



EOG Resources, Inc.
Artesia Division Office
104 S. 4th Street
Artesia, N. M. 88210

KAR5 N-200227-C-1410

EOG Resources, Inc.

***Characterization &
Remediation Plan***

Gissler B #59

30-015-37733

Section 12, T17S-R30E

Eddy County, New Mexico

February 26, 2020



Table of Contents

I. Location..... 3

II. Background..... 3

III. Surface and Ground Water..... 3

IV. NMOCD Table I Criteria..... 3

V. Site Delineation Status..... 4

VI. Remediation Plan..... 4

VII. Site Closure..... 4

Appendix 1: Site/Topo Map

Appendix 2: Depth to ground water

Appendix 3: Wellhead protection area

Appendix 4: Distance to nearest significant watercourse

Appendix 5: Field Data/Sample Data

Appendix 6: Laboratory Data and COC

Appendix 7: Photos

Appendix 8: Form C-141 Release Notification

Appendix 9: Form C-141 Site Assessment/Characterization/Remediation Plan

I. Location

From Artesia, NM travel east on US 82 to Square Lake Road, (CR 220) between MM134 & MM135. Turn left (north) onto Square Lake Road, continue for approximately 2.25 miles, then turn left (west) onto lease road, continue on lease road for approximately 0.25 miles, road curves right (north) and continue for 0.10 miles to the Gissler B #59 well pad.

II. Background

On December 12, 2019, EOG Resources, Inc. submitted to the NMOCD District II office a Form C-141, Release Notification for the release of 9 B/O with 8 B/O recovered. The affected area is approximately 65' X 90' on the well pad. The release was caused by a SDR 11 poly flow line split due to obstruction or paraffin plug, which caused the release. A vacuum truck was called and recovered the remaining oil. A backhoe was dispatched and scraped up the surface of the impacted area, contaminated soils (approximately 64 cubic yards) were disposed at an NMOCD approved facility. The release occurred on the well pad and remained on the well pad.

III. Surface and Ground Water

Area surface geology is Eolian and piedmont deposits. Based on information regarding this location (Section 12, T17S-R30E), the United States Geological Survey (USGS) National Water Information System, indicates the depth to groundwater as follows: USGS #325210103580101, (Depth to Water: 361.25', Field groundwater-level measurements: 4/1996, Distance from Location: 2.50 miles), USGS #325216103575701, (Depth to Water: 362.45', Field groundwater-level measurements: 4/1996, Distance from Location: 2.51 miles). The New Mexico Office of the State Engineer (NMOSE) Point of Diversion Summary indicates the depth to groundwater as follows: (NMOSE-RA11914 POD1, Depth to Water: 80', Log File Date: 4/2013, Distance from Location: 3.67 miles),

Watercourses in the area are dry except for infrequent flows in response to major precipitation events, with the distance to nearest significant watercourse being the Pecos River (22.57 miles, west of the location).

IV. NMOCD Table I Criteria

Depth to ground water	>100'
Wellhead Protection Area	> 1000'
Distance to significant watercourse	> 1000'

Depth	Constituent	Method	Limit
>100'	Chloride	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

V. Site Delineation Status

Initial sampling was conducted on August 13, 2019, with samples collected being 5 point composite samples at the following depths & GPS coordinates are shown on Appendix 5, (2/13/2020 sidewall samples collected, are also a 5 point composite).

S- 1.1: 1' (32.848124°; -103.931708°)	S- 7.1: 1' (32.848079°; -103.931773°)
S- 2.1: 1' (32.848122°; -103.931776°)	S- 8.1: 1' (32.848030°; -103.931799°)
S- 3.1: 1' (32.848119°; -103.931842°)	S- 9.1: 1' (32.848028°; -103.931865°)
S- 4.1: 1' (32.848120°; -103.931918°)	S- 10.1: 1' (32.847983°; -103.931848°)
S- 5.1: 1' (32.848080°; -103.931902°)	S- 11.1: 1' (32.847989°; -103.931805°)
S- 6.1: 1' (32.848076°; -103.931841°)	

SW-1A: (32.84814°; -103.93193°) (32.84814°; -103.93182°) (32.84815°; -103.93170°) (32.84811°; -103.93168°) (32.84807°; -103.93175°)

SW-1B: (32.84803°; -103.93177°) (32.84797°; -103.93178°) (32.84797°; -103.93186°) (32.84804°; -103.93189°) (32.84810°; -103.93195°)

These samples were sent to an NMOCD approved laboratory and analysis for the following constituents/methods.

Chlorides:	EPA 300.0
TPH (GRO+DRO+MRO):	Method 8015M
BTEX:	Method 8015B
Benzene:	Method 8015B

Appendix 5 contains the Field Data/Sample Data.

Appendix 6 contains Laboratory Data and COC.

VI. Remediation Plan

EOG proposes the following remediation plan.

Based off of the 1/20/2020 and 2/13/2020 enclosed analytical results. EOG will will notify the appropriate division district office two business days prior to conducting final sampling. Separate representative wall and base 5-point composite samples will be collected to show horizontal and vertical remediation. Each composite sample must not be representative of more than 200 ft².

If all composite and grab sample concentrations are less than or equal to the parameters listed in Table I, then the responsible party may proceed to backfill the excavated area(s) with approximately 64 cubic yards of clean/like backfill material.

VII. Site Closure

Upon completion of the remedial and backfilling activities, EOG Resources, Inc. will submit a Form C-141/Closure to the NMOCD, including the Closure Report Attachment Checklist.

Appendix 1

Site/Topo Map









Appendix 2

Depth to Ground Water





[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Site Information ▼

Geographic Area:

United States ▼

GO

Click to hide News Bulletins

- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#) 

USGS 325216103575701 16S.30E.33.42443

Available data for this site

SUMMARY OF ALL AVAILABLE DATA ▼

GO

Well Site

DESCRIPTION:

Latitude 32°52'16", Longitude 103°57'57" NAD27
 Eddy County, New Mexico , Hydrologic Unit 13060011
 Well depth: 385 feet
 Land surface altitude: 3,729 feet above NAVD88.
 Well completed in "Sunrise Formation" (231SNRS) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1986-04-25	1986-04-25	1
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
 Email questions about this site to [New Mexico Water Science Center Water-Data Inquiries](#)

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#)

[Plug-Ins](#)

[FOIA](#)

[Privacy](#)

[Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: NWIS Site Information for USA: Site Inventory

URL: [https://waterdata.usgs.gov/nwis/inventory?](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=325216103575701)

[agency_code=USGS&site_no=325216103575701](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=325216103575701)



Page Contact Information: [New Mexico Water Data Support Team](#)

Page Last Modified: 2020-02-05 16:25:57 EST

0.31 0.27 caww01



USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater ▼

Geographic Area:

United States ▼

GO

Click to hide News Bulletins

- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#) 

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 325216103575701

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 325216103575701 16S.30E.33.42443

