

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



**Dragon Trail 1004**

**SE/NW Section 22, T2S, R102W**

**Federal Lease # COC-02866**

**API : 05-103-05148**

**Lat. 39.861553 / Long. -108.832004**

**Rio Blanco County, Colorado**

**P&A Procedure**

**February 19, 2014**

Engineer: Karl Bierman

Production Group Lead: Justin Barberio

API Number:	05-103-05148	
Spud Date:	October 14, 1974	
GL Elevation:	6,947 ft	
TD:	3,330 ft MD	
PBTD:		
Surface Casing:	7 5/8" OD, 24 lb/ft, H-40, set at 178 ft.	
Surface Casing Properties:	ID:	7.025
	Drift ID:	6.972"
	Collapse:	2,040 psig
	Burst:	2,750 psig
	Capacity:	0.0479 BBL/ft
Production Casing:	5 1/2" OD, 17 lb/ft, J-55, set at 2,660 ft.	
Production Casing Properties:	ID:	4.892"
	Drift ID:	4.767"
	Collapse:	4,910 psig
	Burst:	5,320 psig
	Joint Yield Strength:	252,000 lb
	Capacity:	0.0232 BBL/ft
	Capacity 5 1/2" casing x 7 5/8" casing:	0.0186 BBL/ft
Tubing:	1.9" OD, <b>2.4 lb/ft, J-55</b> , set at 2,996 ft.	
Tubing properties:	ID:	1.650"
	Drift ID:	1.597"
	Capacity:	0.0026BBL/ft

**This is an open hole completion and will need to cover the production casing shoe with cement.**

**Objective**

Plug and abandon the Dragon Trail Unit 1004.

**Background**

The DTU 1004 is a vertical well drilled August 30,1960 and completed in the Mancos B. The well has been flow tested and swabbed. It has been determined that this well is no longer economical to operate.

**Safety****Safety**

Safety meetings are to be held with all service company personnel prior to each job. Wellsite 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. Wellsite 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 Rangely 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 Meeker BLM office and the COGCC 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. Load hole.
6. TOH with tubing. Tuboscope out of the hole. Lay down any bad joints.
7. TIH with tubing to production casing shoe @ 2,660'.
8. Mix and pump 25 sacks (5 BBLS) 15.8 lbs. Class G cement. **This is open hole below the production casing shoe and will need to insure the production shoe is covered and a minimum of 50 feet inside of the production casing.**
9. Short TOH with tubing. Make sure to clear cement top with tubing. WOC and tag TOC. TOC must be at least 2610" If not mix and pump additional cement as needed to achieve the desired footage.
10. TOH with tubing to 1,440
11. Mix and pump 15sacks (3 BBLS) cement and set a balanced plug in the 5.5 casing. Estimated TOC @ 1,310'. This will cover the top of the Mancos formation.
12. TOH with tubing
13. RIH w/ wireline. Shoot perfs @ 600'. There is a suspected fresh water zone that we want to ensure is isolated.
14. ROH w/ wireline.
15. TIH with tubing 600 ft.
16. Mix and pump 70 sacks (14 BBLS) cement to isolate fresh water suspected. 45 sacks in the open hole annular and 25 sacks in the 5.5" casing. Estimated TOC @ 400'. This will give us a 200'plug to ensure the fresh water is protected.
17. TOH with tubing and WOC. Wait 6 hours and TIH with tubing and tag TOC. If the TOC is below 450' mix and pump additional cement as needed.
18. TOH with tubing.
19. RIH with wireline and shoot perfs @ 228', 50 feet below the surface casing shoe @ 178'. ROH with wireline, rig down and release wireline.
20. Mix and pump cement to surface in production casing. 30 sacks. (about 6 BBL). This will have cement from 228', 50' below the surface casing shoe, to surface in the 5.5" X 7.625" casing annular and inside the 5.5" production casing. Once wellhead is cut off top off any cement to surface as needed
21. Dig down and cut off wellhead 4 feet below ground level. Weld information plate to casing stub, take GPS readings of well information plate for regulatory agencies and back fill hole.
22. RDMO workover rig.

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Proposed Wellbore diagram  
for plugging procedure.

