

FORM
5Rev
02/08

State of Colorado

Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303) 894-2100 Fax: (303) 894-2109



DE ET OE ES

Document Number:

400468196

Date Received:

08/20/2013

DRILLING COMPLETION REPORT

This form is to be submitted within 30 days of the setting of production casing, the plugging of a dry hole, the deepening or sidetracking of a well, or any time the wellbore configuration is changed. If the well is deepened or sidetracked a new Form 5 is required. If an attempt has been made to complete/produce a well, then the operator shall submit Form 5A (Completed Interval Report.) If the well has been plugged, a form 6 (Well Abandonment Report) is required.

Completion Type ☒ Final completion ☐ Preliminary completion

1. OGCC Operator Number: 96850

4. Contact Name: Michele Weybright

2. Name of Operator: WPX ENERGY ROCKY MOUNTAIN LLC

Phone: (303) 6298449

3. Address: 1001 17TH STREET - SUITE #1200

Fax: (303) 629-8268

City: DENVER State: CO Zip: 80202

5. API Number 05-045-14837-00

6. County: GARFIELD

7. Well Name: FEDERAL

Well Number: PA 313-31

8. Location: QtrQtr: SESW Section: 31 Township: 6S Range: 95W Meridian: 6

Footage at surface: Distance: 616 feet Direction: FSL Distance: 1228 feet Direction: FWL

As Drilled Latitude: 39.475817 As Drilled Longitude: -108.044369

GPS Data:

Data of Measurement: 10/15/2008 PDOP Reading: 1.8 GPS Instrument Operator's Name: J.Kirkpatrick

** If directional footage at Top of Prod. Zone Dist.: 1810 feet. Direction: FSL Dist.: 274 feet. Direction: FWL

Sec: 31 Twp: 6S Rng: 95W

** If directional footage at Bottom Hole Dist.: 1801 feet. Direction: FSL Dist.: 262 feet. Direction: FWL

Sec: 31 Twp: 6S Rng: 95W

9. Field Name: PARACHUTE

10. Field Number: 67350

11. Federal, Indian or State Lease Number: COC62161

12. Spud Date: (when the 1st bit hit the dirt) 06/20/2008 13. Date TD: 06/27/2008 14. Date Casing Set or D&A: 06/28/2008

15. Well Classification:

☐ Dry ☐ Oil ☒ Gas/Coalbed ☐ Disposal ☐ Stratigraphic ☐ Enhanced Recovery ☐ Storage ☐ Observation

16. Total Depth MD 7435 TVD** 7126 17 Plug Back Total Depth MD 7299 TVD** 6990

18. Elevations GR 5562 KB 5586

One paper copy of all electric and mud logs must be submitted, along with one digital LAS copy as available.

19. List Electric Logs Run:

20. Casing, Liner and Cement:

CASING

Casing Type	Size of Hole	Size of Casing	Wt/Ft	Csg/Liner Top	Setting Depth	Sacks Cmt	Cmt Top	Cmt Bot	Status
SURF	13+1/2	9+5/8	32.3	0	2,169	460	0	2,169	VISU
1ST	7+7/8	4+1/2	11.6	0	7,356	832	4,154	7,356	CBL

STAGE/TOP OUT/REMEDIAL CEMENT

Cement work date:

Method used	String	Cementing tool setting/perf depth	Cement volume	Cement top	Cement bottom
SQUEEZE	1ST	3,900	395	3,912	4,082

Details of work:

On 07/22/2013, we pressure tested (failed) and ran a caliper log and found a hole in our 4-1/2" production casing at 4079', on the PA 313-31, API #05-045-14837. The well had come to our attention because it had ceased gas production, and bradenhead pressures were observed between 150-300 psi, indicating a possible casing leak. We then set a cast iron bridge plug at 4150', and a wireline truck perforated the 4-1/2" with 3 shots, 120 deg phasing at a depth of 4082'. A cement retainer was set at 3900', tubing was stung into retainer, and water was pumped down tubing to get an injection rate, which was found to be 2.25 bbls at 550 psi. The next day (07/25/2013) we rigged up Halliburton for the cement squeeze, and pumped 40 bbls of a mud flush to clean the hole, then 5 bbls of water as a spacer, followed by 345 sacks of 13.5 ppg Class G cement, and a 50 sack, 15.8 ppg, Class G cement was tailed in last. 14 bbls of freshwater was pumped to displace the cement from the tubing into the casing holes and perforations, and 8 hesitation squeezes were performed over a period of 2 hrs, going up in 100 psi increments to a final pressure of 1006 psi (see attached Post Job Report). We had planned the cement volumes based on annular backside capacity of the 4-1/2" from 4082', up 500' into the surface casing.

We then waited 3.5 days to allow ample time for the cement to set up, and on 07/29/2013 we ran in the casing with a bit to drill cement out and tagged hard cement at 3912'. We drilled up cement, pressure testing with every new joint of tubing (30') placed in hole, to 1000 psi, plus the hydrostatic pressure of the water column exerted on the bottom. We drilled cement all the way to the cast iron bridge plug, with a last pressure test to 1000 psi surface pressure + (0.433 psi/ft X 4151', hydrostatic pressure of water) = 2797 psi at 4151'.

Next day we had FMC run a wireline Cement Bond Log, and observed a top of cement at 1070', approx 1100' of cement into surface casing.

Bradenhead monitoring has been on-going since workover operations, and the bradenhead pressures have been near zero, indicating a successful cement squeeze for casing repair and pressure isolation.

21. Formation log intervals and test zones:

FORMATION LOG INTERVALS AND TEST ZONES					
FORMATION NAME	Measured Depth		Check if applies		COMMENTS (All DST and Core Analyses must be submitted to COGCC)
	Top	Bottom	DST	Cored	
			<input type="checkbox"/>	<input type="checkbox"/>	

Comment:

Reporting Squeeze Procedure and new Top of Cement Depth.

I hereby certify all statements made in this form are, to the best of my knowledge, true, correct, and complete.

Signed: _____ Print Name: Michele L Weybright

Title: Permit Technician I Date: 8/20/2013 Email: michele.weybright@wpenergy.com

Attachment Check List

Att Doc Num	Document Name	attached ?			
<u>Attachment Checklist</u>					
400469783	CMT Summary *	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
	Core Analysis	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
	Directional Survey **	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
	DST Analysis	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
	Logs	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
	Other	Yes	<input type="checkbox"/>	No	<input checked="" type="checkbox"/>
<u>Other Attachments</u>					
400468196	FORM 5 SUBMITTED	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>
400469782	WELLBORE DIAGRAM	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>
Permit	Cement squeeze to repair casing leak.	10/31/2013 1:10:35 PM

Total: 1 comment(s)