

UPRR 53 PAN AM F #2

- 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. Unseat landing joint and lay down
- 5 Place cementers on "will call" when rig moves onto location. Baker Hughes cementing services (Sheldon Kelley: (303) 659-5853).
- 6 MIRU tubing inspection company
- 7 TOOH w/ 2-3/8" tbg, SN, NC 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.
- 8 RDMO tubing inspection company
- 9 MIRU E-Line service company
- 10 RIH with CIBP and set at 7,520' KB for 4.5" 10.5# csg (46' above J-Sand perforations) (NOTE: There is both 10.5# and 11.6# csg in this well. Csg should be 10.5# from 430' to 7,688')
- 11 RIH and Dump bail 2 sks cmt on top of CIBP
- 12 RIH with CIBP and set at 7,060' KB for 4.5" 10.5# csg (44' above Codell perforations)
- 13 Unseat casing from slips and work casing free
- 14 RIH with jet cutter (For 4-1/2", 10.5 lbs casing) to cut csg at 6,855' (45' above Top of Cement based on CBL dated 1/21/1995). 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.
- 15 RDMO E-Line service company
- 16 TOOH 4-1/2" casing and LD. If unable to pull casing contact engineering for plugging modifications.
- 17 MIRU cementing services.
- 18 TIH with 2 3/8" N-80 working string to just above CIBP set @ 7,060'
- 19 Pump cement on top of CIBP and above csg stub to cover Niobrara top with 400' cement (NB top at 6,814'). Pump job as follows: after establishing circulation with fresh water, pump 55 bbl (205 sks) class G 15.8# + 35% Silica Flour, 0.2% R-3, displace to 6,400' KB (25 bbl fresh water)(Volumes based on 4.5" 10.5# csg and 9-1/4" hole (From log dated 1/21/81) + 30% excess for hole section)
- 20 TOOH to just above TOC, approximately 6,250' KB, standing back jnts. Circulate with minimum 9# mud w/ biocide, enough volume to fill hole to get mud height above bottom of Sussex plug (mud height to 4,600' in 9-1/4" hole (no excess) (approximately 150 bbl) and WOC minimum 4 hours (DO NOT LEAVE TUBING IN HOLE OVERNIGHT, if SDFN, TOOH w/ 2-3/8" workstring, standing back)

- 21 TIH WITH 2-3/8" N-80 workstring and tag TOC. Cement top must be minimum 6,414' KB. If TOC is below 6,414', pump additional cement (class G 15.8# + 35% Silica Flour, 0.2% R-3) to obtain adequate coverage
- 22 TOO H with 2 3/8" N-80 working string to have EOT at 5,200' (115' below bottom of SX/SH formation)
- 23 Pump cement plug from 5,200' KB to 4,000' KB to cover Sussex and Shannon (Sussex/Shannon formation is at 4,190' – 5,083'). Pump job as follows: after establishing circulation, pump 160 bbl (773 sks, calculated from 5,200' – 4,000' inside 10-1/4" hole (from caliper log 1/21/81) + 30% excess) class G 15.8# cmt w/ 0.25 pps Cello Flake, displace to 4,000' KB (15.5 bbl)
- 24 TOO H to have EOT above cement plug, standing back jnts. Circulate with minimum 9# mud w/ biocide enough volume to bring mud into surface casing (surface csg set at 585')(Approximately 400 bbl)
- 25 WOC minimum 4 hours; IF SDFN, TOO H with workstring, standing back. (DO NOT LEAVE TUBING IN HOLE OVERNIGHT)
- 26 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 4,140' KB, notify engineering.
- 27 TOO H with 2-3/8" working string to have end of tubing at 750' KB (100' below bottom of Fox Hills zone).
- 28 Pump cement plug from 750' KB to 185' inside Surface casing to cover Fox Hills and Surface casing shoe (Surface casing set at 585' KB). Pump job as follows: Establish circulation, followed by 37 bbl (182 sks) class G 15.8# cmt w/ 2% CaCl, displace to 400' (1.5 bbl)(Calculated using 165' in 10-1/4" hole based on highest point on caliper log dated 1/21/81 + 50% excess + 185' in 8-5/8", 24# csg.)
- 29 TOO H to have EOT above cement plug, standing back jnts. Circulate with minimum 9# mud w/ biocide enough volume to bring mud to surface (Approximately 25 bbl)
- 30 WOC minimum 4 hours; IF SDFN, TOO H with workstring, standing back. (DO NOT LEAVE TUBING IN HOLE OVERNIGHT)
- 31 PU and TIH 2-3/8" tbg to tag top of cement (If cement is not inside surface casing, notify engineering), TOO H w/ 2-3/8" workstring, standing back
- 32 MIRU E-line Service Company
- 33 RIH with CIBP for 8-5/8", 24# csg., and set just above TOC inside surface casing
- 34 POOH, RDMO E-Line Service Company
- 35 TIH 2-3/8" N-80 workstring to just above CIBP
- 36 Pump cement plug from top of CIBP to Surface. Pump job as follows: Establish circulation, followed by 25.5 bbl (125 sks) class G 15.8# cmt w/ 2% CaCl, bring cement to surface (Calculated using 400' in 8-5/8", 24# csg.)
- 37 RDMO cementing service company. TOO H with workstring and LD.
- 38 RDMO WO rig
- 39 POST RIG ACTIVITIES
- 40 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.)

- 41 Have excavation contractor notify One-Call to clear for digging around wellhead and flowline removal.
- 42 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 well call.
- 43 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.
- 44 Have welder cut off 8-5/8" surface casing at least 5' below ground level.
- 45 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.
- 46 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.
- 47 Properly abandon flowlines as per Rule 1103.
- 48 Have excavation contractor back fill hole with native material. Clean up location and have leveled to plant any vegetation required.
- 49 Submit Form 6 to COGCC. Provide "As Plugged" wellbore diagram identifying the specific plugging completed.