Available data for this site

Groundwater: Field measurements ▼

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°52'16", Longitude 103°57'57" NAD27

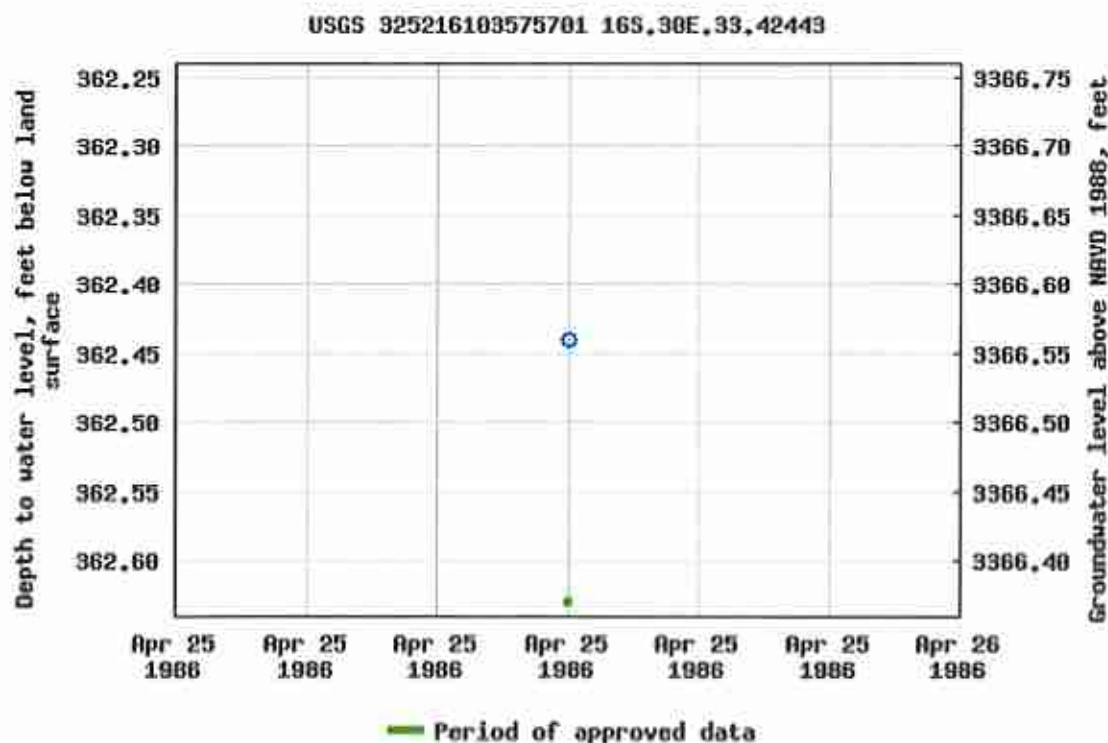
Land-surface elevation 3,729 feet above NAVD88

The depth of the well is 385 feet below land surface.

This well is completed in the Sunrise Formation (231SNRS) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#)

[Plug-Ins](#)

[FOIA](#)

[Privacy](#)

[Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2020-02-05 16:26:02 EST

0.55 0.48 nadww01



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Site Information ▼

Geographic Area:

United States ▼

GO

Click to hideNews Bulletins

- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#) 

USGS 325210103580101 16S.30E.33.44233

Available data for this site

SUMMARY OF ALL AVAILABLE DATA ▼

GO

Well Site

DESCRIPTION:

Latitude 32°52'10", Longitude 103°58'01" NAD27
 Eddy County, New Mexico , Hydrologic Unit 13060011
 Well depth: 433 feet
 Land surface altitude: 3,725 feet above NAVD88.
 Well completed in "Sunrise Formation" (231SNRS) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1986-04-25	1986-04-25	1
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science Center
 Email questions about this site to [New Mexico Water Science Center Water-Data Inquiries](#)

[Questions about sites/data?](#)
[Feedback on this web site](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#)

[Plug-Ins](#)

[FOIA](#)

[Privacy](#)

[Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)



Title: NWIS Site Information for USA: Site Inventory

**URL: [https://waterdata.usgs.gov/nwis/inventory?](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=325210103580101)
[agency_code=USGS&site_no=325210103580101](https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=325210103580101)**

Page Contact Information: [New Mexico Water Data Support Team](#)

Page Last Modified: 2020-02-05 16:24:53 EST

0.32 0.31 caww01



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Groundwater ▼

Geographic Area:

United States ▼

GO

Click to hideNews Bulletins

- [Introducing The Next Generation of USGS Water Data for the Nation](#)
- [Full News](#) 

Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

- 325210103580101

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 325210103580101 16S.30E.33.44233

Available data for this site

Groundwater: Field measurements ▼

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°52'10", Longitude 103°58'01" NAD27

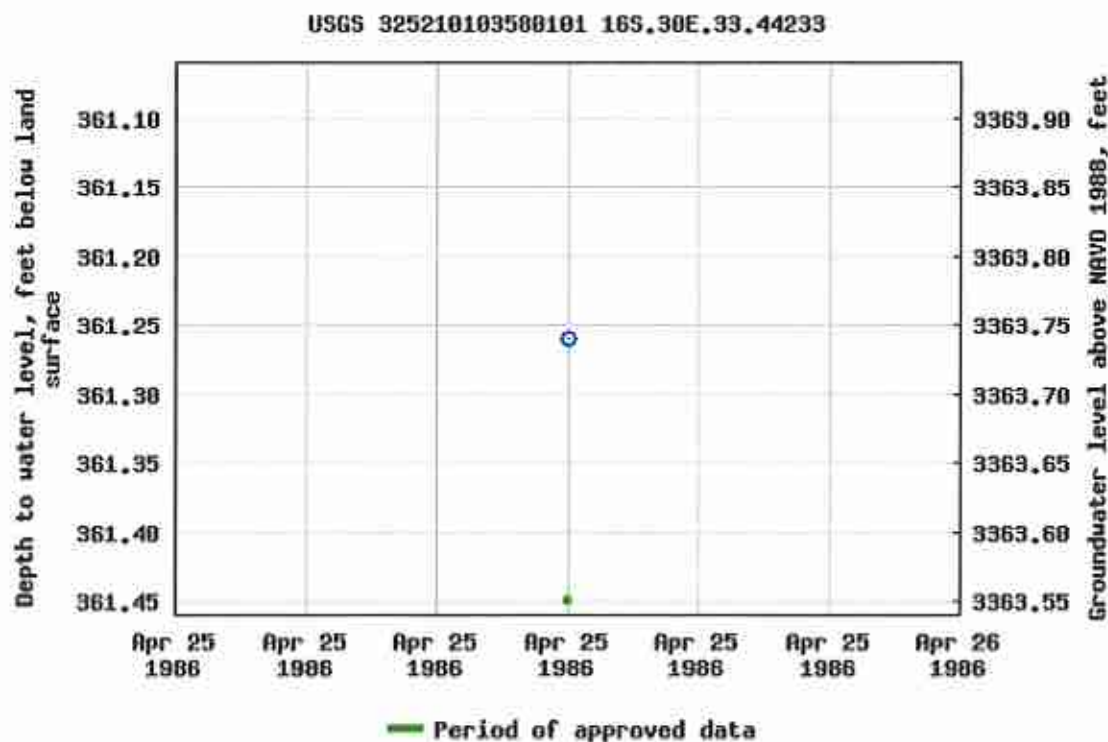
Land-surface elevation 3,725 feet above NAVD88

The depth of the well is 433 feet below land surface.

