

State of Colorado  
Oil and Gas Conservation Commission

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



02145398

## 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.)

Received  
4/28/13

1. OGCC Operator Number: 96850	4. Contact Name: Greg Davis	Complete the Attachment Checklist
2. Name of Operator: WPX Energy Rocky Mountain, LLC	Phone: (303) 606-4071	
3. Address: 1001 17th Street, Suite 1200	Fax: (303) 629-8268	OP OGCC
City: Denver State: CO Zip 80202		
5. API Number	OGCC Facility ID Number 428428	Survey Plat
6. Well/Facility Name: Mautz Ranch Multi-Well Pt	7. Well/Facility Number	Directional Survey
8. Location (Qtr/Sec, Twp, Rng, Meridian):	SENW 19-T2S-R98W	Surface Eqpt Diagram
9. County: Rio Blanco	10. Field Name: Sulphur Creek	Technical Info Page X
11. Federal, Indian or State Lease Number:		Other

## General Notice

<input type="checkbox"/> CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)	
Change of Surface Footage from Exterior Section Lines:	<input type="checkbox"/> FNU/FSL <input type="checkbox"/> FEL/FWL
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/>
Bottomhole location Qtr/Sec, Twp, Rng, Mer	<input type="checkbox"/> attach directional survey
Latitude	Distance to nearest property line
Longitude	Distance to nearest bldg, public rd, utility or RR
Ground Elevation	Distance to nearest lease line
	Is location in a High Density Area (rule 603b)? Yes/No
	Distance to nearest well same formation
	Surface owner consultation date:
GPS DATA:	
Date of Measurement	PDOP Reading
	Instrument Operator's Name
<input type="checkbox"/> CHANGE SPACING UNIT	<input type="checkbox"/> Remove from surface bond
Formation	Signed surface use agreement attached
Formation Code	
Spacing order number	
Unit Acreage	
Unit configuration	
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):	<input type="checkbox"/> CHANGE WELL NAME
Effective Date:	From:
Plugging Bond: <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	To:
	Effective Date:
<input type="checkbox"/> ABANDONED LOCATION:	<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS
Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No	Date well shut in or temporarily abandoned:
Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No	Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No
Date Ready for Inspection:	MIT required if shut in longer than two years. Date of last MIT
<input type="checkbox"/> SPUD DATE:	<input type="checkbox"/> REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)
<input type="checkbox"/> 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
<input type="checkbox"/> RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.	
Final reclamation will commence on approximately	<input type="checkbox"/> Final reclamation is completed and site is ready for inspection.

## Technical Engineering/Environmental Notice

<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Report of Work Done	
Approximate Start Date:	Date Work Completed:	
Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)		
<input type="checkbox"/> Intent to Recomplete (submit form 2)	<input type="checkbox"/> Request to Vent or Flare	<input type="checkbox"/> E&P Waste Disposal
<input type="checkbox"/> Change Drilling Plans	<input type="checkbox"/> Repair Well	<input type="checkbox"/> Beneficial Reuse of E&P Waste
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested	<input type="checkbox"/> Status Update/Change of Remediation Plans
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other: Water Reuse Plan	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: Greg Davis Date: 4/26/13 Email: Greg.J.Davis@Williams.com  
Print Name: Greg Davis Title: Supervisor PermitsCOGCC Approved: [Signature] Title: 6/20/13 Date: 6/25/13

CONDITIONS OF APPROVAL, IF ANY:

- Produced water or flowback water or other exploration and production waste shall NOT be temporarily stored in large volume storage tanks (LVSTs). Produced water or flowback water shall be temporarily stored in frac tanks.

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: 96850 API Number: \_\_\_\_\_
2. Name of Operator: WPX Energy Rocky Mountain, LLC OGCC Facility ID # 428428
3. Well/Facility Name: Mautz Ranch Multi-Well Pit Well/Facility Number: 428428
4. Location (QtrQtr, Sec, Twp, Rng, Meridian): SENW 19-T2S-R98W

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

Please see the attached proposed "Transferring Operator Water Reuse plan to allow a temporary produced water transfer between WPX Energy Rocky Mountain, LLC (WPX) and Encana Oil & Gas (USA) Inc. (Encana).

