

Page 1 of 33
Received by OGD: 4/10/2023 7:19:22 AM
Released to Imaging: 4/10/2023 12:18:01 PM

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

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 EOG Y Resources, Inc.	OGRID Number 25575	Contact Robert Asher
Address 104 S. 4 th Street	Telephone No. 575-748-1471	
Facility Name Voight AJD Com Battery	Facility Type Battery	
Surface Owner Fee	Mineral Owner Fee	API No.

LOCATION OF RELEASE

Unit Letter D	Section 29	Township 19S	Range 25E	Feet from the 660	North/South Line North	Feet from the 660	East/West Line West	County Eddy
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Latitude 32.63719 Longitude 104.51278

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 15 B/PW	Volume Recovered 5 BPW
Source of Release Poly to steel transition	Date and Hour of Occurrence 5/3/2017; AM	Date and Hour of Discovery 5/3/2017; AM
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? NA	
By Whom? NA	Date and Hour NA	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A poly to steel transition came apart on the discharge side of the pump (pump not running) causing the release. Closed valves to isolate the leak, vacuum truck(s) and roustabout crews were called.

Describe Area Affected and Cleanup Action Taken.*

An approximate area of 5' X 75', south edge of battery. Remaining produced water was recovered using a vacuum truck. Roustabout crew repaired the line, a backhoe scraped approximately 12" of impacted soils, hauled to an approved NMOCD facility. Vertical and horizontal delineation samples will be taken and analysis ran for TPH & BTEX. If initial analytical results for TPH & BTEX are under RRAL's (site ranking is 0) a Final Report, C-141 will be submitted to the OCD requesting closure. **Depth to Ground Water > 100' (approximately 222', Section 30, T19S-R25E per NMOSE), Wellhead Protection Area: No, Distance to Surface Water Body: > 1000', SITE RANKING IS 0. Based off of the removal of impacted soils and enclosed analytical results, EOG Y requests closure.**

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:



Printed Name: Robert Asher

Title: Environmental Supervisor

E-mail Address: bob_asher@cogresources.com

Date: November 20, 2018

Phone: 575-748-4217

Attach Additional Sheets If Necessary

OIL CONSERVATION DIVISION

Approved by Environmental Specialist:

Ashley Maxwell

Approval Date: 4/10/2023

Expiration Date:

Conditions of Approval:

Attached ☐

2RP-4226

Voight A/D Com Battery (NDDUP 100)

Section 29, T19S-R25E
Eddy County, New Mexico

Legend

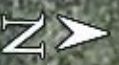
- Voight A/D Com Battery (NDDUP 100)

Voight A/D Com Battery (NDDUP 100)

29

Google Earth

2000 ft





New Mexico Office of the State Engineer

Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE)						(NAD83 UTM in meters)	
		(quarters are smallest to largest)						X	Y
	RA 03942	Q64	Q16	Q4	Sec	Tws	Rng		
		3	2	4	30	19S	25E	545141	3610277*

Driller License: 62	Driller Company: BEATTY, J.R.		
Driller Name:			
Drill Start Date: 10/03/1958	Drill Finish Date: 10/08/1958	Plug Date:	
Log File Date: 10/20/1958	PCW Rcv Date:	Source: Shallow	
Pump Type:	Pipe Discharge Size:	Estimated Yield:	
Casing Size:	Depth Well: 270 feet	Depth Water:	222 feet