This well is completed in the Sunrise Formation (231SNRS) local aquifer.

Output formats

Table of data
Tab-separated data
Graph of data
Reselect period



Breaks in the plot represent a gap of at least one year between field measurements.

[Download a presentation-quality graph](#)

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#)

[Plug-Ins](#)

[FOIA](#)

[Privacy](#)

[Policies and Notices](#)

[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)

Title: Groundwater for USA: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nwis/gwlevels?>



Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2020-02-05 16:25:10 EST

0.65 0.49 nadww01



New Mexico Office of the State Engineer Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)				(quarters are smallest to largest)		(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y
	RA 11914 POD1	2	4	2	20	17S	30E	594801	3632002 
Driller License: 1682		Driller Company: HUNGRY HORSE, LLC.							
Driller Name: JOHN NORRIS									
Drill Start Date: 03/19/2013		Drill Finish Date:		03/19/2013		Plug Date:			
Log File Date: 04/09/2013		PCW Rcv Date:				Source: Shallow			
Pump Type:		Pipe Discharge Size:				Estimated Yield:			
Casing Size:		Depth Well:		85 feet		Depth Water:		80 feet	
Water Bearing Stratifications:		Top	Bottom	Description					
		11	85	Sandstone/Gravel/Conglomerate					

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.

Appendix 3

Wellhead Protection Area



Appendix 4

Distance to Nearest Significant Watercourse



Appendix 5

Field Data/Sample Data



Gissler B #59
Sample Data
Per NMOCD Table I Criteria

Sample ID	Depth (ft. bgs)	Date	Chloride	TPH (GRO+DRO+ MRO)	GRO+DRO	BTEX	Benzene
S-1.1	1'	1/20/20	1940	188.5	121	0.0000	0.0000
S-2.1	1'	1/20/20	738	47.9	47.9	0.0000	0.0000
S-3.1	1'	1/20/20	516	32.1	32.1	0.0000	0.0000
S-4.1	1'	1/20/20	510	0	0	0.0000	0.0000
S-5.1	1'	1/20/20	1060	0	0	0.0000	0.0000
S-6.1	1'	1/20/20	1340	879	648	0.2190	0.0000
S-7.1	1'	1/20/20	417	0	0	0.0254	0.0000
S-8.1	1'	1/20/20	682	0	0	0.0000	0.0000
S-9.1	1'	1/20/20	608	243.8	169	0.0000	0.0000
S-10.1	1'	1/20/20	563	782	569	0.0000	0.0000
S-11.1	1'	1/20/20	159	31.7	31.7	0.0000	0.0000
Sample ID	Depth (ft. bgs)	Date	Chloride	TPH (GRO+DRO+ MRO)	GRO+DRO	BTEX	Benzene
SW-1A	1'	2/13/20	301	0	0	0.0000	0.0000
SW-1B	1'	2/13/20	60.4	0	0	0.0000	0.0000

NMOCD Table I Criteria			
Depth	Constituent	Method	Limit
>100'	Chloride	EPA 300.0 or SM4500 Cl B	20,000 mg/kg
	TPH (GRO+DRO +MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

Appendix 6

Laboratory Data and COC



Analytical Report

Report Summary

Client: EOG Resources Inc. - Carlsbad

Samples Received: 1/28/2020

Job Number: 19034-0001

Work Order: P001082

Project Name/Location: Gissler B #59

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Date: 1/30/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.
Envirotech, Inc. holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc. holds the Texas TNI certification T104704567-19-2 for the data reported.



FOG Resources Inc. - Carlshad
104 South 4th Street
Artesia NM, 88210

Project Name: Gissler B #59
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
01/30/20 14:31

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-1.1	P001082-01A	Soil	01/20/20	01/28/20	Glass Jar, 4 oz.
S-2.1	P001082-02A	Soil	01/20/20	01/28/20	Glass Jar, 4 oz.
S-3.1	P001082-03A	Soil	01/20/20	01/28/20	Glass Jar, 4 oz.
S-4.1	P001082-04A	Soil	01/20/20	01/28/20	Glass Jar, 4 oz.
S-5.1	P001082-05A	Soil	01/20/20	01/28/20	Glass Jar, 4 oz.
S-6.1	P001082-06A	Soil	01/20/20	01/28/20	Glass Jar, 4 oz.
S-7.1	P001082-07A	Soil	01/20/20	01/28/20	Glass Jar, 4 oz.
S-8.1	P001082-08A	Soil	01/20/20	01/28/20	Glass Jar, 4 oz.
S-9.1	P001082-09A	Soil	01/20/20	01/28/20	Glass Jar, 4 oz.
S-10.1	P001082-10A	Soil	01/20/20	01/28/20	Glass Jar, 4 oz.
S-11.1	P001082-11A	Soil	01/20/20	01/28/20	Glass Jar, 4 oz.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



FOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Gissler B #59
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
01/30/20 14:31

S-1.1
P001082-01 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-------	-------	----------	-------	----------	----------	--------	-------

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
<i>Surrogate: 1-Bromochlorobenzene PID</i>		106 %		50-150	2005015	01/28/20	01/30/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	121	25.0	mg/kg	1	2005018	01/28/20	01/29/20	EPA 8015D	
Oil Range Organics (C28-C40)	67.5	50.0	mg/kg	1	2005018	01/28/20	01/29/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		95.5 %		50-200	2005018	01/28/20	01/29/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8015D	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		95.0 %		50-150	2005015	01/28/20	01/30/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	1940	20.0	mg/kg	1	2005017	01/28/20	01/28/20	EPA 300.0/9056A	
----------	------	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Gissler B #59
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
01/30/20 14:31

S-2.1

P001082-02 (Solid)

Reporting:

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-------	-------	----------	-------	----------	----------	--------	-------

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Surrogate: 1-Bromochlorobenzene (P11)		106%		50-150	2005015	01/28/20	01/30/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	47.9	25.0	mg/kg	1	2005018	01/28/20	01/29/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005018	01/28/20	01/29/20	EPA 8015D	
Surrogate: n-Nonane		94.9%		50-200	2005018	01/28/20	01/29/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene (P11)		94.1%		50-150	2005015	01/28/20	01/30/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	738	20.0	mg/kg	1	2005017	01/28/20	01/28/20	EPA 300.0/9056A	
----------	-----	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



