

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

OIL CONS. DIV DIST. 3

JUL 28 2016

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company	Encana Oil and Gas	Contact	Warren Scott
Address	6584 E. Main Farmington NM 87402	Telephone No.	505-599-2407
Facility Name	Escrito Gallup Unit 22	Facility Type	
Surface Owner	BLM	Mineral Owner	Federal
		API No.	14-08-0001-869

LOCATION OF RELEASE

30-039-23230

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	18	24N	7W					Rio Arriba

Latitude _____ Longitude _____

NATURE OF RELEASE

Type of Release	Crude Oil	Volume of Release	7 bbls	Volume Recovered	7 bbls
Source of Release	Separator blow off valve	Date and Hour of Occurrence	7-12-2016 12am	Date and Hour of Discovery	7-12-2016 2pm
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	NMOCD Vanessa Fields BLM Katherina Diemer		
By Whom?	Warren Scott	Date and Hour	7-12-2016 4pm		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Adjacent well shut in resulting in release at location through pop off valve.

Describe Area Affected and Cleanup Action Taken.*
The ground and vegetation directly east of separator was effected for roughly 1500 feet. Vegetation was cleaned with water and simple green. Contaminated soil was disposed of properly through IEL.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Warren Scott</i>	OIL CONSERVATION DIVISION	
Printed Name: Warren Scott	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: Field Safety	Approval Date: 7/28/2016	Expiration Date:
E-mail Address: warren.scott@encana.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 7-27-16	Phone: 505-599-2407	

* Attach Additional Sheets If Necessary

NUF1619626494

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Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

July 26, 2016

Warren Scott
Encana Oil and Gas
6584 E Main
Farmington, NM 87402
TEL: (505) 386-9525
FAX

RE: Escrito Gallup Unit 22

OrderNo.: 1607861

Dear Warren Scott:

Hall Environmental Analysis Laboratory received 2 sample(s) on 7/19/2016 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

A handwritten signature in black ink, appearing to read "Andy Freeman", is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1607861

Date Reported: 7/26/2016

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Encana Oil and Gas

Client Sample ID: SC1 Separator

Project: Escrito Gallup Unit 22

Collection Date: 7/18/2016 9:30:00 AM

Lab ID: 1607861-001

Matrix: SOIL

Received Date: 7/19/2016 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	30	9.6		mg/Kg	1	7/22/2016 8:00:15 PM	26500
Surr: DNOP	106	70-130		%Rec	1	7/22/2016 8:00:15 PM	26500
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	7/20/2016 11:42:33 PM	26468
Surr: BFB	102	80-120		%Rec	1	7/20/2016 11:42:33 PM	26468
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.097		mg/Kg	1	7/20/2016 11:42:33 PM	26468
Benzene	ND	0.024		mg/Kg	1	7/20/2016 11:42:33 PM	26468
Toluene	ND	0.049		mg/Kg	1	7/20/2016 11:42:33 PM	26468
Ethylbenzene	ND	0.049		mg/Kg	1	7/20/2016 11:42:33 PM	26468
Xylenes, Total	ND	0.097		mg/Kg	1	7/20/2016 11:42:33 PM	26468
Surr: 4-Bromofluorobenzene	95.8	80-120		%Rec	1	7/20/2016 11:42:33 PM	26468

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Analytical ReportLab Order **1607861**

Date Reported: 7/26/2016

Hall Environmental Analysis Laboratory, Inc.**CLIENT:** Encana Oil and Gas**Client Sample ID:** SC2 Brush**Project:** Escrito Gallup Unit 22**Collection Date:** 7/18/2016 9:45:00 AM**Lab ID:** 1607861-002**Matrix:** SOIL**Received Date:** 7/19/2016 8:45:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	19	9.8		mg/Kg	1	7/21/2016 6:43:08 PM	26500
Surr: DNOP	114	70-130		%Rec	1	7/21/2016 6:43:08 PM	26500
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.6		mg/Kg	1	7/22/2016 2:16:39 AM	26468
Surr: BFB	102	80-120		%Rec	1	7/22/2016 2:16:39 AM	26468
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Methyl tert-butyl ether (MTBE)	ND	0.093		mg/Kg	1	7/22/2016 2:16:39 AM	26468
Benzene	ND	0.023		mg/Kg	1	7/22/2016 2:16:39 AM	26468
Toluene	ND	0.046		mg/Kg	1	7/22/2016 2:16:39 AM	26468
Ethylbenzene	ND	0.046		mg/Kg	1	7/22/2016 2:16:39 AM	26468
Xylenes, Total	ND	0.093		mg/Kg	1	7/22/2016 2:16:39 AM	26468
Surr: 4-Bromofluorobenzene	97.7	80-120		%Rec	1	7/22/2016 2:16:39 AM	26468

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:	*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
	D	Sample Diluted Due to Matrix	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
	ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
	R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
	S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1607861

26-Jul-16

Client: Encana Oil and Gas
Project: Escrito Gallup Unit 22

Sample ID	LCS-26500		SampType:	LCS		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	LCSS		Batch ID:	26500		RunNo:	35868				
Prep Date:	7/20/2016		Analysis Date:	7/21/2016		SeqNo:	1111810		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	49	10	50.00	0	98.1	62.6	124				
Surr: DNOP	5.3		5.000		106	70	130				