*UTM location was derived from PLSS - see Help

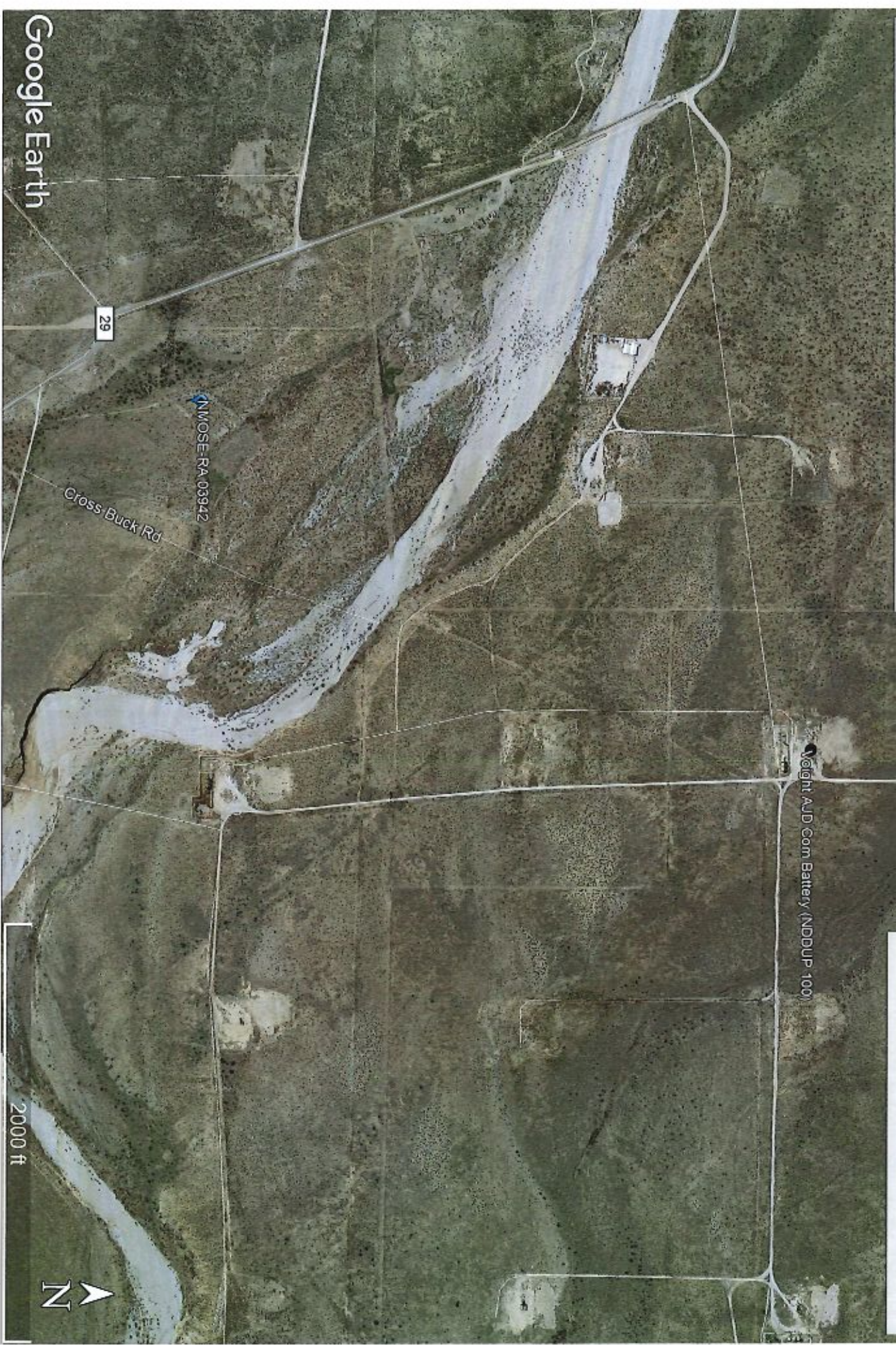
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

Voight AJD Com Battery (NDDUP 100)

Section 29, T19S-R25E
Eddy County, New Mexico

Legend

-  NMOSE-RA 03942
-  Voight AJD Com Battery (NDDUP 100)



