FORM 4 Rev 12/05

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State of Colorado

Oil and Gas Conservation Commission

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

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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
3. Address: 1515 Arapahoe St., Tower 3, #1000
   City: Denver State: CO Zip: 80202
4. Contact Name: Howard Harris
   Phone: 303-606-4086
   Fax: 303-629-8272
5. API Number 05- 045-18074-00 OGCC Facility ID Number
6. Well/Facility Name: Federal 7. Well/Facility Number RWF 514-19
8. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWSW Section 19-T6S-R94W 6th PM
9. County: Garfield 10. Field Name: Rulison
11. Federal, Indian or State Lease Number: COC62160

Complete the Attachment Checklist

	OP	OGCC
Survey Plat		
Directional Survey		
Surface Eqpmt Diagram		
Technical Info Page	X	
Other Well Bore Diagram	X	

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:		FSL		FWL
Change of Surface Footage to Exterior Section Lines:		FSL		FWL
Change of Bottomhole Footage from Exterior Section Lines:		FNL		FWL
Change of Bottomhole Footage to Exterior Section Lines:		FNL		FWL

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 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:

DA

☒ ~~**ABANDONED LOCATION:**~~
Was location ever built? ☒ ~~Yes~~ ☐ No
Is site ready for Inspection? ☐ Yes ☐ No
Date Ready for Inspection:
~~**Location is used by five additional wells and will be reclaimed at a latter date**~~

☐ **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: 7/1//10

☐ 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
☐ Casing/Cementing Program Change	☒ Other: P & A	for Spills and Releases

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: 5/27/10 Email: Howard.Harris@Williams.com

Print Name: Howard Harris Title: Sr. Regulatory Specialist

COGCC Approved: David Andrews Title PE II Date: 7/7/2010

CONDITIONS OF APPROVAL, IF ANY:

FORM 4 Rev 12/05

TECHNICAL INFORMATION PAGE

FOR OGCC USE ONLY

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1. OGCC Operator Number: 96850 API Number: 05- 045-18074-00
2. Name of Operator: Williams Production RMT Company OGCC Facility ID #
3. Well/Facility Name: Federal Well/Facility Number: RWF 514-19
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): NWSW Section 19-T6S-R94W 6th PM

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**

While fracing the well during initial completion, the casing burst at 4316'. A cement squeeze was performed and a casing patch was installed. The casing was pressure tested and failed. a caliper was ran and results showed the casing patch failed and in addition another hole was discovered at 5122'. It was assumed that the entire string of casing was bad and the well had a good chance of developing additional holes. Due to the high risk and difficulty in completing the next 6 stages, a decision was made to plug the well and develop the reserves from another well.

See attached form 6 as well as procedure and well bore shcematics.

WILLIAMS PRODUCTION RMT CO.

PROCEDURE - P&A Well

DATE: 5/25/10

WELL (API): **RWF 514-19** (05-045-18074) UNIQUE #: 62280386

PROSPECT: Rulison COUNTY AND STATE: Garfield, CO

LOCATION: Section 19, T6S R94W PAD: RWF 13-19

ENG. CONTACT J Putnam (cell: 303-319-2280) AFE AMOUNT: drill AFE

OBJECTIVE: Plug well, retrieve upper portion of 4-1/2" csg if it fails pressure test

SPUD: 1/3/10

PROD CASING: 4.5" 11.6# I-80 Csg Prop: ID = 4.000", 7780 psi burst, capacity = 0.08726ft^3/ ft

SURF CASING: 9-5/8" 32.3# H-40 Csg Prop: ID = 9.001", capacity = 0.442 ft^3/ ft

CAPACITY 4-1/2" to 9-5/8" ann cap = 0.331 ft^3/ ft ; 8-3/4" OH capacity = 0.418 ft^3/ft

PBTD / LAST TAG: CBP SET AT 7473'

Note: All Cement has to be at least Class G 15.8 ppg (1.15 ft^3/sack)

**** Regulatory: This is a federal well. We need both BLM and COGCC approval of this procedure before we proceed on plugging the well**

