



Plug & Abandon Procedure

Well: Mesa 18-10E

Prepared by: John Grubich

WELL INFORMATION:

Well Name: Mesa 18-10E
API #: 05-077-08667-00

Pad: N/A
County: Mesa
Field: Shire Gulch

Surface Location: 1635 FSL & 2020 FEL SEC 18 T9S R97W
Bottom Hole Location: 1526 FSL & 740 FEL

Elevations: KB Elevation: 4885
KB Height: 11
GL Elevation: 4874

TD: 3100 MD / 2692 TVD
PBTD: 3015 MD / 2640 TVD

Casing: Surface: 12.25" hole @ 361', 8-5/8" 24 ppf J55 STC @ 345', TOC @ surface
Production: 7.875" hole @ 3103', 4-1/2" 11.6 ppf K55 LTC @ 3080', TOC @ 1970' per RMWS CBL dated 11/12/94

Tubing: 2 3/8", 4.7 ppf J55 EUE @ 2752' (86 jts)

Perforations: 2680-2972

Bridge plug: N/A

Well Status: SI

Directions: From the Debeque exit on I-70 follow 45 Rd to Debeque. Turn Left at the Little Bookcliff and Wild Horse Area sign and follow through the South end of Debeque to V 2/10 Rd. Turn Right onto V 2/10 Rd and follow main road 4.4 miles to "Y". Stay Left at "Y" and follow main road 2.6 miles. Turn Right at 4-way intersection and follow 0.5 mile. Turn Right onto location.

Contacts:

Health & Safety Coordinator	Laura Lancaster	970 644 1259
Production Coordinator	Luke Cody	970 618 2571
Completions Manager	John Grubich	970 589 9496
Production Manager	Eric Lane	970 640 9172
Senior Regulatory Manager	Wayne Bankert	970 985 5383
Operations Manager	Chris Clark	970 462 8375
COGCC Contact	Aaron Katz	970 765 6300
BLM Contact	Stephen Garcia	970 876 9031

PROCEDURE:

1. Hold pre-job safety meeting with all personnel involved in each operation.
2. MIRU service rig. Blow down well through production equipment.
3. Pump top kill on well with fresh water.
4. ND production tree and NU and test 5K BOPE to 2500 psi for 10 minutes.
5. Un-land hanger and TOO H standing back 2 3/8" J55 tubing visually inspecting for use as work string to plug well. If tubing shows signs of corrosion LD and prepare to PU 2 3/8" work string for P&A procedure.

Isolate Corcoran/Cozzette Production Perforations:

6. MIRU Wireline service. PU gauge ring for 4 1/2" 11.6 ppg casing and RIH to 2650'. LD gauge ring and PU 4 1/2" CIBP and RIH to set plug at 2600'.
7. Pressure test production casing to 300 psi for 15 minutes.
8. TIH with tubing and spot 10 sacks Class G (15.8 ppg, 1.15 cu.ft./sk yield, 4.97 gal/sk water) cement plug on top of CIBP.
9. TOO H standing back 7 stands and LD remaining tubing.

Isolate Surface Shoe:

10. PU 3 1/8" perf gun with 4 spf 90 degree phased and RIH to shoot 4 perforations at 425'. RD Wireline service.
11. RU rig pump to 4 1/2" production casing and attempt to circulate down 4 1/2" casing and up 4 1/2" annulus through braden head valve. If circulation is achieved, make sure fluid coming out of annulus is clean before pumping cement. If circulation is not achieved contact Completion Manager in Grand Junction to discuss plan for surface shoe cement plug.
12. TIH with 2 3/8" tubing to +/- 445'
13. Place 60 sacks (200 LF) Class G (15.8 ppg, 1.15 cu.ft./sk yield, 4.97 gal/sk water) balanced cement plug inside 4 1/2" casing and 4 1/2" casing annulus @ 225-425'.

Surface Cement Plug:

14. RU wireline service. RIH and shoot 4 spf 90 degree phased @ 75'.
15. Establish circulation down 4 1/2" casing and out braden head valve.
16. RDMO wireline service and service rig.
17. RU cement service company to wellhead and pump 25 sacks (75 LF) Class G (15.8 ppg, 1.15 cu.ft./sk yield, 4.97 gal/sk water) cement plug inside and outside 4-1/2" casing from Surface-75'.
18. Cut off casing 3-4 feet below GL.
19. Install abandonment marker over SHL as per COGCC regulations. The following minimum information shall be permanently placed on the 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 1/4 1/4 Section, Township and Range.

POST-JOB:

20. Send tubing to Petros for inspection or Debeque yard for storage.