Sample Area	Analytical Report	Sample Area	Sample Date	Sample Type	Depth	BTEX	GRO	DRO	EXT DRO	Chlorides
S-Surface	Hall (1705B06)	Excavation Area	5/17/2017	Grab/Auger	Surface (1.25' BSL)	ND	ND	450		8900
S-1	Hall (1705B06)	Excavation Area	5/17/2017	Grab/Auger	1' (2' BSL)	ND	ND	590		33
S-2	Hall (1705B06)	Excavation Area	5/17/2017	Grab/Auger	2' (3' BSL)	ND	ND	1100		73
S 1.0	Cardinal (H802855-01)	Excavation Area	10/4/2018	Grab/Backhoe	Surface (1.25' BSL)	<0.30	<10.0	<10.0	<10.0	160
S 1.1	Cardinal (H802855-01)	Excavation Area	10/4/2018	Grab/Backhoe	1' (2' BSL)	<0.30	<10.0	<10.0	<10.0	304
S 1.2	Cardinal (H802855-01)	Excavation Area	10/4/2018	Grab/Backhoe	2' (3' BSL)	<0.30	<10.0	<10.0	<10.0	32
S 1.3	Cardinal (H802855-01)	Excavation Area	10/4/2018	Grab/Backhoe	3' (4' BSL)	<0.30	<10.0	<10.0	<10.0	400
S 1.4	Cardinal (H802855-01)	Excavation Area	11/14/2017	Grab/Backhoe	4' (5' BSL)	<0.30	<10.0	<10.0	<10.0	688

Site Ranking i: Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 185' per USGS & NMOSSE).

All results are F All results are ppm. BSL - Below Surface Level

Additional soils excavated after 5/17/2017 sample results.

Voight AJD Com Battery (NDDUP 100)

Section 29, T19S-R25E
Eddy County, New Mexico

- Legend**
- Release/Excavation/Sample Area
 - Sample Point (10/4/2018)
 - Sample Point (5/17/2017)



Google Earth



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

October 11, 2018

ROBERT ASHER

EOG Y RESOURCES, INC

105 SOUTH 4TH STREET

ARTESIA, NM 88210

RE: NDDUP UNIT #100

Enclosed are the results of analyses for samples received by the laboratory on 10/08/18 14:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-18-11. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Coley D. Keene".

Coley D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

EOG Y RESOURCES, INC
 ROBERT ASHER
 105 SOUTH 4TH STREET
 ARTESIA NM, 88210
 Fax To: (575) 748-4131

Received: 10/08/2018
 Reported: 10/11/2018
 Project Name: NDDUP UNIT #100
 Project Number: 30-015-26821
 Project Location: EDDY CO NM

Sampling Date: 10/04/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 1.0 (H802855-01)

BTX 80218		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2018	ND	2.18	109	2.00	2.11	
Toluene*	<0.050	0.050	10/11/2018	ND	2.15	107	2.00	2.41	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.19	110	2.00	2.29	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	6.30	105	6.00	2.67	
Total BTX	<0.300	0.300	10/11/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 111 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	10/11/2018	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2018	ND	202	101	200	0.560	
DRO >C10-C28*	<10.0	10.0	10/10/2018	ND	194	97.1	200	0.490	
EXT DRO >C28-C36	<10.0	10.0	10/10/2018	ND					

Surrogate: 1-Chlorooctane 88.3 % 41-142

Surrogate: 1-Chlorooctadecane 86.3 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
ROBERT ASHER
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/08/2018
Reported: 10/11/2018
Project Name: NDDUP UNIT #100
Project Number: 30-015-26821
Project Location: EDDY CO NM

Sampling Date: 10/04/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S 1.1 (H802855-02)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2018	ND	2.18	109	2.00	2.11	
Toluene*	<0.050	0.050	10/11/2018	ND	2.15	107	2.00	2.41	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.19	110	2.00	2.29	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	6.30	105	6.00	2.67	
Total BTEX	<0.300	0.300	10/11/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 69.8-142

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	10/11/2018	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/10/2018	ND	202	101	200	0.560	
DRO >C10-C28*	<10.0	10.0	10/10/2018	ND	194	97.1	200	0.490	
EXT DRO >C28-C36	<10.0	10.0	10/10/2018	ND					

Surrogate: 1-Chlorooctane 81.9 % 41-142

Surrogate: 1-Chlorooctadecane 78.3 % 37.6-147

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
 ROBERT ASHER
 105 SOUTH 4TH STREET
 ARTESIA NM, 88210
 Fax To: (575) 748-4131