EOG Resources Inc. - Carlisbad
104 South 4th Street
Artesia NM, 88210

Project Name: Gessler B #59
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
01/30/20 14:31

S-3.1
P001082-03 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		107 %		50-150	2005015	01/28/20	01/30/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	32.1	25.0	mg/kg	1	2005018	01/28/20	01/29/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005018	01/28/20	01/29/20	EPA 8015D	
Surrogate: n-Nonane		93.8 %		50-200	2005018	01/28/20	01/29/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005013	01/28/20	01/30/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.2 %		50-150	2005013	01/28/20	01/29/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	516	20.0	mg/kg	1	2005017	01/28/20	01/28/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Gissler B #59
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
01/30/20 14:31

S-4.1

P001082-04 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-------	-------	----------	-------	----------	----------	--------	-------

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		106 %		50-150	2005015	01/28/20	01/30/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005018	01/28/20	01/29/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005018	01/28/20	01/29/20	EPA 8015D	
Surrogate: n-Nonane		94.2 %		50-200	2005018	01/28/20	01/29/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.9 %		50-150	2005015	01/28/20	01/30/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	510	20.0	mg/kg	1	2005017	01/28/20	01/28/20	EPA 300.0/9056A	
----------	-----	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Gissler B #59
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
01/30/20 14:31

S-5.1
P001082-05 (Solid)

Reporting:

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-------	-------	----------	-------	----------	----------	--------	-------

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	

Surrogate: 4-Dinitrochlorobenzene-P111

105 % 50-150 2005015 01/28/20 01/30/20 EPA 8021B

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005018	01/28/20	01/29/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005018	01/28/20	01/29/20	EPA 8015D	

Surrogate: n Nonane

90.1 % 50-200 2005018 01/28/20 01/29/20 EPA 8015D

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8015D	
----------------------------------	----	------	-------	---	---------	----------	----------	-----------	--

Surrogate: 1-Chloro-4-fluorobenzene-FID

93.2 % 50-150 2005015 01/28/20 01/30/20 EPA 8015D

Anions by 300.0/9056A

Chloride	1060	20.0	mg/kg	1	2005017	01/28/20	01/28/20	EPA 300.0/9056A	
----------	------	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Gissler B #59
Project Number: 19034-0001
Project Manager: Robert Ashe

Reported:
01/30/20 14:31

S-6.1
P001082-06 (Solid)

Reporting:

Analyte:	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
----------	--------	-------	-------	----------	-------	----------	----------	--------	-------

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Ethylbenzene	0.0390	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
p,m-Xylene	0.119	0.0500	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
o-Xylene	0.0615	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Total Xylenes	0.180	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	

Surrogate: 4-Bromochlorobenzene-FID 109 % 50-150 2005015 01/28/20 01/30/20 EPA 8021B

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	648	25.0	mg/kg	1	2005018	01/28/20	01/29/20	EPA 8015D	
Oil Range Organics (C28-C40)	231	50.0	mg/kg	1	2005018	01/28/20	01/29/20	EPA 8015D	

Surrogate: n-Nonane 114 % 50-200 2005018 01/28/20 01/29/20 EPA 8015D

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8015D	
----------------------------------	----	------	-------	---	---------	----------	----------	-----------	--

Surrogate: 1-Chloro-4-fluorobenzene-FID 93.3 % 50-150 2005015 01/28/20 01/30/20 EPA 8015D

Anions by 300.0/9056A

Chloride	1340	20.0	mg/kg	1	2005017	01/28/20	01/28/20	EPA 300.0/9056A	
----------	------	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



DOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Gissler D #59
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
01/30/20 14:31

S-7.1
P001082-07 (Solid)

Reporting:

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-------	-------	----------	-------	----------	----------	--------	-------

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Ethylbenzene	0.0254	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		108 %		50-150	2005015	01/28/20	01/30/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005018	01/28/20	01/29/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005018	01/28/20	01/29/20	EPA 8015D	
Surrogate: n-Nonane		89.8 %		50-200	2005018	01/28/20	01/29/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.8 %		50-150	2005015	01/28/20	01/30/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	417	20.0	mg/kg	1	2005017	01/28/20	01/28/20	EPA 300.0/9056A	
----------	-----	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



EOG Resources Inc. - Carlsbad
104 South 4th Street
Alamogordo NM, 88210

Project Name: Gissler B #59
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
01/30/20 14:31

S-8.1
P001082-08 (Solid)

Reporting:

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-------	-------	----------	-------	----------	----------	--------	-------

Volatiles Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021H	
Toluene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021H	
o-Xylene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021H	

Surrogate: 4-Bromochlorobenzene-PID

107.96 50-150 2005015 01/28/20 01/30/20 EPA 8021H

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005018	01/28/20	01/29/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005018	01/28/20	01/29/20	EPA 8015D	

Surrogate: n-Nonane

88.4 % 50-200 2005018 01/28/20 01/29/20 EPA 8015D

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8015D	
----------------------------------	----	------	-------	---	---------	----------	----------	-----------	--

Surrogate: 1-Chloro-2-fluorobenzene-PID

94.3 % 50-150 2005015 01/28/20 01/30/20 EPA 8015D

Anions by 300.0/9056A

Chloride	682	20.0	mg/kg	1	2005017	01/28/20	01/28/20	EPA 300.0/9056A	
----------	-----	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Gissler B #59
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
01/30/20 14:31

S-9.1
P001082-09 (Solid)

Reporting:

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-------	-------	----------	-------	----------	----------	--------	-------

Volatiles Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		106 %		50-150	2005015	01/28/20	01/30/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	169	25.0	mg/kg	1	2005018	01/28/20	01/29/20	EPA 8015D	
Oil Range Organics (C28-C40)	74.8	50.0	mg/kg	1	2005018	01/28/20	01/29/20	EPA 8015D	
Surrogate: n-Nonane		93.5 %		50-200	2005018	01/28/20	01/29/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		93.9 %		50-150	2005015	01/28/20	01/30/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	608	20.0	mg/kg	1	3005017	01/28/20	01/28/20	EPA 300.0/9056A	
----------	-----	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Gissler H #59
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
01/30/20 14:31

S-10.1

P001082-10 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-------	-------	----------	-------	----------	----------	--------	-------

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		107%		50-150	2005015	01/28/20	01/30/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	569	25.0	mg/kg	1	2005018	01/28/20	01/29/20	EPA 8015D	
Oil Range Organics (C28-C40)	213	50.0	mg/kg	1	2005018	01/28/20	01/29/20	EPA 8015D	
Surrogate: n-Nonane		113%		50-200	2005018	01/28/20	01/29/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8015D	
Surrogate: 1-Chloro-1-fluorobenzene-FID		93.9%		50-150	2005015	01/28/20	01/30/20	EPA 8015D	

Anions by 300.0/90S6A

Chloride	563	20.0	mg/kg	1	2005017	01/28/20	01/28/20	EPA 300.0/90S6A	
----------	-----	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Gissler B #59
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
01/30/20 14:31

