



Federal N-36-2-101-S

SE/SW Section 36, T2S, R101W

Federal Lease # COC-19059

Rio Blanco County, Colorado

Lat. 39.82692 / Long.-108.683967

P&A Procedure

July 8, 2014

Engineer: Karl Bierman

Production Group Lead: Chris Valdez

Western Operations Lead: Jeff Balmer

API Number:	05-103-08250	
Spud Date:	8/12/1978	
GL Elevation:	6,075 ft	
TD:	2,865' MD	
PBTD:	2,811' MD	
Surface Casing:	7" OD, 23 lb/ft, K-55, set at 250' ft.	
Surface Casing Properties:	ID:	6.456"
	Drift ID:	6.331"
	Collapse:	2,270 psig
	Burst:	3,740 psig
	Joint Yield Strength:	254,000 lb
	Capacity:	0.0404 BBL/ft
	Capacity 7" casing x 9 5/8" hole:	0.0311 BBL/ft
Production Casing:	4 1/2" OD, 11.6 lb/ft, assumed K-55, set at 2,854 ft.	
Production Casing Properties:	ID:	4.000"
	Drift ID:	3.875"
	Collapse:	4,960 psig
	Burst:	5,350 psig
	Capacity:	0.0155 BBL/ft
	Tubing:	2 1/16" tubing has been removed.
Perfs:	1,220 to 1,228' CIBP set @ 2300' 2,397' to 2'680'	

Objective

Plug and abandon the Federal N-36-2-101-S.

Background

The Federal N-36-2-101-S is a vertical well drilled in August 12, 1978, and completed in the Mancos B. An attempt was made to drill out the CIBP isolating the Mancos B from the Mancos A to down hole commingle & produce both formations. During the operations a bradenhead failure was noted & repair costs no longer make this well economical to produce.

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 Core.

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 & 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. TIH with tubing to CIBP @ 2300'
7. Mix & pump 15 sacks (3 Barrels) cement on top of the CIBP. Estimated top of cement @ 2112'
8. TOH w/ tubing to 1278'. Bottom of the Mancos A perms are @ 1228'
9. Mix & pump 20 sacks (4 Barrels) cement from 1278' to 1170'. Top Mancos A perf is @ 1220'. Estimated TOC @ 1028'
10. TOH w/ tubing & WOC for a minimum of 6 hours. Hard tag TOC to insure that cement top is at least @ 1170', 50 feet above the top perf. If cement is there, proceed to step 11. If not, pump cement until desired top of cement is achieved.
11. RU wireline and shoot perms @ 300 feet, 50 feet below the surface casing shoe @ 250'. ROH w/ wireline, RD & release.
12. TIH with tubing to 300' ft.
13. Establish circulation up casing annulus.
14. Mix & pump 55 sacks (11 BBLs) cement to surface in the 7" X 4 1/2" annulus and 4 1/2" production casing.
15. Dig down and cut off wellhead 4 feet below ground level. Insure that all cement is to surface in the annular & the production casings. Weld information plate to casing stub, take GPS readings of well information plate for regulatory agencies and back fill hole. Top off cement to surface w/ 1" if needed.
16. RDMO workover rig.