Encana has a need for up to 200,000 barrels (bbls) of produced water for Exploration and Production operations in Rio Blanco County, Colorado. WPX operates wells in the Sulphur Creek Field (Ryan Gulch and Ryan Gulch Unit) located in Rio Blanco County, Colorado located near Encana's location currently in need of produced water. WPX is currently sending 6,000-10,000 bbls per day of excess non-tributary produced and flowback water to our approved, existing injection wells for downhole disposal and injection.

WPX would like to transfer this produced water to Encana for beneficial re-use. If permitted to do so, water will be collected at WPX's approved Mautz Ranch Multi-Well Pit (Facility ID 428428, SENW Sec. 19, T2S-R98W, 6<sup>th</sup> PM) and piped to the Custody Transfer Point in the SWSW of Sec 23, T2S-R99W). Water will be piped to the Custody Transfer Point via WPX's proposed, buried water line. A riser and manifold will be installed in WPX's water line at the Custody Transfer Point, which will accommodate the transfer from WPX's buried water line into Encana's proposed surface line which runs from the Custody Transfer Point to their Left Fork 6502 well pad (COGCC ID 316378, NENW of Sec 23, T2S-R99W). Encana will test and verify compatibility of the produced water provided by WPX Energy. Transfer of produced water would begin upon COGCC and BLM approval and terminate after 180 days with an option for extension.



# **Transferring Operator Water Reuse Plan**

**WXP Energy Rocky Mountain, LLC and Encana Oil &  
Gas (USA) Inc.**

**April 2013**

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**Purpose and Need**

This water re-use plan is to be submitted to the Colorado Oil and Gas Conservation Commission (COGCC) with a Form 4 (sundry) to allow a temporary produced water transfer agreement between WPX Energy Rocky Mountain, LLC (WPX) and Encana Oil & Gas (USA) Inc. (Encana).

Encana has a need for up to 200,000 barrels (bbls) of produced water for Exploration and Production operations in Rio Blanco County, Colorado. WPX operates wells in the Sulphur Creek Field (Ryan Gulch and Ryan Gulch Unit) located in Rio Blanco County, Colorado located near Encana's location currently in need of produced water. WPX is currently sending 6,000-10,000 bbls per day of excess non-tributary produced and flowback water to our approved, existing injection wells for downhole disposal and injection.

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**Benefits**

Under this plan, each party shall use reasonable and available means to safely transfer production water, in sufficient volumes and quality, to meet the other party's transfer request, when mutually agreeable to do so. The benefits include:

- Less fresh water withdraws from surface water sources;
- Less reliance on injection wells for disposal of production/flowback water;
- Increased operational efficiencies from reusing local supplies of production/flowback water to meet water demands for drilling, completion and workover activities.

**Produced Fluid Pickup and Transfer Location**

Produced water will be collected at the approved Mautz Ranch multi-well pit and piped to Encana's identified delivery location on the Left Fork 6502 well pad (COGCC ID 316378) via existing and proposed buried and surface water lines operated by WPX and Encana. The transferring company (WPX) shall maintain all regulatory responsibility, custody and control for all water until such time as it crosses the Custody Transfer Point, after which Encana will assume regulatory responsibility, custody and control for all water. Exact location of the Custody Transfer Point is Lat 39.855764°/Long -108.477594°. See attached map for additional detail on the custody transfer point.

From the custody transfer point, Encana will reuse the transferred water at the following location:

BH DU A11 2100 pad, COGCC ID 425361, NENE Sec 11 T2S, R100W, Rio Blanco County, Colorado

#### **Transfer**

WPX's transfer activities will consist of the following:

Transport water from WPX's Mautz Ranch Multi-Well Pit (Facility ID 428428) to the Custody Transfer Point located in Rio Blanco County, Colorado. WPX will assume responsibility of the water from its above named Pit until the water enters the manifold connecting WPX's buried water line to Encana's surface water line.

The volumes of fluid to be delivered will be up to 10,000 bbls/day; actual transferred volumes will be metered.

WPX will maintain records with the following information:

- Changes to the approved plan;
- Applicable training requirements for WPX and its contractors (lock out/ tag out, job hazard analysis at the transfer location, etc.);
- Types and results of internal and contractor audits conducted;
- Tabulated waste generator records, if required by Rule 907.b.(2) including:
  - Date of transport
  - Identity of water generator
  - Identity of water transporter
  - Volume of water transported
  - Location of receiving point(Transport tickets will be maintained for each load)
- Summary of spills, incidents or upsets.

