

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
Received			
10/24/2011			
Rifle 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 : 100185	4. Contact Name : RUTHANN MORSS
2. Name Of Operator : EnCana Oil & Gas (USA) Inc.	Phone : 720-876-5060
3. Address : 370 17th Street, Suite 1700	Fax : 720-876-6060
City : Denver State : CO Zip : 80202	
5. API Number : 05-045-12515	OGCC Facility ID Number
6. Well/Facility Name : Juniper	7. Well/Facility Number : 1-13A (M1E)
8. Location (QtrQtr, Sec, Twp, Rng, Meridian) : SWSW Sec 1 T7S - R92W 6th PM	
9. County : GARFIELD	10. Field Name : Mamm Creek
11. Federal, Indian or State Lease Number : COC55972X	

Complete the Attachment
Checklist

	OP	OGCC
Survey Plat	<input type="checkbox"/>	<input type="checkbox"/>
Directional Survey	<input type="checkbox"/>	<input type="checkbox"/>
Surface Eqpm Diagram	<input type="checkbox"/>	<input type="checkbox"/>
Technical Info Page	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Other	<input type="checkbox"/>	<input type="checkbox"/>

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)	
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:	
Bottom hole location Qtr/Qtr, Sec, Twp, Rng, Mer	
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
	Surface owner consultation date:
attach directional survey	
GPS DATA:	
Date of Measurement	PDOP Reading
Instrument Operator's Name	
<input type="checkbox"/> CHANGE SPACING UNIT	
Formation	Formation Code
Spacing order number	Unit Acreage
Unit configuration	
<input type="checkbox"/> Remove from surface bond	
Signed surface use agreement attached	
<input type="checkbox"/> CHANGE OF OPERATOR (prior to drilling):	
Effective Date :	
Plugging Bond : <input type="checkbox"/> Blanket <input type="checkbox"/> Individual	
<input type="checkbox"/> CHANGE WELL NAME	
From :	NUMBER
To :	
Effective Date :	
<input type="checkbox"/> ABANDONED LOCATION:	
Was location ever built? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Is site ready for inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Date Ready for Inspection:	
<input type="checkbox"/> NOTICE OF CONTINUED SHUT IN STATUS	
Date well shut in or temporarily abandoned:	
Has Production Equipment been removed from site? <input type="checkbox"/> Yes <input type="checkbox"/> No	
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 checked="" type="checkbox"/> Report of Work Done
Approximate Start Date :		Date Work Completed : 01/28/2011
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 for spills and Releases
<input type="checkbox"/> Casing/Cementing Program Change	<input checked="" type="checkbox"/> Other : compositional/isotopic data	

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

Signed: Ruthann Morss Date: 10/20/2011

Email: ruthann.morss@encana.com

Print Name : RUTHANN MORSS

Title : REGULATORY ANALYST

COGCC Approved: _____ Title: _____ Date: 10/25/2011

CONDITIONS OF APPROVAL, IF ANY:

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY
Received
10/24/2011
Rifle COGCC

1. OGCC Operator Number: 100185	API Number: S
2. Name of Operator: EnCana Oil & Gas (USA) Inc.	OGCC Facility ID #
3. Well/Facility Name: Juniper 1-13A (M1E)	Well/Facility Number: 1-13A (M1E)
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**
Compositional and isotopic reports of bradenhead and casing gas analysis for the referenced well are attached.

A report comparing the sample data is attached.

QUESTAR APPLIED TECHNOLOGY

1210 D. Street, Rock Springs, Wyoming 82901

(307) 352-7292

LIMS ID:	N/A	Description:	Juniper 1-13A Casing
Analysis Date/Time:	01/04/2011 8:41 AM	Field:	Rifle
Analyst Initials:	AST	ML#:	EnCana/ MIE
Instrument ID:	Instrument 1	GC Method:	Quesbtex
Data File:	QPC88.D		
Date Sampled:	12/20/2010		

