procedure meeting. Run casing. mw = 8.3, visc = 33.

October 30, 2004 – Circulate casing on btm. at 442 ft k.b. Rig in cementing head and rig in cementers. Cement casing with 300 sacks premium class C, type 1-11 cement mixed at 14.0 lb/gl. (459 cubic feet). Three barrels clean cement to surface. Cement remained at surface. Cut off conductor and casing. Weld on wellhead. Nipple up BOPE. Ran 10 joints 13 5/8" / 48# / H-40 / 8RD / STC / RNG New casing landed at 442 ft. k.b. mw = 8.3, visc = 33

October 31, 2004 – Nipple up bop and equipment. Visually inspect all connections, unions and fittings. Test blind rams, manifold, kill line, bleed off line and mud line. Also, pressure tested bope for DOGAMI inspector on site. Trip in hole circulate out cement contaminated med. Tagged cement at 372 ft. k.b. Circulate hole clean. Treat out cement. Finish bope test for DOGAMI. Check nitrogen back up supply and tank volume indicator. Drill out cement to float collar. Find lost shackle on float collar. Trip out. Trip in hole with 11.5" magnet. Fish out lost shackle. Drill out float collar, cement and show. Clean out hole to 452 ft. Run FLOT – total pressure acting on shoe 800 psi at 442 ft. + 1.81 psi/ft gradient. Trip out hole. Lay down 6.25" drill collars. Pick up directional tools and a 8.75" bit. Trip in hole. Drill ahead with directional equipment drilling 8.75" hole. mw = 8.6, visc = 42.

November 1, 2004 – Drill ahead with directional equipment. Start kick off at 500 ft. Working on cleaning cement contaminated mud. Make wiper trip to casing shoe. Circulate hole clean. Drill ahead with directional equipment as per directional program. Hole good, no problems. mw = 9.2, visc = 40.

November 2, 2004 – Drill to 1622 ft. k.b. Trip out of hole. Change bit and batteries in directional tools. Test directional tools on surface, tools not in right mode. Worked on directional tools. Trip in hole and ream all tight spots. Drill ahead as per directional program to 1799 ft. k.b. mw = 9.1, visc = 39.

November 3, 2004 – Hold safety meeting. Wiper trip ten stands. Drill ahead to 1924 ft. k.b. Shut down centrifuges and desander. Let mud weight climb to 9.8. Drill to 1924 ft. Circulate hole clean. Dummy trip to shoe to check hole condition prior to drilling in C.W. sand. Drill ahead to 2038 ft. Had drilling break at 2027 ft. Well is flowing. Shut in well. Ten minute shut in is 300 psi. Circulate out kick. Small amount of gas mostly salt water. Checked mud chlorides. Now have 1200 ppm verses 40 ppm before kick. Raise mud weight to 10.4 lb/gl with barite. Drill ahead to T.D. 2359. Circulate and condition hole and mud to log. mw = 10.4, visc = 49.

November 4, 2004 – 20 stand dummy trip. Hole good with no problems. Circulate and condition the hole and mud. Trip out of hole. Lay down mud motor. Rig in Halliburton logging unit and log well. HRID – BCSD – FIAC – NRG. Trip in hole open ended to circulate out gas. Circulate and condition mud and hole. Trip out of hole. Lay down all the directional tools. mw = 10.5, visc = 81.

November 5, 2004 - Trip in hole with 2 7/8" tubing stinger on drill pipe. Trip in to 2358 ft. k.b. Spot 88 sack cement plug from 2358 ft to 2000 ft. Mixed cement at 13.8 lb/gl. Yield 1.53 ft. per sack. Pull out of plug. Kelly up and circulate out excess cement. Trip out of hole. Lay down tubing string and cross overs. Pick up 12.25" hole opener. Trip in, ream hole from 442 to 470 feet. Open hole from

470 to 1064 ft. k.b. Having severe cement contamination of the high drill solids mud system. mw = 10.5, visc = 81.

November 6, 2004 – Circulate hole clean. Wiper trip to casing shoe. Open hole to 12.25" to 1198 ft. Make four stand dummy trip – hole is tight. Run in hole circulate out gas kick. Ream out hole to 1261 ft. Make two stand dummy trip. Hole swabbing. Circulate out gas kick. Ream out hole to 1354 ft. Make dummy trip. Hole tight and swabbing. Open hole to 1603 ft. k.b. mw = 10.5, visc = 81.