Received: 10/08/2018
 Reported: 10/11/2018
 Project Name: NDDUP UNIT #100
 Project Number: 30-015-26821
 Project Location: EDDY CO NM

Sampling Date: 10/04/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 1.2 (H802855-03)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2018	ND	2.18	109	2.00	2.11	
Toluene*	<0.050	0.050	10/11/2018	ND	2.15	107	2.00	2.41	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.19	110	2.00	2.29	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	6.30	105	6.00	2.67	
Total BTEX	<0.300	0.300	10/11/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 108 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	10/11/2018	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/11/2018	ND	200	100	200	0.492	
DRO >C10-C28*	<10.0	10.0	10/11/2018	ND	194	97.0	200	0.0124	
EXT DRO >C28-C36	<10.0	10.0	10/11/2018	ND					

Surrogate: 1-Chlorooctane 88.6 % 41-142

Surrogate: 1-Chlorooctadecane 94.4 % 37.6-147

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* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
ROBERT ASHER
105 SOUTH 4TH STREET
ARTESIA NM, 88210
Fax To: (575) 748-4131

Received: 10/08/2018
Reported: 10/11/2018
Project Name: NDDUP UNIT #100
Project Number: 30-015-26821
Project Location: EDDY CO NM

Sampling Date: 10/04/2018
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: S 1.3 (H802855-04)

BTX 80218		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2018	ND	2.18	109	2.00	2.11	
Toluene*	<0.050	0.050	10/11/2018	ND	2.15	107	2.00	2.41	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.19	110	2.00	2.29	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	6.30	105	6.00	2.67	
Total BTX	<0.300	0.300	10/11/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 69.8-142

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	10/11/2018	ND	416	104	400	3.77	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/11/2018	ND	200	100	200	0.492	
DRO >C10-C28*	<10.0	10.0	10/11/2018	ND	194	97.0	200	0.0124	
EXT DRO >C28-C36	<10.0	10.0	10/11/2018	ND					

Surrogate: 1-Chlorooctane 96.5 % 41-142

Surrogate: 1-Chlorooctadecane 95.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

EOG Y RESOURCES, INC
 ROBERT ASHER
 105 SOUTH 4TH STREET
 ARTESIA NM, 88210
 Fax To: (575) 748-4131

Received: 10/08/2018
 Reported: 10/11/2018
 Project Name: NDDUP UNIT #100
 Project Number: 30-015-26821
 Project Location: EDDY CO NM

Sampling Date: 10/04/2018
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

Sample ID: S 1.4 (H802855-05)

BTEX 8021B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/11/2018	ND	2.18	109	2.00	2.11	
Toluene*	<0.050	0.050	10/11/2018	ND	2.15	107	2.00	2.41	
Ethylbenzene*	<0.050	0.050	10/11/2018	ND	2.19	110	2.00	2.29	
Total Xylenes*	<0.150	0.150	10/11/2018	ND	6.30	105	6.00	2.67	
Total BTEX	<0.300	0.300	10/11/2018	ND					

Surrogate: 4-Bromofluorobenzene (PIL) 109 % 69.8-142

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	688	16.0	10/11/2018	ND	416	104	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	10/11/2018	ND	200	100	200	0.492	
DRO >C10-C28*	<10.0	10.0	10/11/2018	ND	194	97.0	200	0.0124	
EXT DRO >C28-C36	<10.0	10.0	10/11/2018	ND					

Surrogate: 1-Chlorooctane 97.8 % 41-142

Surrogate: 1-Chlorooctadecane 97.1 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



Released to Imaging: 4/10/2023 12:10:01 PM

Received by OCD: 4/4/2023 7:19:22 AM



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

May 26, 2017

Robert Asher
EOG Resources
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4111
FAX

RE: Voight AJD Com Battery

OrderNo.: 1705B06

Dear Robert Asher:

Hall Environmental Analysis Laboratory received 3 sample(s) on 5/19/2017 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,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order: 1705B06