Sample ID	MB-26500		SampType:	MBLK		TestCode:	EPA Method 8015M/D: Diesel Range Organics				
Client ID:	PBS		Batch ID:	26500		RunNo:	35868				
Prep Date:	7/20/2016		Analysis Date:	7/21/2016		SeqNo:	1111811		Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Diesel Range Organics (DRO)	ND	10									
Surr: DNOP	9.5		10.00		94.8	70	130				

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1607861

26-Jul-16

Client: Encana Oil and Gas
Project: Escrito Gallup Unit 22

Sample ID	MB-26468	SampType	MBLK	TestCode	EPA Method 8015D: Gasoline Range					
Client ID	PBS	Batch ID	26468	RunNo	35833					
Prep Date	7/19/2016	Analysis Date	7/20/2016	SeqNo	1109484	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	1000		1000		102	80	120			

Sample ID	LCS-26468	SampType	LCS	TestCode	EPA Method 8015D: Gasoline Range					
Client ID	LCSS	Batch ID	26468	RunNo	35833					
Prep Date	7/19/2016	Analysis Date	7/20/2016	SeqNo	1109485	Units	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	106	80	120			
Surr: BFB	1100		1000		115	80	120			

Qualifiers:

* Value exceeds Maximum Contaminant Level.
D Sample Diluted Due to Matrix
H Holding times for preparation or analysis exceeded
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank
E Value above quantitation range
J Analyte detected below quantitation limits
P Sample pH Not In Range
RL Reporting Detection Limit
W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1607861

26-Jul-16

Client: Encana Oil and Gas
Project: Escrito Gallup Unit 22

Sample ID	MB-26468	SampType:	MBLK	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	PBS	Batch ID:	26468	RunNo:	35833					
Prep Date:	7/19/2016	Analysis Date:	7/20/2016	SeqNo:	1109545	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	ND	0.10								
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	1.0		1.000		100	80	120			

Sample ID	LCS-26468	SampType:	LCS	TestCode:	EPA Method 8021B: Volatiles					
Client ID:	LCSS	Batch ID:	26468	RunNo:	35833					
Prep Date:	7/19/2016	Analysis Date:	7/20/2016	SeqNo:	1109546	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Methyl tert-butyl ether (MTBE)	0.95	0.10	1.000	0	95.2	61	143			
Benzene	0.99	0.025	1.000	0	98.7	75.3	123			
Toluene	0.97	0.050	1.000	0	96.6	80	124			
Ethylbenzene	0.99	0.050	1.000	0	99.1	82.8	121			
Xylenes, Total	2.9	0.10	3.000	0	96.9	83.9	122			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level. | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | E Value above quantitation range |
| H Holding times for preparation or analysis exceeded | J Analyte detected below quantitation limits |
| ND Not Detected at the Reporting Limit | P Sample pH Not In Range |
| R RPD outside accepted recovery limits | RL Reporting Detection Limit |
| S % Recovery outside of range due to dilution or matrix | W Sample container temperature is out of limit as specified |



HALL ENVIRONMENTAL ANALYSIS LABORATORY
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: ENCANA OIL AND GAS

Work Order Number: 1607861

RcptNo: 1

Received by/date

SA 07/19/16

Logged By: Lindsay Mangin

7/19/2016 8:45:00 AM

Lindsay Mangin

Completed By: Lindsay Mangin

7/19/2016 9:10:29 AM

Lindsay Mangin

Reviewed By:

J 07/19/16

Chain of Custody

1. Custody seals intact on sample bottles? Yes ☐ No ☐ Not Present ☒
2. Is Chain of Custody complete? Yes ☒ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Was an attempt made to cool the samples? Yes ☒ No ☐ NA ☐
5. Were all samples received at a temperature of $>0^{\circ}\text{C}$ to 6.0°C ? Yes ☒ No ☐ NA ☐
6. Sample(s) in proper container(s)? Yes ☒ No ☐
7. Sufficient sample volume for indicated test(s)? Yes ☒ No ☐
8. Are samples (except VOA and ONG) properly preserved? Yes ☒ No ☐
9. Was preservative added to bottles? Yes ☐ No ☒ NA ☐
10. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☒
11. Were any sample containers received broken? Yes ☐ No ☒
12. Does paperwork match bottle labels?
(Note discrepancies on chain of custody) Yes ☒ No ☐
13. Are matrices correctly identified on Chain of Custody? Yes ☒ No ☐
14. Is it clear what analyses were requested? Yes ☒ No ☐
15. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes ☒ No ☐
- # of preserved bottles checked for pH: _____
(<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

16. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☒

Person Notified: _____

Date: _____

By Whom: _____

Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

17. Additional remarks:

18. Cooler Information

Cooler No	Temp $^{\circ}\text{C}$	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.1	Good	Yes			

Client: Encana Oil & Gas

Mailing Address: 6584 E Main
Formington, NM 87402

Phone #: 505-386-9525

E-mail or Fax #: W.Gillen.Scott@encana.com

4/QC Package:

Standard ☐ Level 4 (Full Validation)

Accreditation

NELAP ☐ Other _____

EDD (Type)

Sample Temperature: 4.1

[illegible]

ate:	Time:	Relinquished by:	Received by:	Date	Time
8/11	11:10	[Signature]	[Signature]	7/18/16	11:10
ate:	Time:	Relinquished by:	Received by:	Date	Time
8/11	1821	[Signature]	[Signature]	07/19/16	0845

Remarks:

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.