S-11.1
P001082-11 (Solid)

Reporting									
Analyte:	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-P11		106 %		50-150	2005015	01/28/20	01/30/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	31.7	25.0	mg/kg	1	2005018	01/28/20	01/29/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005018	01/28/20	01/29/20	EPA 8015D	
Surrogate: n-Nonane		89.1 %		50-200	2005018	01/28/20	01/29/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-F1D		94.1 %		50-150	2005015	01/28/20	01/30/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	159	20.0	mg/kg	1	2005017	01/28/20	01/28/20	EPA 300.0/9056A	

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Gissler D #59
Project Number: 19034-0001
Project Manager: Robert Ashier

Reported:
01/30/20 14:31

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPT	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2005015 - Purge and Trap EPA 5030A

Blank (2005015-BL.K1)

Prepared: 01/28/20 | Analyzed: 01/29/20 |

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0350	"							

Surrogate: 1-Bromochlorobenzene-PID 8.49 * 8.00 104 50-150

LCN (2005015-BS1)

Prepared: 01/28/20 | Analyzed: 01/29/20 |

Benzene	5.34	0.0250	mg/kg	5.00		107	70-130			
Toluene	5.34	0.0250	"	5.00		107	70-130			
Ethylbenzene	5.31	0.0250	"	5.00		106	70-130			
p,m-Xylene	10.6	0.0500	"	10.0		106	70-130			
o-Xylene	5.34	0.0250	"	5.00		107	70-130			
Total Xylenes	15.9	0.0250	"	15.0		106	70-130			

Surrogate: 1-Bromochlorobenzene-PID 8.56 * 8.00 107 50-150

Matrix Spike (2005015-MS1)

Source: P001075-01

Prepared: 01/28/20 | Analyzed: 01/29/20 |

Benzene	5.05	0.0250	mg/kg	5.00	ND	101	54.3-133			
Toluene	5.05	0.0250	"	5.00	ND	101	61.4-130			
Ethylbenzene	5.01	0.0250	"	5.00	ND	100	61.4-133			
p,m-Xylene	10.0	0.0500	"	10.0	ND	100	63.3-131			
o-Xylene	5.05	0.0250	"	5.00	ND	101	63.3-131			
Total Xylenes	15.1	0.0250	"	15.0	ND	100	63.3-131			

Surrogate: 1-Bromochlorobenzene-PID 8.66 * 8.00 108 50-150

Matrix Spike Dup (2005015-MSD1)

Source: P001075-01

Prepared: 01/28/20 | Analyzed: 01/29/20 |

Benzene	5.17	0.0250	mg/kg	5.00	ND	103	54.3-133	2.31	20	
Toluene	5.13	0.0250	"	5.00	ND	103	61.4-130	1.99	20	
Ethylbenzene	5.12	0.0250	"	5.00	ND	102	61.4-133	3.14	20	
p,m-Xylene	10.2	0.0500	"	10.0	ND	102	63.3-131	2.07	20	
o-Xylene	5.15	0.0250	"	5.00	ND	103	63.3-131	1.98	20	
Total Xylenes	15.4	0.0250	"	15.0	ND	102	63.3-131	2.04	20	

Surrogate: 1-Bromochlorobenzene-PID 8.63 * 8.00 108 50-150

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



EOG Resources Inc. - Carlsbad	Project Name:	Gissler B #59	Reported:
104 South 4th Street	Project Number:	19034-0001	01/30/20 14:31
Artesia NM, 88210	Project Manager:	Robert Asher	

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%RUC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2005018 - DRO Extraction EPA 3570

Blank (2005018-BLK1)				Prepared: 01/28/201 Analyzed: 01/29/201						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	33.9		"	50.0		100	50-200			

LCS (2005018-BS1)				Prepared: 01/28/201 Analyzed: 01/29/201						
Diesel Range Organics (C10-C28)	442	25.0	mg/kg	500		88.3	38-132			
Surrogate: n-Nonane	23.4		"	50.0		90.9	50-200			

Matrix Spike (2005018-MS1)				Source: P001084-01		Prepared: 01/28/201 Analyzed: 01/29/201				
Diesel Range Organics (C10-C28)	1490	25.0	mg/kg	500	270	244	38-132			M2
Surrogate: n-Nonane	27.3		"	50.0		95.0	50-200			

Matrix Spike Dup (2005018-MSD1)				Source: P001084-01		Prepared: 01/28/201 Analyzed: 01/29/201				
Diesel Range Organics (C10-C28)	1520	25.0	mg/kg	500	270	250	38-132	2.10	38	M2
Surrogate: n-Nonane	27.2		"	50.0		94.5	50-200			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



EOG Resources Inc. - Carlsbad	Project Name:	Gissler D #59	Reported: 01/30/20 14:31
104 South 4th Street	Project Number:	19034-0001	
Artesia NM, 88210	Project Manager:	Robert Aulher	

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%RHC Limit	RPD	KPD Limit	Notes
Batch 2005015 - Purge and Trap EPA 5030A										
Blank (2005015-BLK1)				Prepared: 01/28/20 Analyzed: 01/29/20						
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	2.60		"	8.00		93.0	50-150			
LCS (2005015-BS2)				Prepared: 01/28/20 Analyzed: 01/29/20						
Gasoline Range Organics (C6-C10)	44.3	20.0	mg/kg	50.0		88.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	2.66		"	8.00		93.7	50-150			
Matrix Spike (2005015-MS2)				Source: P001075-01 Prepared: 01/28/20 Analyzed: 01/29/20						
Gasoline Range Organics (C6-C10)	45.0	20.0	mg/kg	50.0	ND	89.9	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	2.71		"	8.00		96.8	50-150			
Matrix Spike Dup (2005015-MSD2)				Source: P001075-01 Prepared: 01/28/20 Analyzed: 01/29/20						
Gasoline Range Organics (C6-C10)	44.3	20.0	mg/kg	50.0	ND	88.9	70-130	1.40	30	
Surrogate: 1-Chloro-4-fluorobenzene-FID	2.60		"	8.00		93.0	50-150			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



EOG Resources Inc. - Carlsbad	Project Name:	Gissler D #59	Reported:
104 South 4th Street	Project Number:	19034-0001	01/30/20 14:31
Artesia NM, 88210	Project Manager:	Robert Ashier	

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limit	RPD	RPD Limit	Notes
Batch 2005017 - Anion Extraction EPA 300.0/9056A										
Blank (2005017-B1.K1)				Prepared & Analyzed: 01/28/20 1						
Chloride	ND	20.0	mg/kg							
LCS (2005017-RS1)				Prepared & Analyzed: 01/28/20 1						
Chloride	247	20.0	mg/kg	250		98.8	90-110			
Matrix Spike (2005017-MS1)				Prepared & Analyzed: 01/28/20 1						
Chloride	1100	20.0	mg/kg	250	869	90.7	80-120			
Matrix Spike Dup (2005017-MSD1)				Prepared & Analyzed: 01/28/20 1						
Chloride	1150	20.0	mg/kg	250	869	112	80-120	4.77	30	

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



EOG Resources Inc. - Carlisbad	Project Name:	Gissler R #59	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Robert Asher	01/30/20 14:31

Notes and Definitions

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- RPD Relative Percent Difference
- ** Methods marked with ** are non-accredited methods.

