



## HSR-Sharkey 10-35 – Bradenhead

- 1 GYRO ran on 8/24/14.
- 2 Call Foreman/ Field Coordinator at least 24 hrs prior to rig move. If not already completed, request that they catch and remove plunger, isolate production equipment and remove any automation equipment prior to the rig showing up. Install perimeter fence as needed.
- 3 If unable to catch plunger, MIRU SL. Fish plunger and tag fill. Otherwise, use rig to tag fill with tbg. Inform engineer of tag depth.
- 4 Prepare location for base beam rig.
- 5 Spot 25 jts of 2-3/8" 4.7# J-55 8RD EUE tbg.
- 6 Spot 146 jts of 1-1/4" 2.33# J-55 10rd IJ tbg.
- 7 MIRU WO rig. Kill well with fresh water and biocide. ND WH, NU BOP.
- 8 PU tbg to break any possible sand bridges. Do not exceed 80% of tubing tensile strength, or 57,384 lb. LD landing jt.
- 9 Unseat tbg hanger. Install rubber wiper in stripping head.
- 10 MIRU EMI equipment. TOO H with 2-3/8" production tbg. EMI tbg while TOO H. Lay down jts with wall loss or penetrations >35%. Replace jts as necessary. Keep yellow and blue band tbg. Note jt number and depth of tubing leak(s) on production equipment failure report in OpenWells. Clearly mark all junk (red band) tbg sent to yard.
- 11 PU and TIH with 2-3/8" tbg and 4.5" RBP (4.5" 11.6# I-80). Set RBP at +/- 6830' (Collars at 6801' and 6843'). Spot 2 sx sand on top of RBP. TOO H. Stand back tbg.
- 12 MIRU Hydrotester. Pressure test RBP to 5000 psi for 15 minutes. If pressure test passes, proceed. RDMO Hydrotester.
- 13 ND BOP, ND tbg head. Unland 4-1/2" 11.6# I-80 csg (Do not exceed 130,000-lb pull weight). NU double entry flange, NU BOP.
- 14 PU and TIH with 4570' of 1-1/4" tbg outside 4-1/2" csg (should be +/- 145 jts). Make 2 sweeps with Alcomer 74L while TIH.
- 15 Circulate and condition hole with drilling mud with rig pump (1.5x annular volume from 4570'), or until well is completely dead. Make one final sweep with Alcomer 74L. Spot 40 bbls of 10 ppg drilling mud.
- 16 TOO H with 7 jts 1-1/4" tbg to 4370'.
- 17 MIRU Sanjel. Commence pumping cement job consisting 5 bbl fresh water, 20 bbl sodium metasilicate and 5 bbl fresh water, followed with 130 sx of Class G cement with 1/4 lb/sk cello-flake mixed at 14.6 ppg and 1.12 cf/sk blended for a 6 hr pump time (cement from 4370' to 3890').

Bald eagle winter night roosts 11/15

Surface Casing Shoe: 737'

No GYRO needed

No Horizontal

2-Stage Annular fill: 4370'-3890' and 1300'-637'



- 18 TOOH with 28 jts of 1-1/4" tbg to +/- 3500' and circulate drilling mud to clean up tbg and annulus (1.5x annular volume from 3500').
  - 19 PUH with 1-1/4" tbg to +/- 1300'.
  - 20 Commence pumping cement job consisting 10 bbl fresh water, 140 sx of Type III cement with ¼ lb/sk cello-flake mixed at 14.8 ppg and 1.33 cf/sk blended for a 3 hr pump time (cement from 1300' to 637').
  - 21 TOOH with 1-1/4" tbg and LD.
  - 22 RMDO cement company.
  - 23 ND BOP, ND double entry flange, re-land 4-1/2" csg. NU BOP.
  - 24 Leave well SI for minimum of 24 hours.
  - 25 MIRU WL and run CCL-GR-CBL-VDL from 6200' to surface. If SHSX plug is not above 3890' or Fox Hills plug is not above 637', contact engineering for further instructions. Email logs to engineering and [DJVendors@anadarko.com](mailto:DJVendors@anadarko.com). RDMO WL.
  - 26 If tbg head is not as described, ND BOP. Install new GE 5000 psi 4-1/2" bottom threaded tbg head with 7-1/16" flanged top, 7-1/16" flanged 5000 psi tbg head adaptor with 2-1/16" studded top, 2-1/16" flanged 5000 psi master valve, flanged 5000 psi 2-3/8" plunger lubricator (side outlets threaded). All valves, fittings, plugs on well head need to be rated for 5000 psi. NU BOP.
  - 27 TIH with 2-3/8" tbg and retrieving head to tag sand above RBP at +/- 6830'. Circulate sand off RBP, latch onto RBP and TOOH. SB tbg, LD RBP.
  - 28 PU and TIH with 2-3/8" NC, 2-3/8" XN, and 227 jts 2-3/8" tbg. If necessary, drop down with extra jts and circulate/bail as needed to cleanout sand across J Sand perfs. Land end of tbg to PBTD, 4370'.
  - 29 ND BOP, NU WH.
  - 30 GE should pressure test tbg head through test port on side of tbg head adaptor flange to 5000 psi and hold for 15 mins.
  - 31 RMDO WO rig. Return well to production team.
  - 32 Clean location and swab well back to production. Notify Field Foreman/Field Coordinator of finished work and turn well back over to production team.
- 33

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