Component	Mol%	Wt%	LV%
Methane	75.2966	59.5169	71.4280
Ethane	9.1250	13.5190	13.6947
Propane	3.6432	7.9154	5.6217
Isobutane	0.6672	1.9105	1.2221
n-Butane	0.5727	1.6401	1.0111
Neopentane	0.0056	0.0199	0.0120
Isopentane	0.1336	0.4749	0.2738
n-Pentane	0.0791	0.2812	0.1605
2,2-Dimethylbutane	0.0021	0.0088	0.0049
2,3-Dimethylbutane	0.0054	0.0227	0.0123
2-Methylpentane	0.0174	0.0738	0.0404
3-Methylpentane	0.0083	0.0352	0.0190
n-Hexane	0.0168	0.0712	0.0386
Heptanes	0.0284	0.1321	0.0641
Octanes	0.0037	0.0206	0.0101
Nonanes	0.0006	0.0036	0.0017
Decanes plus	0.0003	0.0021	0.0010
Nitrogen	10.3863	14.3353	6.3766
Carbon Dioxide	0.0077	0.0167	0.0074
Oxygen	0.0000	0.0000	0.0000
Hydrogen Sulfide	0.0000	0.0000	0.0000
Total	100.0000	100.0000	100.0000
Global Properties		Units	
Gross BTU/Real CF	1072.2	BTU/SCF at 60°F and 14.73 psia	
Sat. Gross BTU/Real CF	1054.8	BTU/SCF at 60°F and 14.73 psia	
Gas Compressibility (Z)	0.9974		
Specific Gravity	0.7024	air=1	
Avg Molecular Weight	20.297	gm/mole	
Propane GPM	0.998465	gal/MCF	
Butane GPM	0.397865	gal/MCF	
Gasoline GPM	0.111441	gal/MCF	
26# Gasoline GPM	0.291688	gal/MCF	
Total GPM	1.507929	gal/MCF	
Base Mol%	100.699	%v/v	
Sample Temperature:	N/A	°F	
Sample Pressure:	375	psig	
H2S Length of Stain Tube	N/A	ppm	

Component	Mol%	Wt%	LV%
Benzene	0.0004	0.0016	0.0006
Toluene	0.0007	0.0030	0.0012
Ethylbenzene	0.0000	0.0000	0.0000
M&P Xylene	0.0002	0.0012	0.0005
O-Xylene	0.0000	0.0000	0.0000
2,2,4-Trimethylpentane	0.0009	0.0051	0.0025
Cyclopentane	0.0000	0.0000	0.0000
Cyclohexane	0.0048	0.0200	0.0092
Methylcyclohexane	0.0068	0.0330	0.0154
Description:	Juniper 1-13A Casing		

GRI GlyCalc Information

Component	Mol%	Wt%	LV%
Carbon Dioxide	0.0077	0.0167	0.0074
Hydrogen Sulfide	0.0000	0.0000	0.0000
Nitrogen	10.3863	14.3353	6.3766
Methane	75.2966	59.5169	71.4280
Ethane	9.1250	13.5190	13.6947
Propane	3.6432	7.9154	5.6217
Isobutane	0.6672	1.9105	1.2221
n-Butane	0.5727	1.6401	1.0111
Isopentane	0.1392	0.4948	0.2858
n-Pentane	0.0791	0.2812	0.1605
Cyclopentane	0.0000	0.0000	0.0000
n-Hexane	0.0168	0.0712	0.0386
Cyclohexane	0.0048	0.0200	0.0092
Other Hexanes	0.0332	0.1405	0.0766
Heptanes	0.0148	0.0694	0.0352
Methylcyclohexane	0.0068	0.0330	0.0154
2,2,4 Trimethylpentane	0.0009	0.0051	0.0025
Benzene	0.0004	0.0016	0.0006
Toluene	0.0007	0.0030	0.0012
Ethylbenzene	0.0000	0.0000	0.0000
Xylenes	0.0002	0.0012	0.0005
C8+ Heavies	0.0044	0.0251	0.0123
Subtotal	100.0000	100.0000	100.0000
Oxygen	0.0000	0.0000	0.0000
Total	100.0000	100.0000	100.0000

QUESTAR APPLIED TECHNOLOGY

1210 D. Street, Rock Springs, Wyoming 82901

(307) 352-7292

LIMS ID:	N/A	Description:	Juniper 1-13A Bradenhead
Analysis Date/Time:	01/04/2011 9:31 AM	Field:	Rifle
Analyst Initials:	AST	ML#:	EnCana
Instrument ID:	Instrument 1	GC Method:	Quesbtex
Data File:	QPC89.D		
Date Sampled:	12/20/2010		

Component	Mol%	Wt%	LV%
Methane	85.9577	71.7257	79.4359
Ethane	7.2737	11.3761	10.6345
Propane	3.3895	7.7741	5.0951
Isobutane	0.8206	2.4808	1.4644
n-Butane	0.7735	2.3385	1.3304
Neopentane	0.0124	0.0466	0.0259
Isopentane	0.2687	1.0085	0.5366
n-Pentane	0.1750	0.6569	0.3459
2,2-Dimethylbutane	0.0074	0.0330	0.0168
2,3-Dimethylbutane	0.0136	0.0611	0.0305
2-Methylpentane	0.0453	0.2030	0.1025
3-Methylpentane	0.0226	0.1015	0.0504
n-Hexane	0.0454	0.2033	0.1017
Heptanes	0.0575	0.2788	0.1243
Octanes	0.0060	0.0356	0.0164
Nonanes	0.0027	0.0175	0.0076
Decanes plus	0.0008	0.0060	0.0027
Nitrogen	1.1157	1.6257	0.6673
Carbon Dioxide	0.0119	0.0273	0.0111
Oxygen	0.0000	0.0000	0.0000
Hydrogen Sulfide	0.0000	0.0000	0.0000
Total	100.0000	100.0000	100.0000

