



## **Plug & Abandon Procedure**

**Well: Sparks 36-4**

**Prepared by Dan Fouts, Production Engineer**

**WELL INFORMATION:**

**Well:** Sparks 36-4  
**API #:** 05-077-08243-00  
**Pad:** Sparks 36-4

**History:** 1980-March Spud and drilled to 9855 TD  
Plugged back to 5700  
Completed in Cozzette, Corcoran, and Rollins

**Surface Hole:** 913.5 FSL & 2025.6 FEL SW SE SEC36 T09S R95W

**Elevation:** RKB: 6294  
KB: 17  
GL: 6277

**PBTD:** 5700 MD  
**TD:** 9855 MD

**Casing:** Conductor: 13-3/8" 54.5# @ 160 (17-1/2" hole)  
Surface: 7" 23# @ 5676 (10-3/4" hole)  
Production Liner: 4-1/2" 11.6# @ 5580-8126 (6-1/4" hole) (TOC 3572)

**Perforations:** 4987-5533

**Tubing:** None

**Capacities:** 2-3/8" 4.7# tubing: 0.00387 bbls/ft  
4-1/2" 11.6# Casing: 0.0155 bbls/ft  
7" 23# Casing: 0.0393 bbls/ft  
13-3/8" 54.5# Casing: 0.1545 bbls/ft  
2-3/8" x 4-1/2" Annulus: 0.0101 bbls/ft  
7" x 10-3/4" Annulus: 0.0647 bbls/ft  
7" x 13-3/8" Annulus: 0.1069 bbls/ft

**Stratigraphy:** Fort Union 1007  
Mesaverde 2269  
Ohio Creek 2321  
Williams Fork 2470  
Cameo 4557  
Rollins 4967  
Cozzette 5354  
Corcoran 5224

**Well Status:** Idle

**Directions:** Approximate Address: 15200 59-1/2 Rd, Collbran CO 91624  
From High Street in Collbran – South on 58-1/2 Rd .1 miles – South on 59-1/2 Rd 1.2 miles – Left .3 miles – Well is on right

<b>Contacts:</b>	Safety Coordinator	Laura Lancaster	970 644 1259
	Senior Regulatory Manager	Wayne Bankert	970 985 5383
	Production Coordinator	TJ Cordova	970 250 9519
	Production Coordinator	Rory Mortensen	970 778 5161
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	Wellsite Consultant	Dan Hacking	970 778 1063
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	Production Engineer	Dan Fouts	970 852 1170
	Completions Manager	John Grubich	970 589 9496

### **PRE-JOB PLANNING:**

1. Arrange for delivery of 6000 ft +/- of 2-3/8" 4.7# J55 work string.
2. All cement to be neat Class G at 15.8 ppg, yield 1.15 cf/sk yield, and water 4.97 gal/sk.

### **PROCEDURE:**

1. Hold pre-job safety meeting with all personnel involved in operation.
2. MIRU service rig.
3. Kill well with lease water.
4. ND production tree.
5. NU and test Class III BOPE to 2500 psi for 10 minutes.

#### **Isolate Rollins, Cozzette, and Corcoran Perforations and Base of Surface Casing Shoe:**

6. PU 2-3/8" tubing with mule shoe and RIH to tag PBTD.
7. MIRU cementers. Mix and pump 139 sks (29 bbls) Class G cement plug from PBTD to 4900'.

**Isolate Base of Lower Wasatch:** The 7" casing TOC is indicated at 3572 as per Schlumberger CBL dated 4/29/1980. The base of the Lower Wasatch / top of Mesaverde at 2269 is uncemented.

8. MIRU wireline perforators. Shoot 4 x 1/2" holes 90 degree phasing @ 2519.
9. RIH with open ended tubing and set tail within 1 joint of perforations.
10. Attempt to inject into perforations and circulate back to surface through braden head valve. Do not exceed 500 psi.
11. MIRU cementers:
  - a. If circulation is established, mix and pump 254 sks (52 bbls) Class G cement to balance a 500 foot plug inside and outside 7" casing from 2019 to 2519.
  - b. If circulation is not established, immediately contact COGCC's Craig Burger @ 970.319.4194 before proceeding. Mix and pump 112 sks (23 bbls) Class G cement. Squeeze 16 sks (3 bbls) through the perforations and then balance a 500 foot plug inside the 7" casing from 2019 to 2519.

Install Surface Cement Plug:

12. MIRU wireline perforators. Shoot 4 x 1/2" holes 90 degree phasing at 210.
13. Establish circulation with fresh water.
14. MIRU cementers. Mix and pump 140 sks (29 bbls) Class G cement to fill both 7" casing and 7" x 13-3-8" annulus from 210 to surface.
15. Cut off casing 3-4' below GL.
16. RDMO service rig.
17. 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 ¼ ¼ Section, Township and Range.