



Plug & Abandon Procedure

Well: Winter Flats 01-02-100

Prepared by Jason Petermen

WELL INFORMATION:

Well Name: Winter Flats 01-02-100
API #: 05-077-08517

Pad: Winter Flats 01-02-100
County: Mesa
Field: Bronco Flats

Surface Location: 699' FSL & 542' FWL SWSW SEC 2 T9S S100W
Bottom Hole Location: 699' FSL & 542' FWL SWSW SEC 2 T9S S100W

Elevations: KB Elevation: 6737'
KB Height: 10'
GL Elevation: 6747'

TD: 6872' MD / 6872' TVD
PBTD: 6815' MD / 6815' TVD

Casing: Surface: 9 5/8" 36 # K-55 ST&C @ 310', TOC @ surface
Production: 4 1/2" 10.5 # I-80 @ 6870', TOC @ 5820' per CBL
Stage Tool @ 2442' TOC @ 1320'
Open Hole: 8 3/4"

Tubing: 2 3/8" 4.7# J-55 EUE 214 Joints @ 6667' F-Nipple 1 jt up/NC on bottom.

Perforations: 6627'-6786'

Bridge plug: NA

Well Status: Shut in

Contacts:

Health & Safety Coordinator	Greg Anoia	970 216-1387
Production Coordinator	Chanse Bracket	970 210-9370
Engineering Manager	Jason Petermen	970 456 6334
Production Manager	Luke Cody	970 618 2571
Senior Regulatory Manager	Wayne Bankert	970 985 5383
VP Filed - Operations	Chris Clark	970 462 8375

PROCEDURE:

1. Hold pre-job safety meeting with all personnel involved in each operation.
2. MIRU service rig. Order 3k x 5k combo studs for BOP. Haul fresh water to 400 bbl upright for cement jobs.
3. Kill tubing with fresh water. ND production tree and NU and test 5K BOP to 500 psi and 2500 psi for 10 minutes.
4. Kill well and un-land tubing hanger/ Release packer. POOH w/ 214 Joints-EOT @ 6667' F-nipple 1 joint up

Isolate Cedar Mtn w/ 4 ½ CIBP 2 sks Cement:

5. RU wireline-RIH w/ 3.75" gauge ring to 6627'. MU CIBP for 4 ½ 11.6# RIH to set 50' above top perf (6577'). Mix 3 sks (39' of cement) G-neat cement to RIH to dump bail on CIBP at 6577' RD wireline service. Cement from 6577' – 6538'

Isolate Corcoran/Cozzette/Rollins/Cameo w/ 575' Balanced Plug (1694'- 2270')

6. RIH w/ Tubing to bottom of Cocoran at 2270' (Cameo Top @ 1744')
7. RU cement service company to wellhead and pump down 4 ½" casing.
8. Spot 44 sacks (575') Class G cement (15.8 ppg, 1.15 cu.ft./sk, 4.97 gal/sk) 575' cement balanced plug inside 4-1/2" casing. Cement plug from 1694' – 2270'
9. PU hole to 1590' and circulate fresh water to clean tubing. LD all tbg.

Isolate Surface Shoe (Surface shoe depth 310'):

10. RU wireline service
11. RIH to perf at 360' (50' below surface shoe) w/ 4 SPF on 90-degree phasing/.35 Dia/ 22.7-gram JS.
12. Establish circulation with rig pump down casing & circulate out Braiden head until returns are clean. (DO NOT EXCEED 360 psi)
13. RU cement service company mix and pump 53 sks Class G cement (15.8 ppg, 1.15 cu.ft./sk, 4.97 gal/sk)
14. Pump Fresh water Displacement. (150' plug inside 4 ½" -100' plug outside 4 ½" inside 9 5/8" and 50' 4 1/2" X 8 1/4" OH 150' Plug depth 210'- 360'. RD cementers.

Surface Cement Plug: (100' Top out Plug).

15. RU wireline service. RIH and perforate 4 SPF on 90-degree phasing 22.7-gram JS @ 100'. RDMO wireline service and service rig.
16. Establish circulation down 4 ½" casing and up bradenhead.
17. RU cement service company to wellhead and pump down 4 ½" casing.
18. Pump 40 sacks (100') Class G cement with 2% CaCl (15.8 ppg, 1.15 cu.ft./sk, 4.97 gal/sk) 100' cement plug inside 4-1/2" casing and 100' inside 8 5/8" casing.
19. Wait 5 days to verify cement to surface.
20. Cut off casing 3 - 4 feet below GL.
21. Install abandonment marker over SHL as per ECMC regulations. The following minimum information shall be permanently placed on the 3'x3' marker with a plate beaded on by welding:
 - a. Operator name
 - b. Lease number
 - c. Well name and number
 - d. API number
 - e. Location by ¼ ¼ Section, Township and Range.

Post Job:

22. Send tubing to Petros for inspection or DWF pipe yard for storage.