#### **Spill Response and Cleanup Measures**

WPX's collection facilities are covered under a Spill Prevention Control and Countermeasure Plan (SPCC).

Encana's receiving points are also covered under a SPCC plan.

#### **Analytical Data**

An analysis representative of the water to be transferred to Encana will be included as Attachment B.

### Operator Contact Information

WPX Energy Rocky Mountain, LLC  
Lisa Dee  
Regulatory Specialist  
1058 County 215  
Parachute, CO 81635  
720.470.4919 Mobile  
970.263.2738 Office

ENCANA OIL & GAS (USA) Inc.  
Louie Gibson  
Trucking Supervisor: SRBU Water Management  
143 Diamond Ave.  
Parachute, CO 81635  
970.489.1749 Office  
970.989.0143 Mobile

### Summary

Origination of water – WPX's Rio Blanco County drilling and completion activities;

Destination of water – Encana's Left Fork 6502 well pad (COGCC ID 316378) located in Rio Blanco County, Colorado;

Water Transportation – All water transported to Encana will be piped via existing and proposed buried water lines used by WPX and Encana.

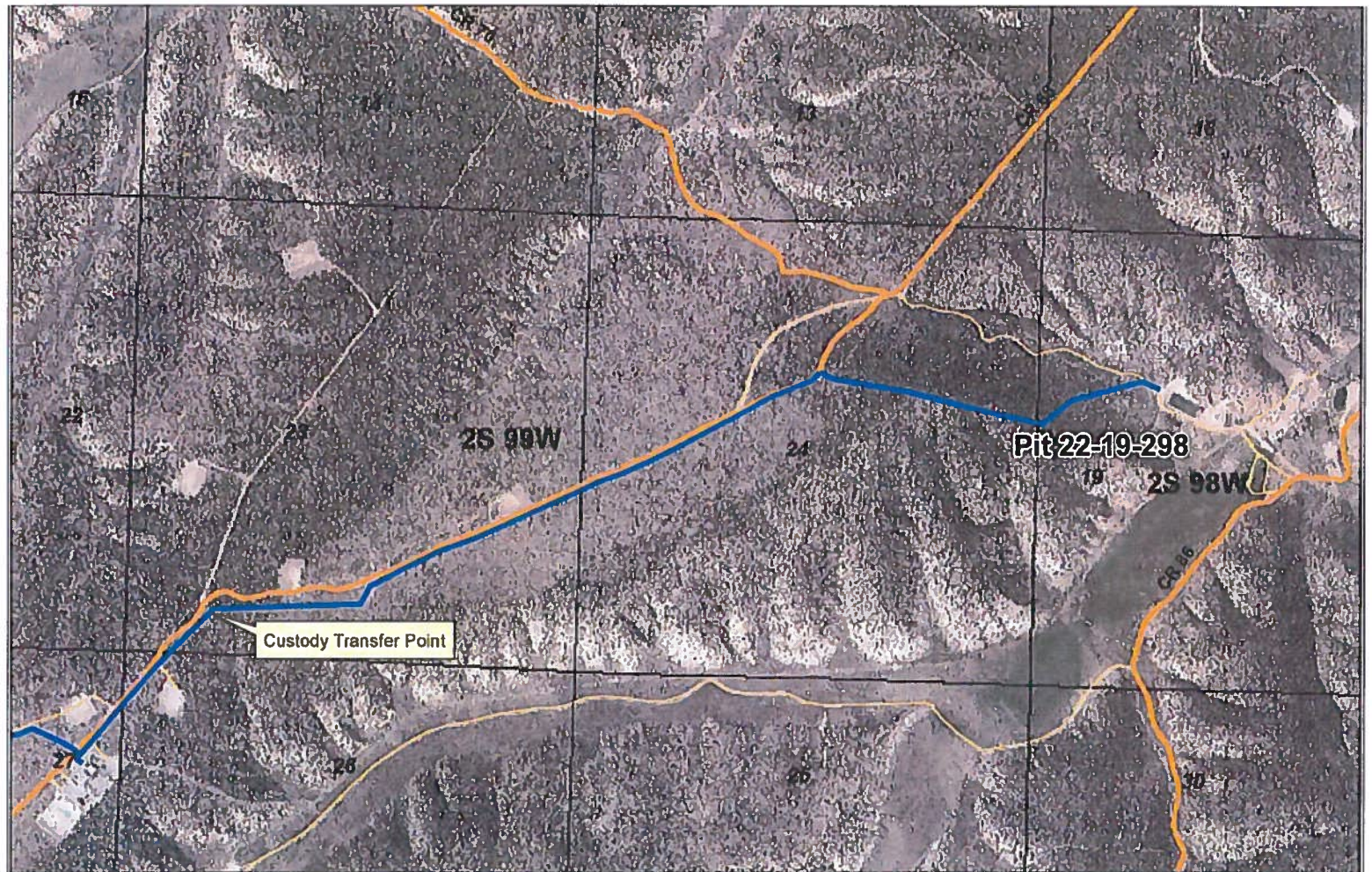
Estimated volume of water transferred – up to 10,000 bbls/day for up to 180 days.

