FORM 4 Rev 12/05

02287361

Colorado Oil & Gas Conservation Commission

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

DE ES QC ES

RECEIVED
FEB 8 2012
COGCC

SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

1. OGCC Operator Number: 96850
2. Name of Operator: Williams Production RMT Company LLC
3. Address: 1001 17th Street, Suite 1200
   City: Denver State: CO Zip: 80202
4. Contact Name: Howard Harris
   Phone: (303) 606-4086
   Fax: (303) 629-8268

Complete the Attachment Checklist

	OP	OGCC
Survey Plat		
Directional Survey		
Surface Eqpmt Diagram		
Technical Info Page	X	X
Operations Smy		2287362
Wellbore dg		2287363

5. API Number 05-045-10389-00
6. Well/Facility Name: Clough
7. Well/Facility Number: RWF 623-21
8. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWSW SEC. 21 T6S-R94W 6TH PM
9. County: Garfield
10. Field Name: Rulison
11. Federal, Indian or State Lease Number:

OGCC Facility ID Number:

General Notice

☐ **CHANGE OF LOCATION:** **Attach New Survey Plat** (a change of surface qtr/qtr is substantive and requires a new permit)

	FNL/FSL		FEL/FWL	
Change of **Surface** Footage **from** Exterior Section Lines:				
Change of **Surface** Footage **to** Exterior Section Lines:				
Change of **Bottomhole** Footage **from** Exterior Section Lines:				
Change of **Bottomhole** Footage **to** Exterior Section Lines:				attach directional survey

Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer

Latitude | Distance to nearest property line | Distance to nearest bldg, public rd, utility or RR

Longitude | Distance to nearest lease line | Is location in a High Density Area (rule 603b)? Yes/No

Ground Elevation | Distance to nearest well same formation | Surface owner consultation date:

GPS DATA:
Date of Measurement PDOP Reading Instrument Operator's Name

☐ **CHANGE SPACING UNIT**

Formation	Formation Code	Spacing order number	Unit Acreage	Unit configuration

☐ **Remove from surface bond** Signed surface use agreement attached

☐ **CHANGE OF OPERATOR (prior to drilling):**
Effective Date:
Plugging Bond: ☐ Blanket ☐ Individual

☐ **CHANGE WELL NAME** **NUMBER**
From:
To:
Effective Date:

☐ **ABANDONED LOCATION:**
Was location ever built? ☐ Yes ☐ No
Is site ready for Inspection? ☐ Yes ☐ No
Date Ready for Inspection:

☐ **NOTICE OF CONTINUED SHUT IN STATUS**
Date well shut in or temporarily abandoned:
Has Production Equipment been removed from site? ☐ Yes ☐ No
MIT required if shut in longer than two years. Date of last MIT

☐ **SPUD DATE:**

☐ **REQUEST FOR CONFIDENTIAL STATUS** (6 mos from date casing set)

☐ **SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK** *submit cbl and cement job summaries

Method used	Cementing tool setting/perf depth	Cement volume	Cement top	Cement bottom	Date

☐ **RECLAMATION:** Attach technical page describing final reclamation procedures per Rule 1004.
Final reclamation will commence on approximately ☐ Final reclamation is completed and site is ready for inspection.

Technical Engineering/Environmental Notice

☒ Notice of Intent Approximate Start Date: 4/1/12
☐ Report of Work Done Date Work Completed:

Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)

☒ Intent to Recomplete (submit form 2)	☐ Request to Vent or Flare	☐ E&P Waste Disposal
☐ Change Drilling Plans	☐ Repair Well	☐ Beneficial Reuse of E&P Waste
☐ Gross Interval Changed?	☐ Rule 502 variance requested	☐ Status Update/Change of Remediation Plans for Spills and Releases
☐ Casing/Cementing Program Change	☒ Other: Convert to Injection	

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

Signed: Howard Harris Date: 2/7/12 Email: Howard.Harris@Williams.com

Print Name: Howard Harris Title: Sr. Regulatory Specialist

COGCC Approved: Title NWAE Date: 2/28/12

CONDITIONS OF APPROVAL, IF ANY: See COA's on Form 2, recomplete & on doc # 2121401

