

Date: 8/15/2018  
Spud: 10/18/2008  
Completed: N/A  
Elevation: 6784'

### YCF 32-12-1

**AFE #: 1805046**

Piceance Creek Basin

API: 0510311200

T01N-R98W-S32; 1,855' FNL & 625' FWL

Rio Blanco County, Colorado

### SCOPE FOR PLUG AND ABANDON

**KWF: 9.00 ppg**

**Note:** All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 9 ppg, sufficient to balance all exposed formation pressures. All cement will be Class G or equivalent, as specified by regulations, mixed at 15.6 ppg with a 1.18 cf/sx yield. The wellbore 'surface' is referred to as 3' below ground level due to csg removal depth requirements.

**Permits:** Obtain approved permits from the State of Colorado and an approved Notice of Intent to Plug and Abandon from the BLM.

***There is no tree on this well and no flange. (See pictures below.) Surface casing is 9-5/8" and cemented to surface. No BOP is needed.***



### Scope:

- 1 Install and test location rig anchors. Comply with all State of Colorado, BLM, and XTO Energy safety regulations. Conduct safety meeting for all personnel on location.
- 2 MIRU daylight pulling unit.
- 3 PU 3440' of WS tubing to use for P&A.

- 4 Test casing to 500 psi via the 1/4" NPT valve. Record casing pressure. NU relief line and blow down well through NPT valve.
- 5 Remove casing cap.
- 6 **Plug #1 PBTD' to 3327' (Isolate Surface Casing Shoe at 3427')** TIH tbg and pressure test to 1000 PSI. Circulate well clean. Tag PBTD. Mix enough Class G cement to bring cement to 3327' (approximately 5.5 sxs per 10'). If tag reaches 3439', we are at TD, and no cement is in hole. In this case, mix approximately 113 sxs Class G cement (47 sxs to fill open hole, and 56 sxs to fill to 3327') and pump into well. PUH. Circulate wellbore clean. PUH to 1330'.
- 7 **Plug #2 (1430' to 1330').** Mix approximately 55 sxs Class G cement and spot balanced plug inside casing from 1430' to 1330' to protect across DVT location. PUH to 160'.
- 9 **Plug #3 (160' to 0').** Mix approximately 78 sxs Class G cement and spot balanced plug inside casing from 160' to surface. TOH and LD tbg. Shut in well and WOC.
- 9 Cut csg strings at 3' below surface. Top out as necessary. Install P&A marker to comply with regulations.
- 10 RDMO rig. Clean up location. Photograph P&A marker and record GPS location. Prepare for site reclamation within 6 months of final wellbore abandonment operations.

# **Proposed Wellbore Diagram**

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**Plug #3** 160' to 0'  
 Cement 78 sxs Class G

**Conductor Hole** 24"; 105.0'  
**Conductor** 20"; 94.00 lb/ft; J-55; 101.0'  
**Top of Cement** Surf. Circ.

9.0 ppg KWF

**Plug #2** 1430' to 1330'  
 Cement 55 sxs Class G

**Stg 2 Cmt** Circ. to surface

**DVT** 1380'

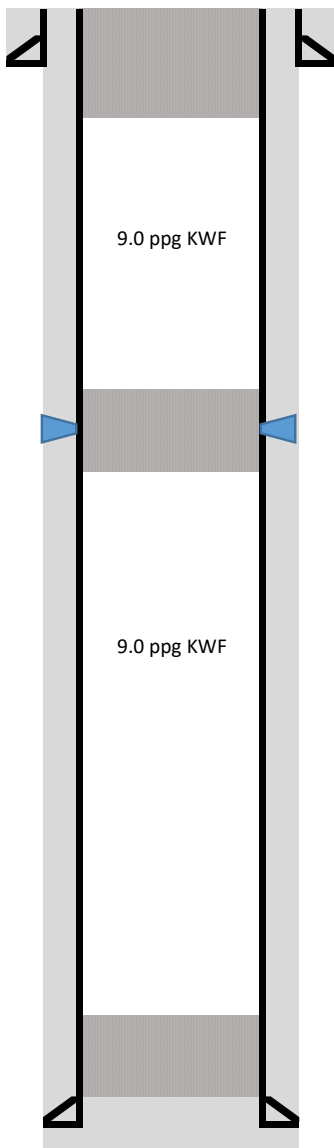
**Stg 1 Cmt** Circ. 60 bbls out of DV

9.0 ppg KWF

**Plug #1** PBTD to 3300'  
 Cement below 47 sxs Class G  
 Cement above 56 sxs Class G  
 113 sxs total

**Surface Hole** 14-3/4"; 3439.0'  
**Surface Casing** 9-5/8"; 36.00 lb/ft; J-55; 3427'  
**Top of Cement** Surf. Calc  
**TD** 3439'  
**PBTD\*** 3391'

\*To be confirmed with tag.

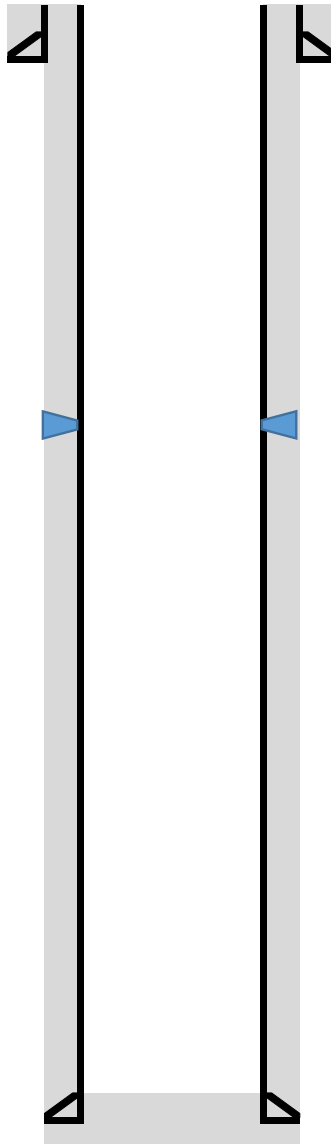


### Current Wellbore Diagram

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**Conductor Hole** 24"; 105.0'  
**Conductor** 20"; 94.00 lb/ft; J-55; 101.0'  
**Top of Cement** Surf. Circ.

**Stg 2 Cmt** Circ. to surface

**DVT** 1380'

**Stg 1 Cmt** Circ. 60 bbls out of DV

**Surface Hole** 14-3/4"; 3439.0'  
**Surface Casing** 9-5/8"; 36.00 lb/ft; J-55; 3427'  
**Top of Cement** Surf. Calc  
**TD** 3439'  
**PBTD\*** 3391'

\*To be confirmed with tag.