The transporting operator shall implement the following:

- APPROVAL OF THIS PLAN IS CONTINGENT UPON ANALYTICAL LABORATORY RESULTS FOR REPRESENTATIVE SAMPLES OF WPX WATER. RESULTS SHALL BE SUBMITTED TO THE COGCC WITHIN 45 DAYS OF APPROVAL OF THIS PLAN. ANALYTICAL LABORATORY ANALYSIS SHALL INCLUDE:
  - o -VOLATILE ORGANIC COMPOUNDS EPA METHOD 624 (GC/MS)
  - o -SEMI-VOLATILE ORGANIC COMPOUNDS EPA METHOD 625 (GC/MS)
  - o DISSOLVED METALS EPA METHOD 200.7 (ICP)
  - o DISSOLVED INORGANICS (NON-METALS) EPA METHOD 300.0 (IC)
    - Br, Cl, F, Nitrate/Nitrite, Sulfate
  - o GENERAL WATER QUALITY PARAMETERS
    - SPECIFIC CONDUCTANCE EPA METHOD 300.0 (IC)
    - HARDNESS EPA METHOD 130.1
    - TOTAL DISSOLVED SOLIDS EPA METHOD 160.1
    - pH EPA METHOD 150.2
- OPERATOR MUST IMPLEMENT BEST MANAGEMENT PRACTICES TO CONTAIN ANY UNINTENTIONAL RELEASE OF FLUIDS, INCLUDING ANY FLUIDS CONVEYED VIA TEMPORARY SURFACE PIPELINES.
- TERMINATION OF ACTIVITIES: BOTH ENCANA AND WPX SHALL NOTIFY THE COGCC VIA SUNDRY IMMEDIATELY UPON TERMINATION OF ACTIVITIES.
- ENCANA AND WPX WILL EACH SEPERATELY SUBMIT AN ANNUAL REPORT TO THE COGCC SUMMARIZING THE TRANSFER OF PRODUCTION WATER (BOTH AS

TRANSFER AND RECEIVING OPERATOR) DURING THE CALENDAR YEAR, AND INCLUDING LABORATORY ANALYTICAL RESULTS FOR REPRESENTATIVE SAMPLE(S) OF THE PRODUCTION WATER PROVIDED AS THE TRANSFER/RECEIVER. THE ANNUAL REPORT SHALL BE SUBMITTED ON OR BEFORE THE ANNIVERSARY OF THE FIRST DATE OF TRANSFER.





**Legend**

- Existing Water Line
- County Road
- Other Road

**Temporary Water Sharing Agreement**

**WPX Energy and Encana**



0 750 1,500 3,000 Feet



# HALLIBURTON

Rockies Lab Water Analysis Report  
District: Grand Junction

Tested By Jason  
Reported By Jason

## Customer and Well Information

Company WPX Well/Sample Name Ryan Gulch  
Report To Mark Mayo Date Received 3/28/2013  
Date Tested 3/28/2013

## Sample Physical Characteristics

Sample 1 W072  
Temperature 66.0 °F Resistivity 0.7 Ω m  
Specific Gravity 1.091 Conductivity 18.9 mS/cm  
pH 7.2 TDS 10200.0 mg/L  
Turbidity 162.0 FNU Color (observation) Clear