PLUG LOWER SECTION OF WELL

1) Notify COGCC / BLM Representatives of start of activity
2) MIRU workover rig
3) RIH and circulate hole with **12.75 ppg** mud
4) Dump bail 4 sx of cement on the existing plug at 7473', ~ 50'
5) Set BP at 5050'
6) Dump bail 4 sx of cement on the plug, ~ 50'
7) Set CIBP at 4210'
8) Dump bail 4 sx of cement on the plug, ~ 50'
9) Shut well in , WOC 12 hrs
10) Pressure test 4-1/2" csg to 500 psi for 30 minutes
11) If Pressure test holds then proceed, if not , discuss with engineering

TEST UPPER CASING FOR BAD JOINTS

12) Pipe bradenhead to pit or tank
- use hard line and put two valves in tandem to control flowback if it occurs

13) Rig up pump truck
14) Bring pressure slowly up to 7400 psi (95% of burst rating)
15) Hold pressure for 15 minutes, then bleed off pressure
16) Again, bring up pressure slowly to 7400 psi
17) Hold pressure for 15 minutes, then bleed off pressure
* Repeat for a total of 4 times
18) If pressure holds, then proceed to step 19a, if casing fails then proceed to step 19b

PLUG UPPER CASING - UPPER 4-1/2" CSG PRESS TEST PASSED

19 a) Shoot two sqz holes at 1175' (50' below 9-5/8" csg)
20 a) Set **cmt retainer** at 1070'
21 a) Attempt to squeeze surf. csg shoe with 40 sx cement through retainer
- if no injection is established, spot 20 sx of cement on retainer

22 a) Spot 4 sx of cmt on top of retainer (~ 50')
23 a) Cut off 9 5/8"' and 4-1/2" casing to 4-ft below surface.
24 a) Run 3 jts tubing inside the 4-1/2" casing - pump balanced plug to surface
25 a) Run 3 jts tubing outside the 4-1/2" casing - pump balanced plug to surface
26 a) Weld in place "plate style" dryhole marker
27 a) Top fill casing with 2 sx cement
28 a) Backfill cellar and reseed disturbed area as appropriate

RETRIEVE 4-1/2" CASING & PLUG UPPER HOLE SECTION - UPPER 4-1/2" CSG PRESS TEST FAILED

19 b) RIH w/ workstring and 4-1/2' packer
20 b) Set packer above plug at ~ 4100'

21 b) Pump down tbg then annulus to confirm csg has failed
- using packer move up csg to identify location of hole

22 b) Once hole is located, then determine joint/collar to pull (run free point if required)
- remove at least one good joint below the hole, and at a minimum, 100' below the surf csg shoe

23 b) RU E-line

24 b) RIH w/ primer cord to chosen collar and set off to loosen collar

25 b) RD E-line

26 b) Back off casing and remove from well
- tag and store burst section of casing for pipe manufacturer analysis

27 b) Spot stub plug 50' below casing top and 50' above casing top (100' plug total) - use 2% CaCl in cement

28 b) Wait 4 hrs. Tag plug.

29 b) Spot cmt plug 50' below surface casing shoe to 50' above casing shoe (100' plug total) - use 2% CaCl in cement

30 b) Wait 4 hrs. Tag plug.

31 b) Cut off 9 5/8'" casing to 4-ft below surface.

32 b) Run 3 jts tubing inside the 9-5/8" casing - pump balanced plug to surface

33 b) Weld in place "plate style" dryhole marker

34 b) Top fill casing with 2 sx cement

35 b) Backfill cellar and reseed disturbed area as appropriate

WILLIAMS PRODUCTION RMT CO.

WELL SCHEMATIC

- Current Condition

LEASE & WELL NO.	**RWF 514-19**	DATE	5/19/10
FIELD NAME	Rulison	COUNTY & STATE	Garfield, CO
LOCATION	Section 19, T6S R94W	API NO.	05-045-18074

K.B. ELEV.	5756'
D.F. ELEV.	5755'
GROUND LEVEL	5733'
CORR.	

