

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:

400662657

Date Received:

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: GINA RANDOLPH

2. Name of Operator: WPX ENERGY ROCKY MOUNTAIN LLC

Phone: (303) 260-4509

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

Fax: (303) 629-8268

City: DENVER State: CO Zip: 80202

5. API Number 05-045-21777-00

6. County: GARFIELD

7. Well Name: Federal

Well Number: RU 21-5

8. Location: QtrQtr: Lot 2 Section: 5 Township: 7S Range: 93W Meridian: 6

Footage at surface: Distance: 199 feet Direction: FNL Distance: 2597 feet Direction: FWL

As Drilled Latitude: 39.474811 As Drilled Longitude: -107.798825

GPS Data:

Date of Measurement: 07/03/2013 PDOP Reading: 1.9 GPS Instrument Operator's Name: J. KIRKPATRICK

** If directional footage at Top of Prod. Zone Dist.: 164 feet. Direction: FNL Dist.: 2032 feet. Direction: FWL

Sec: 5 Twp: 7S Rng: 93W

** If directional footage at Bottom Hole Dist.: 193 feet. Direction: FNL Dist.: 2033 feet. Direction: FWL

Sec: 5 Twp: 7S Rng: 93W

9. Field Name: RULISON

10. Field Number: 75400

11. Federal, Indian or State Lease Number: COC41916

12. Spud Date: (when the 1st bit hit the dirt) 01/27/2014 13. Date TD: 02/06/2014 14. Date Casing Set or D&A: 02/07/2014

15. Well Classification:

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

16. Total Depth MD 10014 TVD** 9985 17 Plug Back Total Depth MD 9905 TVD** 9876

18. Elevations GR 7603 KB 7629

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:

RPM CBL MUDLOGS

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
CONDUCTOR	26	18	48	0	63	24	0	63	VISU
SURF	13+1/2	9+5/8	32.3	0	1,162	320	0	1,162	VISU
1ST	8+3/4	4+1/2	11.6	0	10,003	1,335	2,124	10,003	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		60	2,154	2,184
SQUEEZE	1ST		2	2,173	2,173

Details of work:

RU 21-5

COGCC FORM 4 APPROVED FOR SQUEEZE #400645942

FIRST SQUEEZE:

We pumped a squeeze to plug the hole in casing at 2173ft. We pumped 40sx of 15.8# and 20sx of 17#, as per Halliburton's recommendation. After several days of WOC, we went back and drilled out the retainer and cement. A new CBL was ran to identify the new cement top which was at 2124'. We pressure tested to 3042psi for 30 minutes. There was a loss of 41 psi which was within the allowable 10% fall off limit. Then, we drilled out the CBP at 2248', CBP @9740', CBP @9742' and a CIBP @9940'. We picked up a scraper and ran in to the squeeze hole depth to clean up casing. After this, we ran a 30ft removable casing patch on wireline. The patch was set from 2154'-2184'. We pressure tested to 7650 psi, 90% of burst for the patch, with only a 53psi fall off.

SECOND SQUEEZE:

We pressure test the casing after the removable patch was removed. It failed. The casing hole at 2173' was believed to be the culprit and decided to perform another squeeze. We planned to pump 50sx of 15.8 ppg and 15sx of 17ppg cement. We were only able to get 2.9bbls of cement behind casing before we pressured out at 3000psi. We shut down and let the cement cure over the weekend. We came back and drilled the cement. We pressure tested the casing to 3000psi for 30 minutes with only a 58 psi leak off. Then, we rigged up a wireline truck and logged the squeeze hole. New cement was identified behind casing.

DATA PROVIDED BY:

Isac J. Porraz
Petroleum Engineer
WPX ENERGY
1001 17th St, Suite 1200
Denver, CO 80202
(direct) 303-260-4521
(cell) 724-809-7647
isac.porraz@wpxenergy.com

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	
WASATCH G	3,619		<input type="checkbox"/>	<input type="checkbox"/>	
MESAVERDE	6,158		<input type="checkbox"/>	<input type="checkbox"/>	
CAMEO	9,030		<input type="checkbox"/>	<input type="checkbox"/>	
ROLLINS	9,872		<input type="checkbox"/>	<input type="checkbox"/>	

Comment:

Please note: The "as-drilled" GPS information provided is actual data of the existing well conductor location prior to the big rig spud date.

Surface Pressure = 0

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

Signed: _____

Print Name: GINA RANDOLPHTitle: PERMIT TECH II

Date: _____

Email: GINA.RANDOLPH@WPXENERGY.COM

Attachment Check List

Att Doc Num	Document Name	attached ?
<u>Attachment Checklist</u>		
400662686	CMT Summary *	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
	Core Analysis	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
400662685	Directional Survey **	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
	DST Analysis	Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
	Logs	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
400665160	Other	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
<u>Other Attachments</u>		
400662690	WELLBORE DIAGRAM	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
400662697	DIRECTIONAL DATA	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
400662703	PDF-CBL 1ST RUN	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
400662712	PDF-PULSED NEUTRON	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
400662717	LAS-PULSED NEUTRON	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
400662721	PDF-MUD	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
400662722	LAS-MUD	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>

General Comments

<u>User Group</u>	<u>Comment</u>	<u>Comment Date</u>

Total: 0 comment(s)