FORM 4 Rev 12/05	Page 2

TECHNICAL INFORMATION PAGE

FOR OGCC USE ONLY

RECEIVED
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COGCC

1. OGCC Operator Number: 96850 API Number: 05-045-10389-00
2. Name of Operator: Williams Production RMT Company LLC OGCC Facility ID #
3. Well/Facility Name: Clough Well/Facility Number: RMV 215-21
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWSW 21-T6S-R94W

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5. **DESCRIBE PROPOSED OR COMPLETED OPERATIONS**

Williams requests permission to convert the subject well to injection (Water Disposal). A CIBP will be set to isolate the existing perfs and water will be injected into the upper Williams Fork. Se Attached procedure and well bore diagram for additional information. A form 2, form 26, form 31 and form 33 along with other supporting documents are also being submitted.

02287362

Injections Summary

NPX Energy, Inc.
Injection Well Completion Procedure

Well: RWF 623-21
Surf Loc: NESW S21 T6S R94W
Field: RULISON
Production Casing: 4-1/2" 11.6# I-80
Correlate Log: RMWS CBL - 4/23/2005

Prepared By: Chris Caplis
Cell Phone: (303) 601-4884
Office Phone: (303) 606-4041
Fax: (303) 629-8282

Form 4
228736

Date: 2/2/12

MAX Pressure 6000 psi
RMWS Conventional Perf

Stage Top	Stage Btm	Gross Int	Top Perf	Btm Perf	Holes	Gross Pay

Completion Procedure + Operational notes:

1. Contact Production guys to remove any necessary production equipment or sensors and secure well.

2. MIRU Service Unit. Kill well and pull 2 3/8" tubing.
   Inspect for holes, kinks and scale and note depths in report.

3. RIH with Wireline Gauge Ring to +/- 5350 ft
   If unable to get Gauge Ring on depth, RIH with bit & scraper and 2 3/8" workstring
   RIH with wireline set CIBP at +/- 5278 ft.
   Dump bail 2-4 sks cement on top of plug. Let Cement set overnight.

4. NU Frac tree, Pressure test casing to **6000 psi.**

5. Perforate the intervals as outlined below

6. **Perform Acid Breakdown/Ballout:**

   RIH with packer and 2 3/8" workstring, set at 4,895 ft, pressure test packer ~1,000 psi
   Pump 1000 gals 7.5% HCl and 56, 1.1 sg, 7/8" Ball Sealers
   (Pump 250 gal HCl ahead, then drop a ball every 1/3 of a bbl or 13 gals)
   Recover Ball Sealers with Junk Basket Run if necessry

7. **Open tubing to tank, RU Swab, need to recover ~100 bbls (150% of pumped fluid) to obtain a water sample for the State.**

8. Sand Frac Interval #1 as outlined below:

Upper WF Stg 1	4993	5227	234	4993	4995	4	15	Perforations:	**Use 22.7 gm, (0.35"), 120 deg, 3-1/8" EXP gun (361t)**
				5020	5022	4	16	Breakdown:	**Acid ballout will be pumped, so pad only here**
Casing Collar Depth				5034	5036	4	16	Fluids:	Water + 0.5 gpt FR66 + 0.5 gpt LS300D + **1 gal/Mlbs SW WF**
Plug Type	N/A			5081	5083	4	30	Proppant:	30/50 High Crush
Job Size	**768,000**	Gals Sand Laden Fluid		5108	5110	4	40	Pump Schd:	0.5 ppg to 1.5 ppg SLF
Pump Rate	64	bbls/min		5173	5175	4	13	Comments:	**Perform acid ballout prior to frac job**
Est Pump Time	286	min		5227	5229	4	14		**Overflush Btm Perf By 10 bbls**
Proppant	**384,000**	**lbs 30/50 HC**							**Monitor Backside Pressure on all Stages**
Scale Inhibitor	**211**	**gals**		7 Intervals		28	144		

9. SI to set 8K CIBP @ 4,970 ft

10. Pressure test CIBP & csg to **6,000 psi** with acid pumper
    Perforate the intervals as outlined below

11. **Perform Acid Breakdown/Ballout:**

    Pump 1000 gals 7.5% HCl and 56, 1.1 sg, 7/8" Ball Sealers
    (Pump 250 gal HCl ahead, then drop a ball every 1/3 of a bbl or 13 gals)
    Recover Ball Sealers with Junk Basket Run if necessry