Date Reported: 5/26/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BOG Resources
Project: Voight AJD Com Battery

Lab Order: 1705B06

Lab ID: 1705B06-001 Collection Date: 5/17/2017 8:01:00 AM
Client Sample ID: S-Surface Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.8: ANIONS							Analyst: MRA
Chloride	8900	300		mg/Kg	200	5/25/2017 4:10:54 PM	31936

Lab ID: 1705B06-002 Collection Date: 5/17/2017 8:12:00 AM
Client Sample ID: S-1 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.8: ANIONS							Analyst: LGT
Chloride	33	30		mg/Kg	20	5/24/2017 2:17:37 PM	31936

Lab ID: 1705B06-003 Collection Date: 5/17/2017 8:21:00 AM
Client Sample ID: S-2 Matrix: SOIL

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch ID
EPA METHOD 300.8: ANIONS							Analyst: LGT
Chloride	73	30		mg/Kg	20	5/24/2017 2:30:02 PM	31936

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	Page 1 of 2
	D Sample Diluted Due to Matrix	P Value above quantitation range	
	II 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#: 1705B06
26-May-17

Client: EOG Resources
Project: Voight A/D Com Battery

Sample ID	MB-31936	Sample Type:	MBLK	Test Code:	EPA Method 300.0: Anions					
Client ID:	PBS	Batch ID:	31936	Run No:	43028					
Prep Date:	5/24/2017	Analysis Date:	5/24/2017	Seq No:	1355112	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	LCS-31936			SampType:	LCS		TestCode:	EPA Method 300.0: Anions		
Client ID:	LCSS			Batch ID:	31936		RunNo:	43028		
Prep Date:	5/24/2017			Analysis Date:	5/24/2017		SeqNo:	1355113 Units: mg/Kg		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	90	110			

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 not 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: EOG/Yates

Work Order Number: 1705B06

RcpID: 1

Received By: Erin Melandrez 5/19/2017 9:50:00 AM

Completed By: Ashley Gallegos 5/19/2017 4:03:06 PM

Reviewed By: *AS* 5/22/17

UAG
AS

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? Cooler

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 °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	4.6	Good	Yes			

Chain-of-Custody Record

Client: EOG Resources, Inc.

DATE / TIME

☒ Standard ☐ Rush

Project Name:

Mailing Address: 105 South 4th Street

Voight A/D Com Battery

Artesia, NM 88210

Project #:

Phone #: (575) 748-4217

30-015-42011

Email: Robert_Asher@eogresources.com

Project Manager:

QA/QC Package:

Robert Asher

☒ Standard

☐ Level 4 (Full Validation)

PO# 205632

Accreditation:

Sampler: Robert Asher

☐ NELAP

☐ Other

On Ice: ☒ Yes ☐ No

☐ EDD (Type)

Sample Temperature: 4.5

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
5/17/17	8:01 AM	Soil	S-Surface	1 - 4oz.	Ice	1705B06
5/17/17	8:12 AM	Soil	S-1	1 - 4oz.	Ice	-002
5/17/17	8:21 AM	Soil	S-2	1 - 4oz.	Ice	-003



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

☒ BTEX + MTBE + TMBs (802)	☐ TPH Method 8015E (Gas/Diesel)	☐ TPH (Method 418.1)	☐ EDB (Method 504.1)	☐ 8310 (PNA or PAH)	☐ RCRA 8 Metals	☒ Anions (Cl)	☐ 8081 Pesticides / 8082 PCBs	☐ 8260B (VOA)	☐ 8270 (Semi-VOA)	☐ Air Bubbles (Y or N)
X	X					X				
X	X					X				
X	X					X				

Date:	Time:	Relinquished by:	Date:	Time:
5/18/17	7:05 AM		05/19/17	0850
Date:	Time:	Relinquished by:	Date:	Time:

Remarks: Chlorides on separate report, please. Analytical Results by 5/30/2017.

