

## Camenisch 2-15

- 1 Level location for base beam equipped rig.
- 2 Call Foreman or Field Coordinator before rig up to catch plunger, isolate production equipment, and ask if replacement parts/equipment are requested. Operations need to hook up the Bradenhead through hardline to a tank and bleed off the pressure before the rig gets on location.
- 3 Check and report surface casing pressure prior to bleeding off. If surface casing is not accessible at ground level, re-plumb so valve is at ground level.
- 4 If the tubinghead is not rated to 5000 psi then replace the wellhead and all the valves and fittings to make the tubinghead good to 5000 psi.
- 5 Confirm with field foreman/operator if plunger was retrieved otherwise MIRU slickline. Fish plunger from lubricator. RIH and pull the bumper spring and standing valve if necessary. RBIH w/ a sample bailer and tag bottom. Report findings. PBMD @ 8022'. RDMO slickline.
- 6 Spot a minimum of **12** jts of 2-3/8", 4.7#, J-55, EUE tbg for replacement and 120 jts 1-1/4", 2-33#/ft, J-55, 10rd IJ for annular cement job.
- 7 MIRU WO rig. Kill well, as necessary, with freshwater treated with biocide. ND wellhead. NU BOP.
- 8 MIRU EMI services. TOO H with 2-3/8" tubing, do not exceed safety tensile load of 57,384 lbs. EMI tubing while TOO H. Lay down joints with wall loss or penetrations >35%. Replace joints as necessary. **\*\*Keep yellow & blue band tubing. Note joint number and depth of tubing leak(s) on PRODUCTION EQUIPMENT FAILURE REPORT IN OPEN WELLS. Clearly mark rejected tubing as junk tubing. RDMO EMI services.**
- 9 TIH with 2-3/8" tbg and 4.5" RBP and packer (**4.5" csg 11.6#, I-80**). Set RBP @ +/- **5154'**, (collars are at **5136'** and **5178'**). Pressure test the RBP and casing to 5000 psi. spot 2 sx of sand on top of RBP and trip out of the hole with Packer.
- 10 Bleed off pressure. ND BOP's. ND wellhead. Un-land 4 1/2" casing string. NU double entry flange. NU BOP.
- 11 PU 1-1/4" 2.3#/ft J-55 10rd IJ tubing, and TIH outside 4-1/2" casing in open hole to +/- **3400'**. Circulate with freshwater treated with biocide to clean up annulus while TIH.
- 12 MIRU cement services and water truck containing fresh water for cementing. Circulate on bottom with freshwater treated with biocide until returns clean up with rig pump.
- 13 Rig up cement trucks.
- 14 Pump **50** Bbls of drilling mud followed with 5 Bbls. freshwater and cement job consisting of 20 Bbls Sodium Metasilicate followed by **280** sx 15.8 ppg neat Class G cement with 1/4 #/sx cello-flake. The cement to be retarded for 125 degree Fahrenheit for six hour pump time.
- 15 TOO H with ~**34** joints to ~**2330'** and reverse circulate 2 times the tubing volume with drilling mud or until the cement cleans up.
- 16 Rig down cementing company.
- 17 Trip out of the hole with 1-1/4" tubing and shut well in overnight.
- 18 Rig up wireline truck and run a CCL-GR-CBL-VDL from **3600'** to **1500'** or the top of cement. If cement isn't above **2350'** (**1<sup>st</sup> plug**) then get with the Engineer on further cement work.

- 19 PU 1-1/4" 2.3#/ft J-55 10rd IJ tubing, and TIH outside 4-1/2" casing in open hole to **1775'**. Circulate with freshwater treated with biocide to clean up annulus while TIH.
- 20 MIRU cement trucks.
- 21 Pump **50** Bbls of drilling mud followed with 5 Bbls. freshwater and cement job consisting of 20 Bbls Sodium Metasilicate followed by 280 sx 15.8 ppg neat Class G cement with 1/4 #/sx cello-flake. The cement to be retarded for 125 degree Fahrenheit for six hour pump time.
- 22 Rig down cementing company.
- 23 Trip out of the hole with 1-1/4" tubing and shut well in overnight.
- 24 Rig up wireline truck and run a CCL-GR-CBL-VDL from **3150' to 500'** or the top of cement. If cement isn't above **800' (2<sup>nd</sup> plug)** then get with the Engineer on further cement work.
- 25 ND BOP. ND double entry flange and crossover. Pick up and land 4-1/2" casing in slips. NU tubing head. NU BOP SDFN to WOC.
- 26 PU and TIH with 2-3/8" tbg and retrieving head. Circulate sand off RBP at @ **+/-5154'**. TOOH with RBP and standing back tubing.
- 27 Bail if need be.
- 28 TIH 2-3/8" NC, 2-3/8" SN, and 2-3/8" 4.7# J-55 EUE 8rd tubing. Land tubing at +/- **7820'** or 1 joint above the top **JSand perforation (7852'-7876')**.
- 29 Broach tubing to seating nipple. ND BOPs. NU master valve and tubing head adaptor and install 3' pup joint above master valve. Hydrotest tubinghead assembly to 5000 psi for 15 mins. RDMO WO Rig.
- 30 RDMO WO Rig.
- 31 Clean location and swab well back to production, if necessary. Notify Foreman/Field Coordinator of finished work and turn well over to production team.

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