12. Sand Frac Interval #2 as outlined below:

Upper WF Stg 2	4582	4905	323	4582	4584	4	28	Perforations:	**Use 22.7 gm, (0.35"), 120 deg, 3-1/8" EXP gun (361t)**
				4651	4653	4	9	Breakdown:	**Acid ballout will be pumped, so pad only here**
Casing Collar Depth				4739	4741	4	11	Fluids:	Water + 0.5 gpt FR66 + 0.5 gpt LS300D + **1 gal/Mlbs SW WF**
Plug Type	8K CIBP			4749	4751	4	11	Proppant:	30/50 High Crush
Job Size	**506,600**	Gals Sand Laden Fluid		4816	4818	4	6	Pump Schd:	0.5 ppg to 1.5 ppg SLF
Pump Rate	64	bbls/min		4895	4897	4	15	Comments:	**Perform acid ballout prior to frac job**
Est Pump Time	189	min		4905	4907	4	15		**Overflush Btm Perf By 10 bbls**
Proppant	**255,000**	**lbs 30/50 HC**							**Monitor Backside Pressure on all Stages**
Scale Inhibitor	**139**	**gals**		7 Intervals		28	95		

13. SI to set 8K CIBP @ 4,558 ft

14. Pressure test CIBP & csg to **6,000 psi** with acid pumper
    Perforate the intervals as outlined below

15. **Perform Acid Breakdown/Ballout:**

    Pump 1000 gals 7.5% HCl and 56, 1.1 sg, 7/8" Ball Sealers
    (Pump 250 gal HCl ahead, then drop a ball every 1/3 of a bbl or 13 gals)
    Recover Ball Sealers with Junk Basket Run if necessry

16. Sand Frac Interval #3 as outlined below:

Upper WF Stg 3	4346	4533	187	4346	4348	4	15	Perforations:	**Use 22.7 gm, (0.35"), 120 deg, 3-1/8" EXP gun (361t)**
				4370	4372	4	15	Breakdown:	**Acid ballout will be pumped, so pad only here**
Casing Collar Depth				4396	4398	4	19	Fluids:	Water + 0.5 gpt FR66 + 0.5 gpt LS300D + **1 gal/Mlbs SW WF**
Plug Type	8K CIBP			4457	4459	4	7	Proppant:	30/50 High Crush
Job Size	**533,300**	Gals Sand Laden Fluid		4510	4512	4	21	Pump Schd:	0.5 ppg to 1.5 ppg SLF
Pump Rate	60	bbls/min		4533	4535	4	21	Comments:	**Perform acid ballout prior to frac job**
Est Pump Time	212	min							**Overflush Btm Perf By 10 bbls**
Proppant	**266,000**	**lbs 30/50 HC**							**Monitor Backside Pressure on all Stages**
Scale Inhibitor	**146**	**gals**		6 Intervals		24	98		

17. SI to set 8K CIBP @ 4,320 ft

    Perforate the intervals as outlined below

19. **Perform Acid Breakdown/Ballout:**

    Pump 1000 gals 7.5% HCl and 56, 1.1 sg, 7/8" Ball Sealers
    (Pump 250 gal HCl ahead, then drop a ball every 1/3 of a bbl or 13 gals)
    Recover Ball Sealers with Junk Basket Run if necessry

20. Sand Frac Interval #4 as outlined below:

Upper WF Stg 4	4124	4307	183	4124	4125	4	34	Perforations:	**Use 22.7 gm, (0.35"), 120 deg, 3-1/8" EXP gun (361t)**
				4199	4200	4	20	Breakdown:	**Acid ballout will be pumped, so pad only here**
Casing Collar Depth				4232	4233	4	11	Fluids:	Water + 0.5 gpt FR66 + 0.5 gpt LS300D + **1 gal/Mlbs SW WF**
Plug Type	8K CIBP			4243	4244	4	11	Proppant:	30/50 High Crush
Job Size	**598,000**	Gals Sand Laden Fluid		4255	4256	4	11	Pump Schd:	0.5 ppg to 1.5 ppg SLF
Pump Rate	64	bbls/min		4280	4281	4	10	Comments:	**Perform acid ballout prior to frac job**
Est Pump Time	228	min		4307	4308	4	15		**Overflush Btm Perf By 10 bbls**
Proppant	**298,000**	**lbs 30/50 HC**							**Monitor Backside Pressure on all Stages**
Scale Inhibitor	**164**	**gals**		7 Intervals		28	112		