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of



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

May 26, 2017

Robert Asher
EOG Resources
105 South Fourth Street
Artesia, NM 88210
TEL: (575) 748-4111
FAX

RE: Voight AJD Com Battery

OrderNo.: 1705B06

Dear Robert Asher:

Hall Environmental Analysis Laboratory received 3 sample(s) on 5/19/2017 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 blue ink, appearing to read 'Andy Freeman'.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1705B06

Date Reported: 5/26/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S-Surface

Project: Voight AJO Com Battery

Collection Date: 5/17/2017 8:01:00 AM

Lab ID: 1705B06-001

Matrix: SOIL

Received Date: 5/19/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	450	100		mg/Kg	10	5/23/2017 10:11:45 PM	31889
Surr: DNOP	0	70-130	S	%Rec	10	5/23/2017 10:11:45 PM	31889
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/23/2017 8:43:30 PM	31873
Surr: BFB	97.3	54-150		%Rec	1	5/23/2017 8:43:30 PM	31873
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/23/2017 8:43:30 PM	31873
Toluene	ND	0.048		mg/Kg	1	5/23/2017 8:43:30 PM	31873
Ethylbenzene	ND	0.048		mg/Kg	1	5/23/2017 8:43:30 PM	31873
Xylenes, Total	ND	0.096		mg/Kg	1	5/23/2017 8:43:30 PM	31873
Surr: 4-Bromofluorobenzene	115	66.6-132		%Rec	1	5/23/2017 8:43:30 PM	31873

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

Page 1 of 6

Analytical Report

Lab Order 1705B06

Date Reported: 5/26/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: EOG Resources

Client Sample ID: S-1

Project: Voight AJD Com Battery

Collection Date: 5/17/2017 8:12:00 AM

Lab ID: 1705B06-002

Matrix: SOIL

Received Date: 5/19/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DI	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	580	98		mg/Kg	10	5/23/2017 10:40:00 PM	31889
Surr: DNOP	0	70-130	S	%Rec	10	5/23/2017 10:40:00 PM	31889
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	5/23/2017 9:07:34 PM	31873
Surr: BFB	98.6	54-150		%Rec	1	5/23/2017 9:07:34 PM	31873
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.024		mg/Kg	1	5/23/2017 9:07:34 PM	31873
Toluene	ND	0.048		mg/Kg	1	5/23/2017 9:07:34 PM	31873
Ethylbenzene	ND	0.048		mg/Kg	1	5/23/2017 9:07:34 PM	31873
Xylenes, Total	ND	0.096		mg/Kg	1	5/23/2017 9:07:34 PM	31873
Surr: 4-Bromofluorobenzene	116	66.6-132		%Rec	1	5/23/2017 9:07:34 PM	31873

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

Page 2 of 6

Analytical Report

Lab Order 1705B06

Date Reported: 5/26/2017

Hall Environmental Analysis Laboratory, Inc.

CLIENT: BOG Resources

Client Sample ID: S-2

Project: Voight AJD Com Battery

Collection Date: 5/17/2017 8:21:00 AM

Lab ID: 1705B06-003

Matrix: SOIL

Received Date: 5/19/2017 9:50:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS							Analyst: TOM
Diesel Range Organics (DRO)	1100	97		mg/Kg	10	5/23/2017 11:08:02 PM	31889
Surr: DNOP	0	70-130	S	%Rec	10	5/23/2017 11:08:02 PM	31889
EPA METHOD 8015D: GASOLINE RANGE							Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	5/23/2017 9:31:40 PM	31873
Surr: BFB	97.8	54-150		%Rec	1	5/23/2017 9:31:40 PM	31873
EPA METHOD 8021B: VOLATILES							Analyst: NSB
Benzene	ND	0.025		mg/Kg	1	5/23/2017 9:31:40 PM	31873
Toluene	ND	0.049		mg/Kg	1	5/23/2017 9:31:40 PM	31873
Ethylbenzene	ND	0.049		mg/Kg	1	5/23/2017 9:31:40 PM	31873
Xylenes, Total	ND	0.099		mg/Kg	1	5/23/2017 9:31:40 PM	31873
Surr: 4-Bromofluorobenzene	116	66.6-132		%Rec	1	5/23/2017 9:31:40 PM	31873