HOLE SIZE 13-1/2"

SURFACE CASING

SIZE 9 5/8" WEIGHT 32.# DEPTH 1124'
GRADE H-40 SX. CMT. 320 sx TOC @ surf

Hole in Csg: 4316'
Hole in Patch: 4317'

Homco Csg Patch: 3.70" ID
set at 4300' to 4360'

Cmt Sqz at 4270' to 4342'

HOLE SIZE 8 3/4"

Hole in Csg: 5122'

PRODUCTION CASING

SIZE 4.5 " WEIGHT 11.6# DEPTH 8545'
GRADE I-80 SX. CMT. 1225 sx TOC @ 5,100

8K Comp. Plug at 7473'
8K Comp. Frac Plug (w/ ball) at 7475'
8K Comp. Frac Plug (w/ ball) at 7750'
8K Comp. Frac Plug (w/ ball) at 8074'

MV1: 7510-7731'
Cameo: 7807-8056'
LC: 8161-8313'

PBTD @
Drillers TD @ 8462'

WILLIAMS PRODUCTION RMT CO.

WELL SCHEMATIC

P&A PROPOSED

Williams

LEASE & WELL NO. RWF 514-19
FIELD NAME Rulison
LOCATION Section 19, T6S R94W

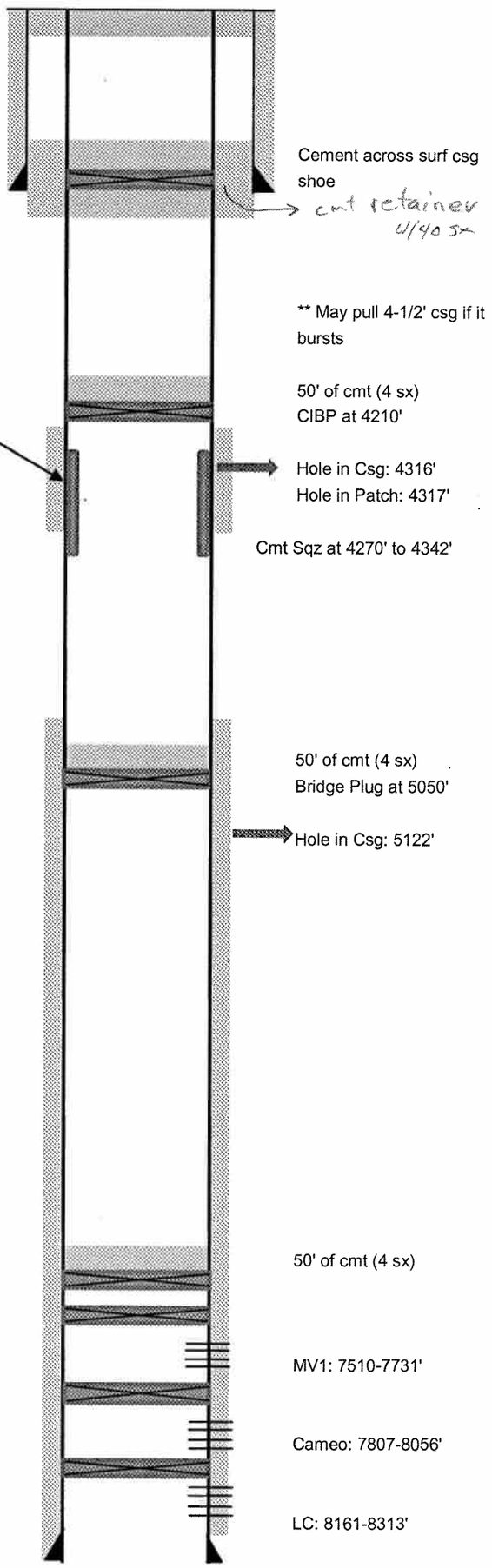
DATE 5/19/10
COUNTY & STATE Garfield, CO
API NO. 05-045-18074

K.B. ELEV. 5756'
D.F. ELEV. 5755'
GROUND LEVEL 5733'
CORR.

HOLE SIZE 13-1/2"

SURFACE CASING

SIZE 9 5/8" WEIGHT 32.# DEPTH 1124'
GRADE H-40 SX. CMT. 320 sx TOC @ surf



PRODUCTION CASING

SIZE 4.5 " WEIGHT 11.6# DEPTH 8545'
GRADE I-80 SX. CMT. 1225 sx TOC @ 4898'

Top of MV: 4969'

HOLE SIZE 8 3/4"

Top of Gas: 6043'

8K Comp. Plug at 7473'
8K Comp. Frac Plug (w/ ball) at 7475'
8K Comp. Frac Plug (w/ ball) at 7750'
8K Comp. Frac Plug (w/ ball) at 8074'

PBTD @ 8517'
Drillers TD @ 8565'