

encana™



Thomas 18-1 (PL18SW)

NW/SW - Section 18 - T10S - R95W

Fed. Minerals / FEE surface

Fed. Lease- COC-35948

API: 05-077-05033

Lat. 39.185953 /Long. -108.043062

Mesa County, Colorado

P&A Procedure

December 22, 2014

Engineer: Sam Bearman

Production Group Lead: Mark Thrush

Western Operations Team Lead: Jeff Balmer

API Number:	05-077-05033	
Spud Date:	August 27, 1961	
GL Elevation:	5968'	
TD:	4550' MD PBTD 4550'. MD	
Surface Casing:	10 ¾ " OD, 40.5 lb/ft, J-55, set at 393 ft.	
Surface Casing Properties:	ID:	10.05"
	Drift ID:	9.894"
	Collapse:	1,580 psig
	Burst:	3,130 psig
	Capacity:	0.0981 BBL/ft 10.1920 Ft./ BBL.
Intermediate Casing:	7" OD, 20 lb/ft, J 55 set at 4004 ft.	
Surface Casing Properties:	ID:	6.456"
	Drift ID:	6.331"
	Collapse:	2,270 psig
	Burst:	3,740 psig
	Capacity:	0.0405 BBL/ft 24.6981 Ft./ BBL.
Production Casing:	4 ½" OD, 9.5 lb/ft, J 55 set at 3913 ft to 4316 ft.	
Production Casing Properties:	ID:	4.090"
	Drift ID:	3.965"
	Collapse:	3,310 psig
	Burst:	4,380 psig
	Joint Yield Strength	152,000 lb
	Capacity:	0.0163BBL/ft 61.5380 Ft./ BBL.
	Capacity7" x 4 ½" casing:	0.0208 BBL/ft 48.0363 Ft./ BBL.
Perfs:	4,152' to 4,153' 4,158' to 4,174' 4,228' to 4,254' 2 spf, 88 perfs total	

Objective

Plug and abandon the Thomas 18-1 (PL18SW)

Background

The Thomas 18-1 (PL18SW) is a vertical well drilled in August of 1961. The well was originally completed the Corcoran Formation at intervals of 4,152' to 4,153', 4,158' to 4,174', as well as 4,228' to 4,254' and has been awaiting permanent P&A.

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 Jct. 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. Set retainer @ 3863'. ROH w/ wireline.
7. TIH w/ tubing & retainer stinger. Sting into retainer @ 3863'
8. Mix & pump 100 sacks (20 BBLS.) cement through retainer to cover perms. Sting out of retainer & pump 10 sacks (2 BBLS.) cement on top of retainer.
9. TOH w/ tubing. Stand back 443' of tubing. Lay down remaining tubing..
10. RU wireline. RIH w/ perf gun & shoot perms @ 443', 50' below the surface casing shoe. ROH w/ wireline. RD & release wireline
11. TIH w/ tubing to 443'.
12. Mix & pump 55 sacks (11 BBLS.) cement 50' below the surface casing . TOC must be at or above 343'. If below 343', mix & pump additional cement as needed.
13. TOH w/ tubing standing back. WOC & hard tag surface casing cement.
14. TIH w/ tubing & hard tag TOC @ 343' or above.
15. TOH w/ tubing and leave 90' of tubing in the hole.
16. Dig down around wellhead 4' below ground level.
17. Mix and pump 40 sacks (8 bbls.) cement to top off cement to surface in the 7" casing and the 10 3/4" X 7"annulus. Install information plate and weep hole. Back fill hole.
18. RDMO workover rig.