

Enerplus Resources

Jones 1

05-123-11988

SWSE Sec 35 – T8N – R67E

990' FSL, 2,425' FEL

Wildcat – Weld County, CO

GL – 5,136' KB – 5,146' (10' KB)

TMD: 9,098' PBSD: n/a

WORKOVER PROCEDURE

3/16/2018 C. Clickner

Current Condition:

This well was plugged on October 19th, 1984. See Current Wellbore Diagram for details.

Recommendation:

It is recommended the well be re-entered and properly plugged and abandoned in accordance with company, state and federal regulations.

Proposed Procedure:

Enerplus Resources stresses safety and environmental stewardship in all operations. Hold pre-job tailgate safety meetings with all service and contract personnel each day and before each new task to discuss possible hazards, location of fire extinguisher, and first aid kits.

1. Locate well. Dig up wellhead and weld collar on top of surface casing cap. Tap surface casing to check for pressure. Cut cap off and weld on slip collar. Bring surface casing up to ground level and install wellhead. Shut well in and backfill.
2. MIRU workover rig. Nipple up BOP and nipple down wellhead. Bleed pressure and top kill if necessary. PU 7-7/8" rock bit with 3-1/8" drill collar. Drill out surface casing plug. RIH with 6, 3-18" drill collars and 2-7/8" PH6 tubing.
3. Tag cement at the bottom of the surface casing.

If plug IS tagged, pressure test surface casing to 500 psi and hold for 15 min. If casing passes pressure test drill out plug, RIH to 500' to clear any cement bridges. Circulate clean. If casing does not pass pressure test contact Cody Clickner and Jeff Schneider.

If plug IS NOT tagged, TOO and stand back drill collars. PU 7-7/8" RBP. RIH and set RBP @ $\pm 375'$. Load hole and pressure test surface casing to 500 psi, hold for 15 min. If casing passes pressure test release RBP, TOO, and LD. If surface casing does not pass pressure test contact Cody Clickner and Jeff Schneider.

4. PU notched collar and RIH. If no bridges are encountered stop every 15-20 joints and circulate the hole clean. Continue to RIH and circulate hole clean as need down to $\sim 7,750'$. Circulate the hole for minimum of 2 hrs. TOO to **7,730'**.
5. RU up cement crew and pump 40 sk balance plug using Class G cement w/ 35% silica flour and retarder as needed across the top of the Muddy formation @ $\pm 7,690'$. Calculated fill is $\sim 140'$ in 7-7/8" open hole w/ tubing removed.
6. **Move up to $\pm 6,950'$** . Spot 40 sk balanced plug w/ Class G cement w/ 35% silica flour and retarder as needed across top of the Niobrara formation @ $\pm 6,900'$. Calculated fill is $\sim 140'$ in 7-7/8" open hole w/ tubing removed. POOH 1 stand and wait 2 hrs. RIH and tag cement. If plug is not tagged contact Cody Clickner and Jeff Schneider.
7. **Move up to $\pm 960'$** (200' below depth of the deepest water well). Spot 40 sk balanced plug w/ Class G cement w/ 35% silica flour and retarder as needed. Calculated fill is $\sim 140'$ in 7-7/8" open hole w/ tubing removed. POOH 1 stand and wait 2 hrs. RIH and tag cement. If plug is not tagged contact Cody Clickner and Jeff Schneider.
8. **Move up to $\pm 450'$** . Establish circulation. Mix and pump enough cement to get cement returns back to surface (~ 140 sks) using Class G cement w/ 35% silica flour and retarder as needed. TOO and LD tubing. Top well off w/ cement.
9. RDMO cement crew and workover rig. Cut off wellhead 4' below ground level. Weld steel plate on 8-5/8" casing and identify w/ well name and legal description. Backfill.