Soil data is reported on an "as received" weight basis, unless reported otherwise.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Chain of Custody

Page 1 of 2

Client: EOG Resources, Inc.						Report Attention			Lab Use Only			EPA Program			
Project: Gissler B #59						Report due by: 1/30/2020			Lab WO# P001082			Job Number 19034-0001			
Project Manager: Robert Asher						Attention: Robert Asher						TAT			
Address: 104 South 4th Street						Address: 104 South 4th Street						1D 3D X			
City, State, Zip Artesia, NM 88210						City, State, Zip Artesia, NM 88210						RCRA CWA SDWA			
Phone: (575) 748-4217						Phone: (575) 748-4217						NM CO UT AZ			
Email: robert.asher@eogresources.com						Email: robert.asher@eogresources.com			Analysis and Method			State			
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/CORO by 8015	GNO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 3010				Remarks
12:33 PM	1/20/20	S	1	S-1.1	1	X	X	X		X					BGDOC
12:41 PM	1/20/20	S	1	S-2.1	2	X	X	X		X					BGDOC
12:44 PM	1/20/20	S	1	S-3.1	3	X	X	X		X					BGDOC
12:47 PM	1/20/20	S	1	S-4.1	4	X	X	X		X					BGDOC
12:51 PM	1/20/20	S	1	S-5.1	5	X	X	X		X					BGDOC
12:55 PM	1/20/20	S	1	S-6.1	6	X	X	X		X					BGDOC
1:00 PM	1/20/20	S	1	S-7.1	7	X	X	X		X					BGDOC
1:05 PM	1/20/20	S	1	S-8.1	8	X	X	X		X					BGDOC

Additional Instructions:
PO# 205632

I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabeling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by:

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<i>[Signature]</i>	1/22/2020	3:27 PM	<i>Raim Lopez</i>	1/23/20	9:30
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Container Type: **B - glass, p - poly/plastic, ag - amber glass, v - VOA**

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed at at the client expense. The report for the analysis of the above samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

envirotech
Analytical Laboratory

5796 US Highway 64, Farmington, NM 87401
24 hour Emergency Response Phone (800) 362-1879

PH (505) 632-0615 FX (505) 632-1865

envisio@envirotech-inc.com
labadm@envirotech-inc.com

Project Information				Chain of Custody				Page 2 of 2			
Client: EOG Resources, Inc.				Report Attention				EPA Program			
Project: Gissler B #59				Report due by: 1/30/2020				1D 3D			
Project Manager: Robert Asher				Attention: Robert Asher				RCRA CWA SDWA			
Address: 104 South 4th Street				Address: 104 South 4th Street				Analysis and Method			
City, State, Zip Artesia, NM 88210				City, State, Zip Artesia, NM 88210				State			
Phone: (575) 748-4217				Phone: (575) 748-4217				NM CO UT AZ			
Email: robert.asher@eogresources.com				Email: robert.asher@eogresources.com				X			
Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	Lab Use Only	Job Number	TAT	1D	3D	SDWA
1:09 PM	1/20/20	S	1	S-9.1	9	DTX by 8015	19034-0001	X			
1:13 PM	1/20/20	S	1	S-10.1	10	GRD/DRO by 8015		X			
1:16 PM	1/20/20	S	1	S-11.1	11	DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			
						GRD/DRO by 8015		X			
						DTX by 8015		X			



Analytical Report

Report Summary

Client: EOG Resources Inc. - Carlsbad

Samples Received: 2/14/2020

Job Number: 19034-0001

Work Order: P002037

Project Name/Location: Gissler B #59

Report Reviewed By:

A handwritten signature in black ink, appearing to read 'Walter Hinchman', is written over a horizontal line.

Date: 2/18/20

Walter Hinchman, Laboratory Director



Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.
Statement of Data Authenticity: Envirotech, Inc. attests the data reported has not been altered in any way.
Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.
Envirotech, Inc. holds the Utah TNI certification NM009792018-1 for the data reported.
Envirotech, Inc. holds the Texas TNI certification T104704557-19-2 for the data reported.



EOG Resources Inc. - Carlsbad	Project Name:	Gisler R #59	Reported: 02/18/20 13:29
104 South 4th Street	Project Number:	19034-0001	
Artesia NM, 88210	Project Manager:	Robert Asher	

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
SW-1.A	P002037-01A	Soil	02/12/20	02/14/20	Glass Jar, 4 oz.
SW-1.B	P002037-02A	Soil	02/12/20	02/14/20	Glass Jar, 4 oz.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



EOG Resources Inc. - Carlsbad
104 South 4th Street
Artesia NM, 88210

Project Name: Gissler B #59
Project Number: 19034-0001
Project Manager: Robert Anker

Reported:
02/18/20 13:29

SW-1.A
P002037-01 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-------	-------	----------	-------	----------	----------	--------	-------

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2007023	02/14/20	02/16/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2007023	02/14/20	02/16/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2007023	02/14/20	02/16/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2007023	02/14/20	02/16/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2007023	02/14/20	02/16/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2007023	02/14/20	02/16/20	EPA 8021B	
S surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	2007023	02/14/20	02/16/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2007023	02/14/20	02/16/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2007023	02/14/20	02/16/20	EPA 8015D	
S surrogate: n-Nonane		99.7 %		50-200	2007023	02/14/20	02/16/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2007023	02/14/20	02/16/20	EPA 8015D	
S surrogate: 1-Chloro-2-fluorobenzene-PID		88.1 %		50-150	2007023	02/14/20	02/16/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	301	20.0	mg/kg	1	2007038	02/14/20	02/14/20	EPA 300.0/9056A	
----------	-----	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



EOG Resources Inc. - Carlisbad
104 South 4th Street
Artesia NM, 88210

Project Name: Gissler B #59
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
02/18/20 13:29

SW-1.B
P002037-02 (Solid)

Reporting

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	-------	-------	----------	-------	----------	----------	--------	-------

Volatile Organics by EPA 8021

Benzene	ND	0.0250	mg/kg	1	2007023	02/14/20	02/16/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2007023	02/14/20	02/16/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2007023	02/14/20	02/16/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2007023	02/14/20	02/16/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2007023	02/14/20	02/16/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2007023	02/14/20	02/16/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %		50-150	2007023	02/14/20	02/16/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/ORO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2007023	02/14/20	02/14/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2007023	02/14/20	02/14/20	EPA 8015D	
Surrogate: n-Nonane		92.5 %		50-200	2007023	02/14/20	02/14/20	EPA 8015D	

