

State of Colorado  
Oil and Gas Conservation Commission

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



DOCUMENT  
#2221225

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  
11/7/2011

1. OGCC Operator Number: 96850	4. Contact Name: Karolina Blaney	Complete the Attachment Checklist OP OGCC
2. Name of Operator: Williams Production RMT	Phone: 970 683 2295	
3. Address: 1058 County Road 215 City: Parachute State: CO Zip: 81635	Fax: 970 285 9573	
5. API Number 05-103-10934	OGCC Facility ID Number 316596	Survey Plat
6. Well/Facility Name:	7. Well/Facility Number RGU 23-35-198	Directional Survey
8. Location (QtrQtr, Sec, Twp, Rng, Meridian): NESW-35-15-98W 06M		Surface Eqmpt Diagram
9. County: Rio Blanco	10. Field Name: Ryan Gulch	Technical Info Page
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"/> FNL/FSL <input type="checkbox"/> FEL/FWL
Change of Surface Footage to Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage from Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/>
Change of Bottomhole Footage to Exterior Section Lines:	<input type="checkbox"/> <input type="checkbox"/> 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	
<input type="checkbox"/> CHANGE SPACING UNIT	<input type="checkbox"/> Remove from surface bond
Formation Formation Code Spacing order number Unit Acreage Unit configuration	Signed surface use agreement attached
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):	<input type="checkbox"/> CHANGE WELL NAME
Effective Date:	From: NUMBER
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"/> Change Drilling Plans	<input type="checkbox"/> Repair Well
<input type="checkbox"/> Gross Interval Changed?	<input type="checkbox"/> Rule 502 variance requested
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other: Background
	<input type="checkbox"/> E&P Waste Disposal
	<input type="checkbox"/> Beneficial Reuse of E&P Waste
	<input type="checkbox"/> Status Update/Change of Remediation Plans
	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: Karolina Blaney Date: 11/7/2011 Email: Karolina.Blaney@Williams.com  
Print Name: Karolina Blaney Title: Environmental Specialist

COGCC Approved: Chris Caulfield Title: FOR Date: 11/16/2011  
CONDITIONS OF APPROVAL, IF ANY: Chris Caulfield

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: \_\_\_\_\_ API Number: \_\_\_\_\_

2. Name of Operator: \_\_\_\_\_ OGCC Facility ID # \_\_\_\_\_

3. Well/Facility Name: \_\_\_\_\_ Well/Facility Number: \_\_\_\_\_

4. Location (QtrQtr, Sec, Twp, Rng, Meridian): \_\_\_\_\_

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





## Legend

- Sample Location
- Existing Road
- Existing Pad Limit of Disturbance

**RGU 23-35-198**  
**Arsenic Background Sample Location Map**  
**T1S R98W, Section 35**

**October 26, 2011**







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Est. 1970

Karolina Blaney  
Williams  
1058 County Road 215  
Parachute, CO 81635

## Report Summary

Thursday October 13, 2011

Report Number: L540562

Samples Received: 10/08/11

Client Project:

Description: RGU 23-35-198 Soil Samples

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

T. Alan Harvill , ESC Representative

### Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - I-2327, CT - PH-0197, FL - E87487  
GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704, ND - R-140  
NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 00109, WV - 233  
AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032008A,  
TX - T104704245, OK-9915, PA - 68-02979

Accreditation is only applicable to the test methods specified on each scope of accreditation held by ESC Lab Sciences.

Note: The use of the preparatory EPA Method 3511 is not approved or endorsed by the CA ELAP.

This report may not be reproduced, except in full, without written approval from ESC Lab Sciences. Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

REPORT OF ANALYSIS

Karolina Blaney  
Williams  
1058 County Road 215  
Parachute, CO 81635

October 13, 2011

Date Received : October 08, 2011  
Description : RGU 23-35-198 Soil Samples  
Sample ID : RGU 23-35-198-CUT  
Collected By : TC  
Collection Date : 10/07/11 12:48