21. SI well after frac. Prep to MIRU Service unit, set kill plug and drill out plugs/clean out sand, land FJ tubing and packer @ 4,082 ft

	Gals SLF	Total Scale Inhibitor	Gross Int	Stages	Sands	Holes	Gross Pay	Top of Cmt	Top of MV	Top of Gas	Tubing Depth
Well Totals	2,405,900	660	927	4	20	80	337	3735	4107	5341	4082

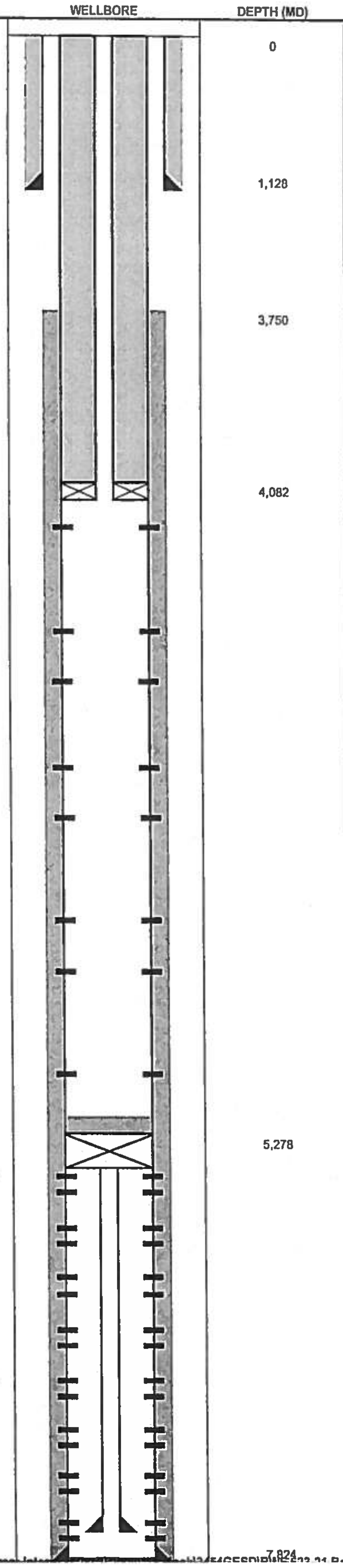
	Horz Rch	Max Angle	@ Depth	Max DLS	@ Depth	MD-TVD	CIBP	CBL TMD
	735	11.9	2550	3.22	183	56	5278	

02287363

Wellbore diagram

Form 4
2287361

RWF 623-21 Wellbore Schematic
2/3/12
Current and Proposed Configuration



Zone	Perf Depths (MD) Top	Bottom
UWF 4	4,124	4,125
	4,199	4,200
	4,232	4,233
	4,243	4,244
	4,255	4,256
	4,280	4,281
	4,307	4,308
UWF 3	4,346	4,348
	4,370	4,372
	4,396	4,398
	4,457	4,459
	4,510	4,512
	4,533	4,535
UWF 2	4,582	4,584
	4,651	4,653
	4,739	4,741
	4,719	4,721
	4,816	4,818
	4,895	4,897
	4,905	4,907
UWF 1	4,993	4,995
	5,020	5,022
	5,034	5,036
	5,081	5,083
	5,108	5,110
	5,173	5,175
	5,227	5,229
Mesa Verde 6	5,356	5,467
Mesa Verde 5	5,556	5,722
Mesa Verde 4	5,850	5,990
Mesa Verde 3	6,068	6,312
Mesa Verde 2	6,428	6,567
Mesa Verde 1	6,706	6,830
Cameo	6,970	7,308
Lower Cameo	7,452	7,696

13 1/2 OH

Surface Casing Depth 1,128'
9 5/8", 36 lb/ft
375 sks cmt
Cement to surface (visual)

7 7/8 OH

Top of Prod Cmt 3,750' (CBL)