## Sample Chemical Characteristics

Anions		Cations	
Chloride	<u>5799</u> mg/L	Total Iron	<u>3.7</u> mg/L
Sulfate	<u>0</u> mg/L	Ferrous Iron	<u>0.1</u> mg/L
Carbonate	<u>0</u> mg/L	Potassium	<u>16</u> mg/L
Bicarbonate	<u>1965</u> mg/L	Calcium	<u>220</u> mg/L
Hydroxide	<u>0</u> mg/L	Magnesium	<u>105</u> mg/L
		Sodium (calculated)	<u>4037</u> mg/L

## Bacteria Serial Dilution

Bacteria Serial Dilution				Correlation of "Positive" Vials to Estimated Concentration of Bacteria		
Baseline				Number of "Positive" Vials		
				Estimated Bacteria/cc of Original Sample		
				0	0	
				1	1-10	or 10 <sup>1</sup>
				2	10-100	or 10 <sup>2</sup>
				3	100-1,000	or 10 <sup>3</sup>
				4	1,000-10,000	or 10 <sup>4</sup>
				5	10,000-100,000	or 10 <sup>5</sup>
				6	100,000-1,000,000	or 10 <sup>6</sup>
				7	1,000,000-10,000,000	or 10 <sup>7</sup>
				8	10,000,000-100,000,000	or 10 <sup>8</sup>

## General Comments

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# HALLIBURTON

Halliburton Energy Services  
The Rockies NWA Regional Laboratory  
Grand Junction, CO 970) 523-3692

## Water Analysis Report

### Contact Information

Company	Williams	Date Received	June 6, 2011
Reported To	Kyle Kohl	Date Tested	June 7, 2011
Reported By	Carter Tuttle	Tested By	Carter Tuttle

### Sample Physical Characteristics

Well Name	RGU 23-6 Frac Pad	Temperature	67 °F
Location		pH	7.3
Specific Gravity	1.010	Color	Lt Yellow
Corrected SG	1.011 at 60°F	Turbidity	90 FAU
TDS (calculated)	19274 ppm	Resistivity	0.67 Ω·m

### Sample Chemical Characteristics

Anions	Chloride	11088 mg/L	Cations	Total Iron	10.2 mg/L
	Sulfate	0 mg/L		Ferrous Iron	0.2 mg/L
	Bicarbonate	960 mg/L		Potassium	15 mg/L
	Carbonate	0 mg/L		Calcium	392 mg/L
	Hydroxide	0 mg/L		Magnesium	88 mg/L
				Sodium (calculated)	6913 mg/L

### General Comments

Sample ID W201 Conductivity 19.9mS, Salinity 13.0ppt, TDS 12,200ppm

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# HALLIBURTON

Halliburton Energy Services  
The Rockies NWA Regional Laboratory  
Grand Junction, CO 970) 523-3692

## Water Analysis Report

### Contact Information

Company	Williams	Date Received	June 6, 2011
Reported To	Kyle Kohl	Date Tested	June 7, 2011
Reported By	Carter Tuttle	Tested By	Carter Tuttle

### Sample Physical Characteristics

Well Name	33-24 Frac Pad	Temperature	67 °F
Location		pH	7.8
Specific Gravity	1.010	Color	Black
Corrected SG	1.011 at 60°F	Turbidity	See below
TDS (calculated)	13963 ppm	Resistivity	0.66 Ω·m

### Sample Chemical Characteristics

Anions	Chloride	7635 mg/L	Cations	Total Iron	1.8 mg/L
	Sulfate	140 mg/L		Ferrous Iron	1.6 mg/L
	Bicarbonate	980 mg/L		Potassium	84 mg/L
	Carbonate	0 mg/L		Calcium	440 mg/L
	Hydroxide	0 mg/L		Magnesium	12 mg/L
				Sodium (calculated)	4808 mg/L

### General Comments

Sample ID W200, Sample was treated with BE-7 so titration results could be observed. Turbidity exceeded test limits before BE-7. After BE-7 Turbidity was observed at 220 FAU. Conductivity 20.8mS, Salinity 13.9ppt, TDS 13,200ppm.

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