November 7, 2004 – Open hole to 1665 ft. Rig shut down for repairs. Circulate hole at 40 strokes. Keep mud weight and hole in shape. mw = 10.5, visc = 41.

November 8, 2004 – Wait on draw works repair. Install shaft and service draw works. Open hole to 1694 ft. k.b. mw = 10.5, visc = 81.

November 9, 2004 – Ream hole to 1906 ft. k.b. Open hole to 1945 ft. k.b. Work and circulate hole. Any attempt to pull pipe without circulation causes well to swab in gas. Work on mud system. Lower viscosity to 100. mw = 10.5, visc = 81.

November 10, 2004 – Pull out of hole. Trip back into hole with a 12.25" bit and float sub to 639 ft. Shut down to work on mud pump 2.25 hr. Trip in hole with 12.25" bit picking up pipe laid down on trip out. mw = 11.0, visc = 110.

November 11, 2004 – Trip in hole with a 12.25" bit, picking up pipe. Clean out hole to 1961 ft. Trip out of hole with a balled up 12.25" bit. Trip in hole with a 8.75" bit to clean out hole. Circulate hole clean and trip out with 8.75" bit. Pick up 12.25" hole opener. Open hole to 2042 ft. k.b. Work pipe. Circulate hole clean. mw = 11.0, visc = 110.

November 12, 2004 – Trip out of hole to run 9 5/8" casing. Rig in power tongs and run 9 5/8" casing. Circulate and condition mud and hole to cement casing. Hold safety and procedure meeting. Cement casing as per program. Cement in place. Had good circulation throughout cement placement with 30 barrels clean excess cement to surface. Nipple down bope and set casing slips with 30,000 lbs. Wait on cement. mw = 11.0, visc = 110.

November 13, 2004 – Wait on cement. Clean and mop out mud tanks to take on drill in fluid. Nipple up tubing hanger spool and nipple up bope. Unload 6 5/8" liner and hanging tools. Unload 7" tubing string. W.O.C. mw = 11.0, visc = 110.

November 14, 2004 – W.O.C. Trip in hole with 8/75" bit. Tag cement at 1916 ft. k.b. Circulate hole with clean water. Drill out cement basket at 2025 ft. k.b. Test BOPE per request from DOGAMI. Trip out of hole to log casing. Run casing inspection logs (Halliburton) C.B.L. / CAST V LOG. Trip in hole with 8/75" bit to 2025 ft. Change out drilling. Mix mud. Circulate and condition mud. mw = 10.3, visc = 39.

November 16, 2004 – Finish mixing drill in mud system. Drill out float and shoe. Clean out 8.75" hole to 2099 ft. k.b. Tagged cement at 2086 ft. k.b. Circulate hole clean. Dummy trip. Circulate and condition hole. Trip out of hole. Pick up 15" under reamer. Trip in hole and under ream 15" hole from 2031 ft to 2099 ft. Circulate and clean hole. Dummy trip. Circulate and condition hole. Pull back into shoe. Observe hole and wait to check for fill. Trip in. No fill on btm. mw = 10.3, visc = 39.

November 17, 2004 – Trip out of hole with 15" under reamer. Rig up and run 6 5/8" Excluder screen and equipment. Circulate liner on btm. Had 8 ft. fill on btm. Circulate hole clean, wash btm. Set liner hanger. Pull out of liner to blow ball seat. Unable to blow ball seat. Build mud volume and raise m.w. to trip out of hole wet. Trip out of hole very slowly. Found 20 ft. settled out barite above pump out ball. Clean out tools. Make up 210 ft. 3.5" stinger on drill pipe run and clean out the inside of the liner down to the flapper valve. mw = 10.3, visc = 39.

November 18, 2004 – Circulate and condition mud. Trip out hole with clean out string. Trip in hole with liner hanger equipment. Sting in to liner. Circulate behind liner. Spot clean, filtered 9.9 lb/gl salt water behind liner. Trip out with tools. Rig up to and run in with the 7" tubing string (42 joints 7" casing). Space out casing and hanger. Install B.P.V. Circulate in corrosion inhibitor to back side and fresh water into tubing. mw = 10.3, visc = 39.

November 19, 2004 – Finish displacing 7" tubing string with water. Land tubing string. Nipple down bope and nipple up well head. Rig in lubricator and BPV pulling tools. Pull BPV – well starts immediately and has 100 psi shut in pressure. Install tree cap. Flow well to clean up. Release Rig at 1200 hr. November 19, 2004.