Nonhalogenated Organics by 8015 - GRO

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2007023	02/14/20	02/16/20	EPA 8015D	
Surrogate: 1-Chloro-2-fluorobenzene-PID		87.9 %		50-150	2007023	02/14/20	02/16/20	EPA 8015D	

Anions by 300.0/9056A

Chloride	60.4	20.0	mg/kg	1	2007028	02/14/20	02/14/20	EPA 300.0/9056A	
----------	------	------	-------	---	---------	----------	----------	--------------------	--

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



EOG Resources Inc. - Carlshad	Project Name:	Gissler B #59	Reported:
104 South 4th Street	Project Number:	19034-0001	02/18/20 13:29
Artesia NM, 88210	Project Manager:	Robert Asher	

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analytic	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
----------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2007023 - Purge and Trap EPA 5030A

Blank (2007023-BL.K1)

Prepared: 02/14/20 0 Analyzed: 02/16/20 1

Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 1-Bromochlorobenzene-PID	8.01		"	8.00		100	50-130			

ICS (2007023-BS1)

Prepared: 02/14/20 0 Analyzed: 02/16/20 1

Benzene	4.70	0.0250	mg/kg	5.00		93.9	70-130			
Toluene	4.83	0.0250	"	5.00		96.7	70-130			
Ethylbenzene	4.76	0.0250	"	5.00		95.2	70-130			
p,m-Xylene	9.48	0.0500	"	10.0		94.8	70-130			
o-Xylene	4.72	0.0250	"	5.00		94.4	70-130			
Total Xylenes	14.2	0.0250	"	15.0		94.6	0-200			
Surrogate: 1-Bromochlorobenzene-PID	8.33		"	8.00		103	50-130			

Matrix Spike (2007023-MS1)

Source: P002033-01

Prepared: 02/14/20 0 Analyzed: 02/16/20 1

Benzene	4.98	0.0250	mg/kg	5.00	0.0478	98.7	54.3-133			
Toluene	5.03	0.0250	"	5.00	0.0263	100	61.4-130			
Ethylbenzene	4.95	0.0250	"	5.00	ND	99.1	61.4-133			
p,m-Xylene	9.85	0.0500	"	10.0	ND	98.3	63.3-131			
o-Xylene	4.99	0.0250	"	5.00	ND	99.0	63.3-131			
Total Xylenes	14.7	0.0250	"	15.0	ND	98.3	0-200			
Surrogate: 1-Bromochlorobenzene-PID	8.14		"	8.00		102	50-130			

Matrix Spike Dup (2007023-MSD1)

Source: P002033-01

Prepared: 02/14/20 0 Analyzed: 02/16/20 1

Benzene	5.02	0.0250	mg/kg	5.00	0.0478	99.4	54.3-133	0.690	20	
Toluene	5.12	0.0250	"	5.00	0.0263	102	61.4-130	1.69	20	
Ethylbenzene	5.03	0.0250	"	5.00	ND	101	61.4-133	1.54	20	
p,m-Xylene	10.0	0.0500	"	10.0	ND	100	63.3-131	1.71	20	
o-Xylene	5.03	0.0250	"	5.00	ND	101	63.3-131	2.61	20	
Total Xylenes	15.0	0.0250	"	15.0	ND	100	0-200	2.01	200	
Surrogate: 1-Bromochlorobenzene-PID	8.18		"	8.00		102	50-130			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



EOG Resources Inc. - Carlshad
104 South 4th Street
Artesia NM, 88210

Project Name: Gissler B #59
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
02/18/20 13:29

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2007025 - DRO Extraction EPA 3570

Blank (2007025-BL K1)

Prepared: 02/14/20 0 Analyzed: 02/14/20 1

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	51.7		"	50.0		103	50-200			

LCS (2007025-BL1)

Prepared: 02/14/20 0 Analyzed: 02/14/20 1

Diesel Range Organics (C10-C28)	436	25.0	mg/kg	500		87.2	38-132			
Surrogate: n-Nonane	48.5		"	50.0		96.9	50-200			

Matrix Spike (2007025-MS1)

Source: P002033-01

Prepared: 02/14/20 0 Analyzed: 02/14/20 1

Diesel Range Organics (C10-C28)	473	25.0	mg/kg	500	ND	94.5	38-132			
Surrogate: n-Nonane	51.0		"	50.0		102	50-200			

Matrix Spike Dup (2007025-MSD1)

Source: P002033-01

Prepared: 02/14/20 0 Analyzed: 02/17/20 1

Diesel Range Organics (C10-C28)	465	25.0	mg/kg	500	ND	93.0	38-132	1.68	20	
Surrogate: n-Nonane	49.6		"	50.0		99.1	50-200			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



LOG Resources Inc. - Carlshad
104 South 4th Street
Artesia NM, 88210

Project Name: Gissler R #59
Project Number: 19034-0001
Project Manager: Robert Asher

Reported:
02/18/20 13:29

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2007023 - Purge and Trap EPA 5030A

Blank (2007023-BLK1)

Prepared: 02/14/20 0 Analyzed: 02/16/20 1

Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.03		*	8.00		87.9	50-150			

LCS (2007023-BS2)

Prepared: 02/14/20 0 Analyzed: 02/16/20 1

Gasoline Range Organics (C6-C10)	48.5	20.0	mg/kg	50.0	ND	97.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.14		*	8.00		89.3	50-150			

Matrix Spike (2007023-MS2)

Source: P002033-01

Prepared: 02/14/20 0 Analyzed: 02/16/20 1

Gasoline Range Organics (C6-C10)	49.2	20.0	mg/kg	50.0	ND	98.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.04		*	8.00		88.0	50-150			

Matrix Spike Dup (2007023-MSD2)

Source: P002033-01

Prepared: 02/14/20 0 Analyzed: 02/16/20 1

Gasoline Range Organics (C6-C10)	46.7	20.0	mg/kg	50.0	ND	93.3	70-130	5.16	30	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.13		*	8.00		89.4	50-150			

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



EOG Resources Inc. - Carlsbad	Project Name:	Gissler B #59	Reported:
104 South 4th Street	Project Number:	19034-0001	02/18/20 13:29
Artesia NM, 88210	Project Manager:	Robert Asher	

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2007028 - Anion Extraction EPA 300.0/9056A										
Blank (2007028-BLK1)										
Chloride	Nil	20.0	mg/kg							Prepared & Analyzed: 02/14/20 1
LCS (2007028-BS1)										
Chloride	248	20.0	mg/kg	250		99.2	90-110			Prepared & Analyzed: 02/14/20 1
Matrix Spike (2007028-MS1)										
Chloride	2260	20.0	mg/kg	250	1720	217	80-120			Source: P002033-01 Prepared & Analyzed: 02/14/20 1 M2
Matrix Spike Dup (2007028-MSD1)										
Chloride	1950	20.0	mg/kg	250	1720	92.7	80-120	14.8	20	Source: P002033-01 Prepared & Analyzed: 02/14/20 1

QC Summary Report

Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.