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	K	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

Page 3 of 6

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1705B06
26-May-17

Client: UOG Resources
Project: Voight A/D Com Battery

Sample ID: LCS-31889	SampType: LCS		TestCode: EPA Method 8015M/D; Diesel Range Organics							
Client ID: LCSS	Batch ID: 31889		RunNo: 42983							
Prep Date: 5/22/2017	Analysis Date: 5/23/2017		SeqNo: 1353523		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	43	10	50.00	0	88.9	73.2	114			
Sur: DNOP	4.8		5.000		91.3	70	130			

Sample ID: MB-31889	Sample Type: MBLK	Test Code: EPA Method 8015M/D: Diesel Range Organics								
Client ID: PBS	Batch ID: 31889	Run No: 42983								
Prep Date: 5/22/2017	Analysis Date: 5/23/2017	Seq No: 1353524			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Sur: DNOP	9.6		10.00		96.3	70	130			

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

R Value above quantitation range

I 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#: 1705B06

26-May-17

Client: BOG Resources
Project: Voight A/D Com Battery

Sample ID	MB-31873	SamplType:	MBLK	TestCode:	EPA Method 8015D: Gasoline Range					
Client ID:	PBS	Batch ID:	31873	RunNo:	42996					
Prep Date:	5/22/2017	Analysis Date:	5/23/2017	SeqNo:	1353389	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Gasoline Range Organics (GRO)	ND	5.0								
Sum: BFB	880		1000		95.8	54	150			

Sample ID	LCS-31873		SamplType:	LCS		TestCode:	EPA Method 8015D: Gasoline Range				
Client ID:	LCSS		Batch ID:	31873		RunNo:	42996				
Prep Date:	5/22/2017		Analysis Date:	5/23/2017		SeqNo:	1353390		Units:		mg/Kg
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD limit	Qual	

Gasoline Range Organics (GRO)	23	5.0	25.00	0	93.4	76.4	125			
Sum: BFB	1100		1000		110	54	150			

Qualifiers:

- | | |
|---|---|
| * Value exceeds Maximum Contaminant Level | B Analyte detected in the associated Method Blank |
| D Sample Diluted Due to Matrix | B 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#: 1705B06

26-May-17

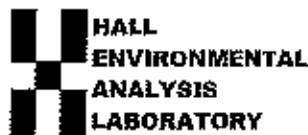
Client: EOG Resources
Project: Voight A/D Com Battery

Sample ID: MB-31873	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 31873	RunNo: 42996								
Prep Date: 5/22/2017	Analysis Date: 5/23/2017	SeqNo: 1353425 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surf: 4-Bromofluorobenzene	1.1		1.000		114	66.6	132			

Sample ID: LCS-31873	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 31873	RunNo: 42996								
Prep Date: 5/22/2017	Analysis Date: 5/23/2017	SeqNo: 1353426 Units: mg/Kg								
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.5	80	120			
Toluene	1.0	0.050	1.000	0	100	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	80	120			
Xylenes, Total	3.1	0.10	3.000	0	103	80	120			
Surf: 4-Bromofluorobenzene	1.1		1.000		115	66.6	132			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- E 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
- F 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



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: EOG/Yates

Work Order Number: 1705B08

RepID: 1

Received By: Erin Melendrez

5/19/2017 9:50:00 AM

Completed By: Ashley Gallegos

5/19/2017 4:03:08 PM

Reviewed By: *aj*

5/22/17

UAG

aj

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	4.5	Good	Yes			

NM OIL CONSERVATION
ARTESIA DISTRICT

 State of New Mexico
 Energy Minerals and Natural Resources

MAY 23 2017

 Form C-141
 Revised August 8, 2011

 District I
 1625 N. French Dr., Hobbs, NM 88240
 District II
 811 S. First St., Artesia, NM 88210
 District III
 1080 Rio Brazos Road, Aztec, NM 87410
 District IV
 1220 S. St. Francis Dr., Santa Fe, NM 87505

