

# Enerplus Resources

## Thayer 2

05-123-11778

NENW Sec 26 – T8N – R67E

660' FNL, 1,900' FWL

Wildcat – Weld County, CO

GL – 5,265' KB – 5,275' (10' KB)

TMD: 7,496' PBTD: 7,477'

## WORKOVER PROCEDURE

3/16/2018 C. Clickner

### Current Condition:

This well was plugged on December 10<sup>th</sup>, 1986. 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. POOH.
3. Rig up lubricator and wireline. Test lubricator. MU and run gauge ring to  $\pm 7,100'$ . POOH.
4. MU and TIH with a **CIBP** and set @  $\pm 7,000'$ . Top with 5 sks Class G cement w/ 35% silica flour and retarder as needed. POOH.
5. MU and TIH with a **CIBP**. Set at  $\pm 5,050'$ . Test CIBP. POOH. MU perf guns and perf **5,000'-5,001'** @ 4 spf (or perf company minimum spf) w/ 35 gram charges. POOH. MU and run in with a **CICR** and set @  $\pm 4,970'$ . Rig up cement crew. Pump 20 sks Class G cement containing retarder as needed to squeeze perfs at 5,000'-5,001'. Continue pumping an additional 5 sks to fill the tubular volume between the CIBP and cement retainer. Un-sting from the CICR and pump 5 sks Class G cement containing retarder as needed on top of CICR. This volume gives us a 100' plug across the base of the Shannon formation @ 4,962'. POOH.
6. MU and TIH with a CIBP. Set at  $\pm 770'$ . Test CIBP. POOH. MU perf guns and perf **720'-721'** @ 4 spf (or perf company minimum spf) w/ 35 gram charges. POOH. MU and run in with a **CICR** and set @  $\pm 700'$ . Rig up cement crew. Pump 220 sks Class G cement containing retarder as needed to squeeze perfs at 720'-721'. Continue pumping an additional 5 sks to fill the tubular volume between the CIBP and cement retainer. Un-sting from the CICR and pump 5 sks Class G cement containing retarder as needed on top of CICR. This volume provides coverage  $\pm 200'$  below and across the base of the Fox Hills formation.
7. **Move up to  $\pm 405'$** . Establish circulation. Mix and pump enough cement to get cement returns to surface (~35 sks) using Class G cement w/ 35% silica flour and retarder as needed. This volume provides cement coverage across to the surface casing shoe to surface. TOOH and LD tubing. Top well off w/ cement.
8. 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.