ESC Sample # : L540562-01

Site ID : RGU 23-35-198

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	10/11/11	1
Chromium, Trivalent	43.	2.0	mg/kg	Calc.	10/12/11	1
ORP	69.		mV	2580	10/12/11	1
pH	8.6		su	9045D	10/10/11	1
Sodium Adsorption Ratio	21.			Calc.	10/12/11	1
Specific Conductance	1600		umhos/cm	9050AMod	10/11/11	1
Mercury	BDL	0.020	mg/kg	7471	10/11/11	1
Arsenic	5.8	1.0	mg/kg	6010B	10/12/11	1
Barium	1100	0.25	mg/kg	6010B	10/12/11	1
Cadmium	0.70	0.25	mg/kg	6010B	10/12/11	1
Chromium	43.	0.50	mg/kg	6010B	10/12/11	1
Copper	15.	1.0	mg/kg	6010B	10/12/11	1
Lead	13.	0.25	mg/kg	6010B	10/12/11	1
Nickel	20.	1.0	mg/kg	6010B	10/12/11	1
Selenium	BDL	1.0	mg/kg	6010B	10/12/11	1
Silver	BDL	0.50	mg/kg	6010B	10/12/11	1
Zinc	47.	1.5	mg/kg	6010B	10/12/11	1
Benzene	BDL	0.0025	mg/kg	8021/8015	10/13/11	5
Toluene	BDL	0.025	mg/kg	8021/8015	10/13/11	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	10/13/11	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	10/13/11	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	10/13/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	99.7		% Rec.	8021/8015	10/13/11	5
a,a,a-Trifluorotoluene(PID)	104.		% Rec.	8021/8015	10/13/11	5
TPH (GC/FID) High Fraction	56.	4.0	mg/kg	3546/DRO	10/10/11	1
Surrogate recovery(%)						
o-Terphenyl	71.2		% Rec.	3546/DRO	10/10/11	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	10/11/11	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	10/11/11	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	10/11/11	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	10/11/11	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	10/11/11	1

BDL - Below Detection Limit  
Det. Limit - Practical Quantitation Limit(PQL)  
L540562-01 (PH) - 8.59@20.1c



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Parachute, CO 81635

October 13, 2011

Date Received : October 08, 2011  
Description : RGU 23-35-198 Soil Samples  
Sample ID : RGU 23-35-198-CUT  
Collected By : TC  
Collection Date : 10/07/11 12:48

ESC Sample # : L540562-01

Site ID : RGU 23-35-198

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	10/11/11	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	10/11/11	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	10/11/11	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	10/11/11	1
Fluorene	0.011	0.0060	mg/kg	8270C-SIM	10/11/11	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	10/11/11	1
Naphthalene	0.027	0.0060	mg/kg	8270C-SIM	10/11/11	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	10/11/11	1
Surrogate Recovery						
Nitrobenzene-d5	96.4		% Rec.	8270C-SIM	10/11/11	1
2-Fluorobiphenyl	78.9		% Rec.	8270C-SIM	10/11/11	1
p-Terphenyl-d14	73.5		% Rec.	8270C-SIM	10/11/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

Note:

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Reported: 10/13/11 16:54 Printed: 10/13/11 16:55  
L540562-01 (PH) - 8.59@20.1c

REPORT OF ANALYSIS

Karolina Blaney  
Williams  
1058 County Road 215  
Parachute, CO 81635

October 13, 2011

Date Received : October 08, 2011  
Description : RGU 23-35-198 Soil Samples  
Sample ID : RGU 23-35-198-RES  
Collected By : TC  
Collection Date : 10/07/11 12:30

ESC Sample # : L540562-02

Site ID : RGU 23-35-198

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Chromium, Hexavalent	BDL	2.0	mg/kg	3060A/7196A	10/11/11	1
Chromium, Trivalent	65.	2.0	mg/kg	Calc.	10/12/11	1
ORP	76.		mV	2580	10/12/11	1
pH	8.9		su	9045D	10/10/11	1
Sodium Adsorption Ratio	21.			Calc.	10/12/11	1
Specific Conductance	1300		umhos/cm	9050AMod	10/11/11	1
Mercury	BDL	0.020	mg/kg	7471	10/11/11	1
Arsenic	4.8	1.0	mg/kg	6010B	10/12/11	1
Barium	250	0.25	mg/kg	6010B	10/12/11	1
Cadmium	0.69	0.25	mg/kg	6010B	10/12/11	1
Chromium	65.	0.50	mg/kg	6010B	10/12/11	1
Copper	9.1	1.0	mg/kg	6010B	10/12/11	1
Lead	11.	0.25	mg/kg	6010B	10/12/11	1
Nickel	22.	1.0	mg/kg	6010B	10/12/11	1
Selenium	BDL	1.0	mg/kg	6010B	10/12/11	1
Silver	BDL	0.50	mg/kg	6010B	10/12/11	1
Zinc	44.	1.5	mg/kg	6010B	10/12/11	1
Benzene	BDL	0.0025	mg/kg	8021/8015	10/13/11	5
Toluene	BDL	0.025	mg/kg	8021/8015	10/13/11	5
Ethylbenzene	BDL	0.0025	mg/kg	8021/8015	10/13/11	5
Total Xylene	BDL	0.0075	mg/kg	8021/8015	10/13/11	5
TPH (GC/FID) Low Fraction	BDL	0.50	mg/kg	GRO	10/13/11	5
Surrogate Recovery-%						
a,a,a-Trifluorotoluene(FID)	99.9		% Rec.	8021/8015	10/13/11	5
a,a,a-Trifluorotoluene(PID)	106.		% Rec.	8021/8015	10/13/11	5
TPH (GC/FID) High Fraction	13.	4.0	mg/kg	3546/DRO	10/10/11	1
Surrogate recovery(%)						
o-Terphenyl	68.7		% Rec.	3546/DRO	10/10/11	1
Polynuclear Aromatic Hydrocarbons						
Anthracene	BDL	0.0060	mg/kg	8270C-SIM	10/10/11	1
Acenaphthene	BDL	0.0060	mg/kg	8270C-SIM	10/10/11	1
Benzo(a)anthracene	BDL	0.0060	mg/kg	8270C-SIM	10/10/11	1
Benzo(a)pyrene	BDL	0.0060	mg/kg	8270C-SIM	10/10/11	1
Benzo(b)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	10/10/11	1