Global Properties

Units

Gross BTU/Real CF	1168.4	BTU/SCF at 60°F and 14.73 psia
Sat. Gross BTU/Real CF	1149.3	BTU/SCF at 60°F and 14.73 psia
Gas Compressibility (Z)	0.9971	
Specific Gravity	0.6653	air=1
Avg Molecular Weight	19.226	gm/mole
Propane GPM	0.928936	gal/MCF
Butane GPM	0.511077	gal/MCF
Gasoline GPM	0.243547	gal/MCF
26# Gasoline GPM	0.487155	gal/MCF
Total GPM	1.683937	gal/MCF
Base Mol%	97.499	%v/v

Sample Temperature:	N/A	°F
Sample Pressure:	45	psig
H2S Length of Stain Tube	N/A	ppm

Component	Mol%	Wt%	LV%
Benzene	0.0012	0.0049	0.0019
Toluene	0.0012	0.0059	0.0023
Ethylbenzene	0.0001	0.0007	0.0003
M&P Xylene	0.0009	0.0050	0.0019
O-Xylene	0.0001	0.0007	0.0003
2,2,4-Trimethylpentane	0.0019	0.0113	0.0052
Cyclopentane	0.0000	0.0000	0.0000
Cyclohexane	0.0115	0.0501	0.0213
Methylcyclohexane	0.0122	0.0625	0.0268
Description:	Juniper 1-13A Bradenhead		

GRI GlyCalc Information

Component	Mol%	Wt%	LV%
Carbon Dioxide	0.0119	0.0273	0.0111
Hydrogen Sulfide	0.0000	0.0000	0.0000
Nitrogen	1.1157	1.6257	0.6673
Methane	85.9577	71.7257	79.4359
Ethane	7.2737	11.3761	10.6345
Propane	3.3895	7.7741	5.0951
Isobutane	0.8206	2.4808	1.4644
n-Butane	0.7735	2.3385	1.3304
Isopentane	0.2811	1.0551	0.5625
n-Pentane	0.1750	0.6569	0.3459
Cyclopentane	0.0000	0.0000	0.0000
n-Hexane	0.0454	0.2033	0.1017
Cyclohexane	0.0115	0.0501	0.0213
Other Hexanes	0.0889	0.3986	0.2002
Heptanes	0.0295	0.1441	0.0668
Methylcyclohexane	0.0122	0.0625	0.0268
2,2,4 Trimethylpentane	0.0019	0.0113	0.0052
Benzene	0.0012	0.0049	0.0019
Toluene	0.0012	0.0059	0.0023
Ethylbenzene	0.0001	0.0007	0.0003
Xylenes	0.0010	0.0057	0.0022
C8+ Heavies	0.0084	0.0527	0.0242
Subtotal	100.0000	100.0000	100.0000
Oxygen	0.0000	0.0000	0.0000
Total	100.0000	100.0000	100.0000

IsoTech Gas Data

Job 14557

Project: South Piceance Field

33 Produced Gas samples Collected in IsoTubes

IsoTech Lab No.	Sample Name	Sample Date	Sampling Point	GC Analysis		He	H ₂	Ar	O ₂	CO ₂	N ₂	CO	C ₁	C ₂	C ₂ H ₄	C ₃	iC ₄	nC ₄	iC ₅	nC ₅	C ₆ +	Mass Spec Date	δ ¹³ C ₁	δDC ₁	δ ¹³ C ₂	δ ¹³ C ₃	Specific Gravity	BTU	Comments
				Date	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
202490	MIE / Jumper 1-13A #8	12/20/2010	Casing	01/28/2011	0.0045	0.0247	0.0727	0.02	0.005	10.76	nd	74.83	9.16	nd	3.55	0.662	0.573	0.135	0.08	0.1	0.2715/2011	-43.28	-206.8	-28.39	-26.29	0.703	1066		
202491	MIE / Jumper 1-13A #27	12/20/2010	Bradenthead	01/28/2011	0.0164	0.0071	0.0066	0.022	0.006	0.87	nd	86.14	7.23	nd	3.3	0.656	0.797	0.286	0.187	0.274	0.2715/2011	-42.08	-202.1	-28.89	-26.64	0.664	1173		
202498	A15 / Burger 15-ID #265	12/22/2010	Bradenthead	01/28/2011	0.0308	0.0047	0.0145	0.053	0.006	2.14	nd	97.49	0.167	nd	0.0441	0.0093	0.0703	0.0046	0.0043	0.0235	0.2717/2011	-52.67	-196.9			0.565	995		

Chemical analysis based on standards accurate to within 2%
nd = not detected, na = not analyzed