Proposed 4 1/2" packer set at 4,082', 2 3/8" J-55 Tubing

Proposed WMFK Perfs	4,124	ft	to	4,125	ft :	4 shots
Proposed WMFK Perfs	4,199	ft	to	4,200	ft :	4 shots
Proposed WMFK Perfs	4,232	ft	to	4,233	ft :	4 shots
Proposed WMFK Perfs	4,243	ft	to	4,244	ft :	4 shots
Proposed WMFK Perfs	4,255	ft	to	4,256	ft :	4 shots
Proposed WMFK Perfs	4,280	ft	to	4,281	ft :	4 shots
Proposed WMFK Perfs	4,307	ft	to	4,308	ft :	4 shots
						28
Proposed WMFK Perfs	4,346	ft	to	4,348	ft :	4 shots
Proposed WMFK Perfs	4,370	ft	to	4,372	ft :	4 shots
Proposed WMFK Perfs	4,396	ft	to	4,398	ft :	4 shots
Proposed WMFK Perfs	4,457	ft	to	4,459	ft :	4 shots
Proposed WMFK Perfs	4,510	ft	to	4,512	ft :	4 shots
Proposed WMFK Perfs	4,533	ft	to	4,535	ft :	4 shots
						24
Proposed WMFK Perfs	4,582	ft	to	4,584	ft :	4 shots
Proposed WMFK Perfs	4,651	ft	to	4,653	ft :	4 shots
Proposed WMFK Perfs	4,739	ft	to	4,741	ft :	4 shots
Proposed WMFK Perfs	4,719	ft	to	4,721	ft :	4 shots
Proposed WMFK Perfs	4,816	ft	to	4,818	ft :	4 shots
Proposed WMFK Perfs	4,895	ft	to	4,897	ft :	4 shots
Proposed WMFK Perfs	4,905	ft	to	4,907	ft :	4 shots
						28
Proposed WMFK Perfs	4,993	ft	to	4,995	ft :	4 shots
Proposed WMFK Perfs	5,020	ft	to	5,022	ft :	4 shots
Proposed WMFK Perfs	5,034	ft	to	5,036	ft :	4 shots
Proposed WMFK Perfs	5,081	ft	to	5,083	ft :	4 shots
Proposed WMFK Perfs	5,108	ft	to	5,110	ft :	4 shots
Proposed WMFK Perfs	5,173	ft	to	5,175	ft :	4 shots
Proposed WMFK Perfs	5,227	ft	to	5,229	ft :	4 shots
						28

CIBP @ 5,278' w/ 2-4 sxs cmt on top

Existing Williams Fork / Cameo perfs from 5,356'-7,695'
133 holes - 8 frac stages
Lower Williams Fork and Cameo production to be temporarily abandoned

7,824' BOC
4 1/2", 11.6 lb/ft
1050 sks cmt

Krabacher, Jay

From: Onyskiw, Denise
Sent: Tuesday, February 28, 2012 1:40 PM
To: Krabacher, Jay
Cc: Andrews, David
Subject: RE: Sundries for wells to be converted to Injection

Jay,
Sundries to convert to injection can be processed by your group if they are on the west side. Just remember to make sure their procedure is to get a water sample for analysis BEFORE fracing or other stuff that may affect the integrity of the sample. If they want to do a step-rate test, they must send us the results so we can calculate the fracture gradient (but not the every-two-second data logger data). If they want to do an injectivity test, then they are limited to 10 000 bbls over ten days.

Denise

From: Krabacher, Jay
Sent: Tuesday, February 28, 2012 1:06 PM
To: Onyskiw, Denise
Cc: Andrews, David
Subject: Sundries for wells to be converted to Injection

Greetings:

"As promised" (or maybe 'as threatened') I will summarize our brief phone conversation regarding some Sundries sent to me from Denver COGCC recently. I believe it is because the "intent to recomplete" block is checked on these.

These are for:

Williams	045-10389	Clough RWF 623-21	2287361
Williams	045-10469	Clough RWF 434-21	2287364
Williams	045-07465	Clough RMV 215-21	2287367
Encana	045-11293	S G U 8506B F26 496	2287458

Each has apparently been reviewed and 'passed' by Permitting (either R E or B W initials in the Permit block). I will look at each well's files, to check if the UIC Forms (33, 26, and 31) etc. are present.

Since I'm not sure if I should review/approve these, I'll review anyway, but leave "in process."

The doc #'s are in the corresponding 4th column, above.

Regards,

Jay Krabacher