BDL - Below Detection Limit  
Det. Limit - Practical Quantitation Limit(PQL)  
L540562-02 (PH) - 8.89@20.1c



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# REPORT OF ANALYSIS

Karolina Blaney  
Williams  
1058 County Road 215  
Parachute, CO 81635

October 13, 2011

Date Received : October 08, 2011  
Description : RGU 23-35-198 Soil Samples  
Sample ID : RGU 23-35-198-RES  
Collected By : TC  
Collection Date : 10/07/11 12:30

ESC Sample # : L540562-02

Site ID : RGU 23-35-198

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Benzo(k)fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	10/10/11	1
Chrysene	BDL	0.0060	mg/kg	8270C-SIM	10/10/11	1
Dibenz(a,h)anthracene	BDL	0.0060	mg/kg	8270C-SIM	10/10/11	1
Fluoranthene	BDL	0.0060	mg/kg	8270C-SIM	10/10/11	1
Fluorene	BDL	0.0060	mg/kg	8270C-SIM	10/10/11	1
Indeno(1,2,3-cd)pyrene	BDL	0.0060	mg/kg	8270C-SIM	10/10/11	1
Naphthalene	BDL	0.0060	mg/kg	8270C-SIM	10/10/11	1
Pyrene	BDL	0.0060	mg/kg	8270C-SIM	10/10/11	1
Surrogate Recovery						
Nitrobenzene-d5	66.5		% Rec.	8270C-SIM	10/10/11	1
2-Fluorobiphenyl	72.4		% Rec.	8270C-SIM	10/10/11	1
p-Terphenyl-d14	70.7		% Rec.	8270C-SIM	10/10/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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L540562-02 (PH) - 8.89@20.1c





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REPORT OF ANALYSIS

Karolina Blaney  
Williams  
1058 County Road 215  
Parachute, CO 81635

October 13, 2011

Date Received : October 08, 2011  
Description : RGU 23-35-198 Soil Samples  
Sample ID : RGU 23-35-198-B-1  
Collected By : TC  
Collection Date : 10/07/11 10:42

ESC Sample # : L540562-03

Site ID : RGU 23-35-198

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	7.0	1.0	mg/kg	6010B	10/12/11	1

BDL - Below Detection Limit

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Parachute, CO 81635

October 13, 2011

Date Received : October 08, 2011  
Description : RGU 23-35-198 Soil Samples  
Sample ID : RGU 23-35-198-B-2  
Collected By : TC  
Collection Date : 10/07/11 11:11

ESC Sample # : L540562-04

Site ID : RGU 23-35-198

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	6.8	1.0	mg/kg	6010B	10/12/11	1

BDL - Below Detection Limit

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Karolina Blaney  
Williams  
1058 County Road 215  
Parachute, CO 81635

October 13, 2011

Date Received : October 08, 2011  
Description : RGU 23-35-198 Soil Samples  
Sample ID : RGU 23-35-198-B-3  
Collected By : TC  
Collection Date : 10/07/11 11:25

ESC Sample # : L540562-05

Site ID : RGU 23-35-198

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	4.6	1.0	mg/kg	6010B	10/12/11	1

BDL - Below Detection Limit

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Karolina Blaney  
Williams  
1058 County Road 215  
Parachute, CO 81635

October 13, 2011

Date Received : October 08, 2011  
Description : RGU 23-35-198 Soil Samples  
Sample ID : RGU 23-35-198-B-4  
Collected By : TC  
Collection Date : 10/07/11 11:48

ESC Sample # : L540562-06

Site ID : RGU 23-35-198

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	4.3	1.0	mg/kg	6010B	10/12/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Karolina Blaney  
Williams  
1058 County Road 215  
Parachute, CO 81635

October 13, 2011

Date Received : October 08, 2011  
Description : RGU 23-35-198 Soil Samples  
Sample ID : RGU 23-35-198-B-5  
Collected By : TC  
Collection Date : 10/07/11 12:08

ESC Sample # : L540562-07

Site ID : RGU 23-35-198

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Arsenic	5.7	1.0	mg/kg	6010B	10/12/11	1

BDL - Below Detection Limit

Det. Limit - Practical Quantitation Limit(PQL)

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