

**Andy's Mesa #31
SE SE Section 20-T44N-R16W
San Miguel County, Colorado**

**Proposed P&A Procedure
1/20/2011**

Well Data

KB: 6493'
GL: 6475'

Surface Casing: 9 5/8" 36#/ft K-55 LT&C
Set at 2862'
Cemented to surface

Production Casing: 5 1/2" 17#/ft N-80 LT&C
Set at 8827'
TOC 3450' based on bond log

Casing capacity = 0.0232 bbl/ft
Casing annulus capacity = 0.0479 bbl/ft

Tubing: No tubing in well

Perforations: See wellbore schematic for detail
5338 – 5856' Squeezed off in 12/03
6133 – 8124' Open but non productive
Current PBTD is a CIBP at 8150'

Recommended P&A Procedure

1. Unload 6300' TOM of tubing from the Hamilton Creek Yard. Spot 500 bbls of 9.0 fluid on site in a frac tank.
2. RU rig, flat tank and pump. ND tree and NU BOPs.
3. MU CIBP and RIH on tbg. Set CIBP at 6090'.
4. Circulate 141 bbls of 9.0 fluid inside of the 5 1/2" casing to displace volume.
5. Spot 3 bbls of 16.0 ppg Class G cement on top of CIBP. **Plug #1 cemented from 6090' to 5990'**. Recommend fresh water spacers before and after cement.

6. LD tubing to 4420'. Spot 3 bbls of 16.0 ppg Class G cement from 4420' to 4320'. **Plug #2 cemented from 4420' to 4320'.** Recommend fresh water spacers before and after cement.
7. POOH w/ tubing.
8. RU perforators. RIH w/ gauge ring and tag TOC. MU perforating gun w/ 4 shots at 90 degree phasing. RIH and perforate casing at 2962'. RD perforators.
9. MU cement retainer and TIH on tbg. Set retainer at 2912'. Establish circulation via annulus at surface valve using 9.0 ppg fluid.
10. Pump fresh water spacer and follow with 12 bbls of 16.0 ppg Class G cement. Sting out of retainer and spot 4 bbls of cement on top of retainer. **Plug #3 cemented from 2962' to 2762' inside 5 1/2 casing and 5 1/2" x 9 5/8" annulus.** Recommend follow cement w/ a fresh water spacer.
11. POOH LD tubing.
12. RU perforators. MU perforating gun w/ 4 shots at 90 degree phasing. RIH and perforate casing at 200'. RD perforators.
13. Bullhead in 38 bbls of 16.0 ppg Class G cement and circulate out of the surface valve. **Plug #4 cemented from 200' to surface.**
14. Cut off casings 5 ft below ground level. Send the bradenhead and tree to Cameron to be refurbished.
15. Weld on plate to cap well. Weld in well name, API #, location and GPS coordinates.
16. Fill in around wellhead. Remove surface equipment. Ship all tubing and surface equipment to the Hamilton Creek yard for storage.
17. Reclaim location per the reclamation procedure approved by the BLM.