

**encana**<sup>TM</sup>



**Divide Creek Unit # 32**

**SE/ SE – Section 16 – T8S – R91W**

**FEE – Surface**

**Federal Lease – COC-35400**

**Federal Unit – COC 4160**

**API: 05-077-08585**

**Lat. – 39.355083 / Long.-107.550558**

**Mesa County, Colorado**

**P&A Procedure**

**November 10, 2014**

Engineer: Tanner Messer

Production Group Lead: Mark Thrush

Western Operations Team Lead: Jeff Balmer

API Number: 05-077-08585

Spud Date: October 31, 1989

GL Elevation: 9146'

TD: 3870' MD PBSD 3870'. MD

Surface Casing: 8 5/8" OD, 24 lb/ft, K-55, set at 540 ft.

Surface Casing Properties: ID: 8.097"  
 Drift ID: 7.972"  
 Collapse: 1,370 psig  
 Burst: 2,950 psig  
 Capacity: 0.0637 BBL/ft  
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Production Casing: 5 1/2" OD, 17 lb, N80 set at 3836 ft.

Production Casing Properties: ID: 4.892"  
 Drift ID: 4.767"  
 Collapse: 6,390 psig  
 Burst: 7,740 psig  
 Joint Yield Strength: 397,000 lb  
 Capacity: 0.0232BBL/ft  
 43.0147 Ft./ BBL.  
 Capacity 8 5/8" x 5 1/2" casing: 0.0343 BBL/ft  
 29.1525 Ft./ BBL.

Tubing: 2 7/8" tubing. EOT @ 3479'

Perfs: Cameo Coal – 3496' to 3508' and 3555' to 3554'  
 Upper Cameo Coal – 2973' to 3240' . Squeezed 375 sacks. w/ cement 7/24/2004  
 RBP set @ 3533' to isolate Cameo Coal perfs

### **Objective**

Plug and abandon the Divide Creek Unit #32.

### **Background**

The Divide Creek Unit #32 a vertical well drilled in October of 1989. The well was originally completed in the Cameo Coal formations and has been awaiting permanent P&A. There is T&A status on this well and now the well has moved on to P&A status.

### **Safety**

Safety meetings are to be held with all service company personnel prior to each job. Well site supervisor must notify contractors as to known hazards of which the contractors may be unaware. Well site supervisor must ensure that all workers are aware of their responsibilities and duties under the EH&S guidelines. All safety meetings will be recorded on the EnCana daily completion reports in Well View. Well site supervisor is responsible to ensure that all utility one calls and ground disturbance forms are completed and on location for safety review. All JSA, Ground disturbance forms and Utility one call paper work is to be turned in to Parachute safety department at the completion of the job.

### **Regulations**

All verbal notifications and approval from government regulatory agencies will be recorded on the EnCana daily report. The name of the individual contacted and the subject matter of approval or notification will be recorded.

## **Plug & Abandon Procedure**

1. Notify the COGCC and the Grand Valley BLM at least 48 hours before plugging operations commence.
2. Hold a pre-job safety meeting. Discuss all aspects of the procedure with any involved personnel. Identify and address any safety concerns before the job begins.
3. MIRU pulling unit.
4. ND wellhead, NU BOP.
5. TOH w/ tubing, tally out.
6. RU wireline & RIH w/ cement retainer to 3446'. ROH w/ wireline.
7. TIH w/ tubing & retainer stinger. Sting into retainer @ 3446'.
8. Mix & pump 100 sacks (20 BBLs.) cement through retainer to cover perms. Sting out of retainer & pump 60 sacks (12 BBLs.) cement on top of retainer. This will cover the perms squeezed in the Upper Cameo Coal from 2973' to 3240'
9. TOH w/ tubing. Stand back 590'. Lay down the rest.
10. RU wireline. RIH w/ perf gun & shoot squeeze perms @ 590', 50 feet below surface casing shoe @ 540'. ROH w/ wireline, RD & release.
11. TIH w/ tubing to 590'.
12. Mix & pump 40 sacks (8 BBLs.) cement. 20 sacks in the 8 5/8" X 5 1/2" annular & 15 sacks in the 5 1/2" casing. TOC must be @ or above 490'. WOC & hard tag TOC.
13. TIH w/ tubing hard tag TOC for surface casing shoe plug. TOH w/ tubing laying down. Leave 90 feet of tubing in the hole
14. TOH w/ remaining tubing laying down.
15. ND BOP & rig floor.
16. Dig down around wellhead 4' below ground level. Cut off wellhead & casings. Top off with cement as needed to surface in 5 1/2" and the 8 5/8" X 5 1/2" annular. Install information plate & weep hole & backfill.