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### PLUG and ABANDONMENT PROCEDURE

#### HSR SEKICH FARMS 16-18

#### Description

1. Provide 48 hour notice to COGCC prior to rig up per request on approved Form 6 (e.g. call field coordinator, submit Form 42, etc.). Notify Automation Removal Group at least 24 hours prior to rig move. Request they catch and remove plunger, isolate production equipment, and remove any automation prior to rig MIRU.
2. MIRU Slickline. Pull production equipment and tag bottom. Record tag depth in Open Wells. Gyro was run on 02/26/14. RDMO Slickline.
3. Prepare location for base beam equipped rig. Install perimeter fence as needed.
4. Verify COAs before RU.
5. Upon RU, check and record bradenhead pressure. If bradenhead valve is not accessible, re-plumb so that valve is above GL. Blow down bradenhead and re-check pressure the next day. Repeat until pressure stays at 0 psi.
6. MIRU WO rig. Spot a min of 25 jts of 2-1/16" 3.25#, tbg. Kill well as necessary using biocide treated fresh water. ND WH. NU BOP. Unland tbg using unlanding joint and LD.
7. TOO H and SB 6940' 2-1/16" tbg. LD any remainder.
8. PU and TIH with (3-1/2", 7.7#) Bit and Scraper on 2-1/16" tbg to 6950'. TOO H, SB all 2-1/16" tbg. LD Bit and Scraper.
9. MIRU WL. PU and RIH with (3-1/2", 7.7#) CIBP and set at +/- 6940' (collars at 6926' & 6966'). POOH. RDMO WL.
10. TIH with 2-1/16" tbg to 6940' . Load hole with biocide treated fresh water and circulate all gas out of well. TOO H and SB 2-1/16" tbg.
11. MIRU WL. RIH and run CBL from 6550' to surface. Forward CBL to Platteville office. Cementing plans may change depending on CBL results. RDMO WL. MIRU hydrotesters. TIH with 2-1/16" tbg to 6940' while hydrotesting to 3000 psi. RDMO hydrotesters. PT CIBP to 2000psi for 15 minutes (3-1/2" csg to be used as a work-string beginning in step 16).
12. MIRU Cementers. Pump Niobrara Balance Plug: Pump 15 sx (23 cf), assuming 15.8 ppg & 1.53 cf/sk. Volume based on 405' inside 3-1/2", 7.7# production casing with no excess. Cement will be from 6940'-6535'. RD Cementers.
13. Slowly pull out of the cement and TOO H to 6035'. Reverse circulate using biocide treated fresh water to ensure the tubing is clean. TOO H and LD all tbg.
14. MIRU WL. RIH and jet cut 3-1/2", 7.7# casing at 3950'. RDMO WL.
15. Establish circulation with biocide treated fresh water and pump one hole-volume (414 bbl).
16. ND BOP. ND TH. Un-land casing using a casing spear, not a lifting sub. Rig max pull shall be 100,000#. Max pull over string weight shall be 50,000#. If unable to unland, contact Engineering.
17. Install BOP on casing head with 3-1/2", 7.7# pipe rams.
18. RU Cementers. Pump 10 bbls (min) of pre-flush, followed by 5 bbls fresh water spacer. Pump Sussex Open Hole Plug: 150 sx (227 cf) with 0.25 lb/sk polyflake, assuming 15.8 ppg & 1.51 cf/sk. Volume is based on 400' in open hole assuming 7.88" bit size with 60% excess. RD Cementers.

19. Slowly pull out of the cement and TOO H to 3050'. Reverse circulate to ensure no cement is left in the csg. WOC per cementing company guidelines. Tag cement as needed.
20. TOO H to 830'. LD remaining csg.
21. Establish circulation to surface with biocide treated fresh water.
22. RU Cementers. Pump 10 bbls (min) of pre-flush, followed by 5 bbls fresh water spacer. Pump Fox Hills Plug: 160 sx (240 cf) with 0.25 lb/sk Polyflake, assuming 15.8 ppg & 1.5 cf/sk. Volume is based on 228' in 7.88" bit size w/ 100% excess factor, and 202' in the 8-5/8", 23# surface casing with no excess. The plug is designed to cover 830'-400'. RDMO Cementers. Notify engineering if circulation is ever lost during job.
23. Slowly pull out of the cement and TOO H to 100'. Reverse circulate using biocide treated fresh water to ensure the tubing is clean. TOO H, LD all 3-1/2", 7.7# csg.
24. MIRU WL. Tag cement as needed. RIH 8-5/8", 23# CIBP to 80'. RDMO WL and WO rig.
25. Instruct cementing and wireline contractors to e-mail copies of all job logs/job summaries to rscDJVendors@anadarko.com within 24 hours of completion of the job.
26. Supervisor submit paper copies of all invoices, logs, and reports to VWP Engineering Specialist.
27. Excavation crew to notify One Call to clear excavation area around wellhead and for flow lines.
28. Capping crew will set and secure night cap on 8-5/8", 23# casing head, restrain the casing head, pressure test CIBP to 500 psi with hydrotest pump, then remove night cap and casing head restraints.
29. Excavate hole around surface casing enough to allow welder to cut casing a minimum 5' below ground level.
30. Welder cut casing minimum 5' below ground level.
31. Fill casing to surface using 4500 psi compressive strength cement (NO gravel).
32. Spot weld on steel marker plate. Marker should contain Well name, Well number, legal location (1/4 1/4 descriptor) and API number.
33. Obtain GPS location data as per COGCC Rule 215 and send to rscDJVendors@anadarko.com.
34. Properly abandon flow lines per Rule 1103. File electronic Form 42 once abandonment is complete.
35. Back fill hole with fill. Clean location, and level.
36. Submit Form 6 to COGCC ensuring to provide 'As performed' WBD identifying operations completed.