 Oil Conservation Division
 1220 South St. Francis Dr.
 Santa Fe, NM 87505

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

Release Notification and Corrective Action
OPERATOR
☒ Initial Report ☐ Final Report

Name of Company BOG Y Resources, Inc.	OGRID Number 25575	Contact Robert Asher	New forms can be found in the New Mexico State Website in forms: http://www.emnrd.state.nm.us/OCD/forms.html
Address 104 S. 4th Street	Telephone No. 575-748-1471		
Facility Name Voight A/D Com Battery	Facility Type Battery		

Surface Owner Fee	Mineral Owner Fee	API No.
----------------------	----------------------	---------

LOCATION OF RELEASE

Unit Letter D	Section 29	Township 19S	Range 25E	Feet from the 660	North/South Line North	Feet from the 660	East/West Line West	County Eddy
------------------	---------------	-----------------	--------------	----------------------	---------------------------	----------------------	------------------------	----------------

Latitude 32.63719 Longitude 104.51278

NATURE OF RELEASE

Type of Release Produced Water	Volume of Release 15 B/PW	Volume Recovered 5 BPW
Source of Release Poly to steel transition	Date and Hour of Occurrence 5/3/2017, AM	Date and Hour of Discovery 5/3/2017, AM
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? NA	
By Whom? NA	Date and Hour NA	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

A poly to steel transition came apart on the discharge side of the pump (pump not running) causing the release. Closed valves to isolate the leak, vacuum truck(s) and roustabout crews were called.

Describe Area Affected and Cleanup Action Taken.*

 An approximate area of 5' X 75', south edge of battery. Remaining produced water was recovered using a vacuum truck. Roustabout crew repaired the line, a backhoe scraped approximately 12" of impacted soils, hauled to an approved NMOC facility. Vertical and horizontal delineation samples will be taken and analysis run for TPH & BTEX. If initial analytical results for TPH & BTEX are under RRAL's (site ranking is 0) a Final Report, C-141 will be submitted to the OCD requesting closure. If the analytical results are above the RRAL's a work plan will be submitted to the OCD. Depth to Ground Water > 100' (approximately 222', Section 30, T19S-R25E per NMOCSE), Wellhead Protection Area: No, Distance to Surface Water Body: > 1000', **SITE RANKING IS 0**

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC 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, NMOC 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.

OIL CONSERVATION DIVISION

Signature:



Printed Name: Robert Asher

Approved by Environmental Supervisor:

Title: Environmental Supervisor

Approval Date: 5/26/17

Expiration Date: N/A

E-mail Address: Robert_Asher@engresources.com

Conditions of Approval:

Date: May 23, 2017

Phone: 575-748-4217

2RP-

See attached

 Attached ☐

* Attach Additional Sheets If Necessary

2RP-4226

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 5/23/2017 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RD-4226 has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District 2 office in ARTESIA on or before 6/23/2017. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.

- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.

- Nominal detection limits for field and laboratory analyses must be provided.

- Composite sampling is not generally allowed.

- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us

Bratcher, Mike, EMNRD

From: Bob Asher <Bob_Asher@eogresources.com>
Sent: Tuesday, May 23, 2017 10:20 AM
To: Bratcher, Mike, EMNRD
Cc: Weaver, Crystal, EMNRD
Subject: Form C-141 Initial Report (Voight ADJ Com Battery)
Attachments: Form C-141 Initial (Voight ADJ Com Battery).pdf

Thank you,

Robert C. "Bob" Asher
Environmental Supervisor
Safety & Environmental Department
EOG Resources, Inc.
Artesia Division
Artesia, NM 88210
575-748-4217 (Office)
575-365-4021 (Cell)
EOG Safety Begins With YOUR Safety



District I
1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720
District III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 203740

CONDITIONS

Operator: EOG Y RESOURCES, INC. 104 S 4th St Artesia, NM 88210	OGRID: 25575
	Action Number: 203740
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwell	None	4/10/2023