

Objective

Plug and abandon the West Dragon Trail Unit 4002.

Background

The West Dragon Trail Unit 4002 is a vertical well drilled October 10, 1959 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 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 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.

API Number: 05-103-05158
Spud Date: October 10, 1959
GL Elevation: 6,615 ft
TD: 2785 ft MD
PBSD:

Surface Casing : 8 5/8" OD, 24 lb/ft, K-55, set at 208 ft.

Surface Casing Properties:

ID (24 lb/ft):	7.921"
Drift ID (24 lb/ft):	7.796"
Collapse (24 lb/ft):	1,370 psig
Burst (24 lb/ft):	2,950 psig
Joint Yield Strength (24 lb/ft):	244,000 lb
Capacity (24 lb/ft):	0.0636 BBL/ft

Production Casing: 5 1/2" OD, 14 lb/ft, J-55, set at 2,582 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, 2.4 lb/ft, J-55, set at 2,582 ft.

Tubing properties:

ID:	1.650"
Drift ID:	1.597"
Capacity:	0.0026 BBL/ft

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

Plug & Abandon Procedure

1. Notify the Meeker BLM office 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 @ 2,582'.
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 2482'. If not mix and pump additional cement as needed to achieve the desired footage.
10. TOH with tubing.
11. RIH w/ wireline. Shoot perfs @ 258', 50 ft below surface casing shoe
12. ROH w/ wireline and RD. Release wireline.
13. TIH with tubing to 258 ft.
14. Establish circulation up casing annulus. Do not pressure past 350 lbs when trying to establish circulation.
15. Pump cement until returns are seen in annulus at surface 45 sacks (9 BBL).
16. Spot cement to surface in production casing. 30 sacks. (about 6 BBL). This will have cement from 258', 50' below the surface casing shoe, to surface in the 5.5" X 8.625" casing annular and inside the 5.5" production casing.
17. 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.
18. RDMO workover rig.