

## HSR WUYTS 13-19

- 1 Provide 48 hour notice of MIRU to COGCC (Randy Edelen (970) 520-2531)
- 2 Prepare location for base beam rig to move onto.
- 3 Call Foreman and/or Field Coordinator before rig up to remove all production equipment off wellhead.
- 4 MIRU WO rig, pump, & tank. Kill w/ fresh water with biocide as needed. ND wellhead. NU BOP's.
- 5 Place cementers on "will call" when rig moves onto location. Baker Hughes cementing services (Sheldon Kelley: (303) 659-5853).
- 6 Unseat pump and TOO H w/ rod string and pump. Fish rod string as necessary. LD rods, LD pump.
- 7 Release T.A.C. Unseat and LD landing joint.
- 8 MIRU tubing inspection company
- 9 TOO H w/ 2-3/8" tbg, T.A.C, SN, and mud anchor and EMI the tubing as stands are stood back. LD joint(s) of tubing that have greater than 35% penetration or wall loss. Replace joints as necessary. Note: Record joint # and depth of bad tubing on **PRODUCTION EQUIPMENT FAILURE REPORT IN OPENWELLS.**
- 10 RDMO tubing inspection company
- 11 MIRU E-Line service company
- 12 RIH with CIBP and set at 7,050' KB (44' above D-Sand perforations)
- 13 RIH and Dump bail 2 sks cmt on top of CIBP
- 14 Unseat casing from slips and work casing free
- 15 RIH with jet cutter (For 4-1/2", 11.6 lbs casing) to cut csg at 4,515 (100' below bottom of Sussex formation). If unable to pull casing after first cut, cut again with jet cutter 50' above first cut. If still unable to pull casing following second cut, call engineering.
- 16 RDMO E-Line service company
- 17 TOO H 4-1/2" casing and LD. If unable to pull casing contact engineering for plugging modifications.
- 18 MIRU cementing services.
- 19 TIH with 2 3/8" N-80 working string to 50' inside casing stub (4,565' KB)
- 20 Pump cement plug from 4,565' KB to 3,945' KB to cover Sussex (Sussex formation is at 4,046' - 4,414'). Pump job as follows: after establishing circulation, pump 50 bbl (240 sks, calculated using 50' inside 4-1/2" casing + 570' in 8-1/4" hole based on caliper log dated 9/12/1997 + 30% excess for portion in open hole) class G 15.8# cmt w/ 0.25 pps Cello Flake, displace to 3,945' KB (15.25 bbl)
- 21 TOO H to have EOT above cement plug (approximately 22 jnts, standing back jnts. Circulate with minimum 9# mud w/ biocide 2 times tubing capacity (30 bbl if EOT is at 3,850') and have clean returns.
- 22 WOC minimum 4 hours; IF SDFN, TOO H with workstring, standing back. (DO NOT LEAVE TUBING IN HOLE OVERNIGHT)
- 23 PU and TIH 2-3/8" tbg to tag top of cement (must be minimum 50' above top of Sussex), if cement is not at or above 3,996' KB, notify engineering.

- 24 TOO H with 2-3/8" working string to have end of tubing at 995' KB (100' below Surface casing shoe). Pump cement plug from 995' KB to Surface to cover Surface casing shoe and set top plug (Surface casing set at 895' KB). Pump job as follows: Establish circulation, followed by 69 bbl (336 sks) class G 15.8# cmt w/ 2% CaCl, cement should come to surface (Calculated using 100' in 9-5/8" hole based on caliper log dated 9/12/1997 + 30% excess + 895' in 8-5/8" csg.)
- 25 RDMO cementing service company. TOO H with workstring and LD.
- 26 RDMO WO rig
- 27 POST RIG ACTIVITIES
- 28 Wellsite supervisor turn all paper copies of cementing reports/invoices and logs in to the APC engineer who wrote the prog. (NOTE: During the job, wellsite supervisor should instruct the logging and cementing contractors to e-mail all logs, job reports/invoices to the APC engineer who wrote the prog.)
- 29 Have excavation contractor notify One-Call to clear for digging around wellhead and flowline removal.
- 30 Check top of cement inside 8-5/8" surface casing. If cement is not of sufficient height (less than 25' below ground level), place redi-mix cementer on will call.
- 31 Excavate hole around surface casing of sufficient size and depth to allow welder to cut off 8-5/8" surface casing at least 5' below ground level.
- 32 Have welder cut off 8-5/8" surface casing at least 5' below ground level.
- 33 If needed, MIRU ready cement mixer. Use 4,500 psi compressive strength redi-mix cement (sand and cement only, no gravel) to finish filling surface casing to top of cut off.
- 34 Have welder weld on steel marker plate. (Note: marker shall be labeled with well name and number, legal location (qtr, qtr description) and API number.
- 35 Properly abandon flowlines as per Rule 1103.
- 36 Have excavation contractor back fill hole with native material. Clean up location and have leveled to plant any vegetation required.
- 37 Submit Form 6 to COGCC. Provide "As Plugged" wellbore diagram identifying the specific plugging completed.