EOG Resources Inc. - Carlsbad	Project Name:	Gissler B #59	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Robert Asher	02/18/20 13:29

Notes and Definitions

M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

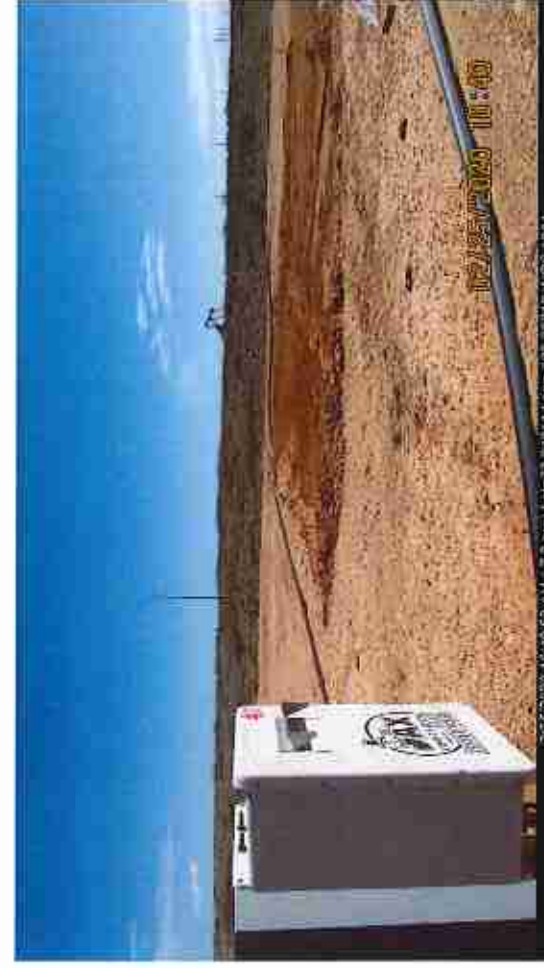
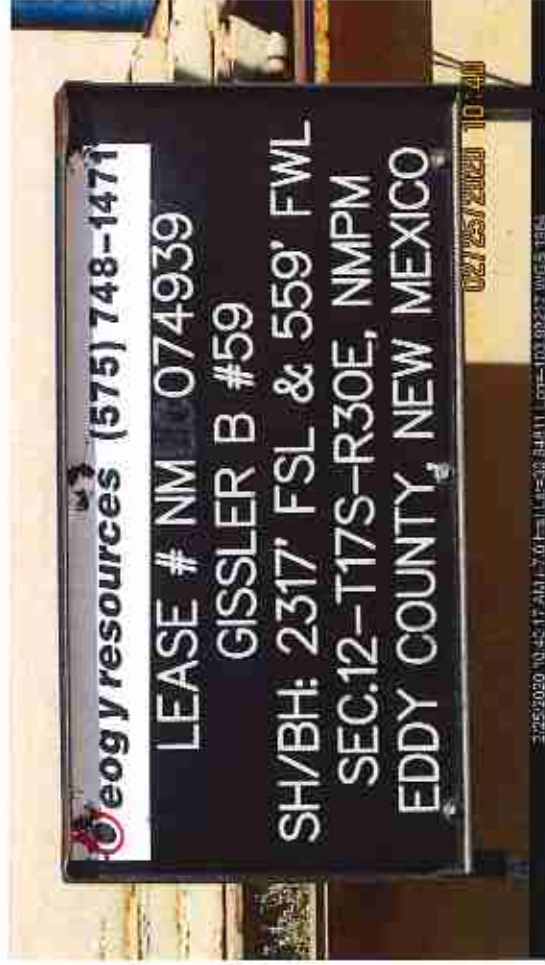
** Methods marked with ** are non-accredited methods.

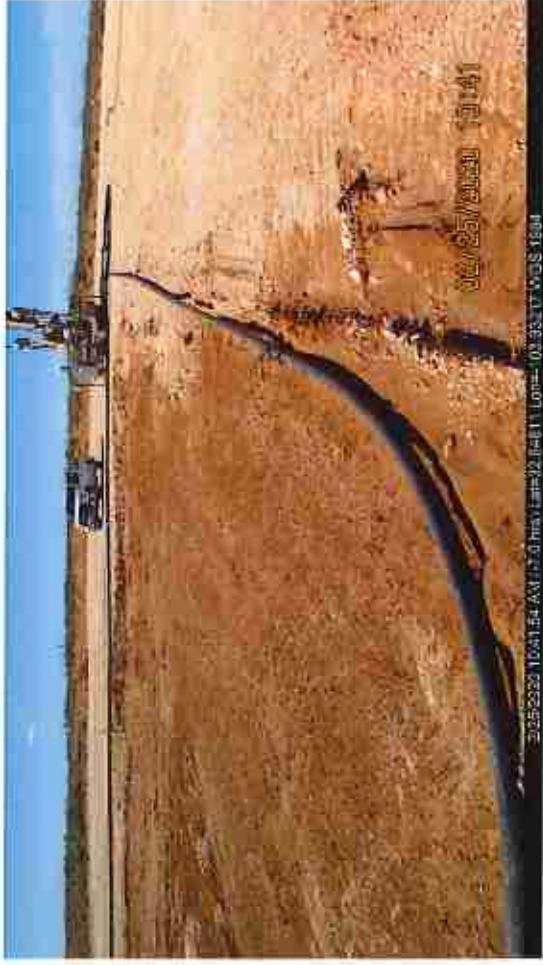
Soil data is reported on an "as received" weight basis, unless reported otherwise.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech, Inc.

Appendix 7

Photos











Appendix 8

Form C-141

Release Notification

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 Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Y Resources, Inc.	OGRID 25575
Contact Name Robert Asher	Contact Telephone 575-748-4217
Contact email bob_asher@eogresources.com	Incident # (assigned by OCD)
Contact mailing address 104 S. 4 th	

Location of Release Source

Latitude 32.84814 Longitude -103.93229
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Gissler B #59	Site Type: Well Pad
Date Release Discovered: 12/3/2019	API# 30-015-37733

Unit Letter	Section	Township	Range	County
L	12	17S	30E	Eddy

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls) 9	Volume Recovered (bbls) 8
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water > 10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

SDR 11 poly flow line split due to obstruction or paraffin plug, east of pumping unit on location.

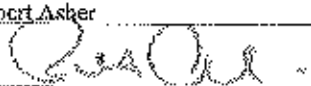
State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped. ☒ The impacted area has been secured to protect human health and the environment. ☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. ☒ All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.
Printed Name: <u>Robert Asher</u>
Title: <u>Environmental Supervisor</u>
Signature: 
Date: <u>12/17/2019</u>
email: <u>bob_asher@cogresources.com</u>
Telephone: <u>575-748-4217</u>
OCD Only
Received by: _____ Date: _____

Bob Asher

From: Katie Jamison
Sent: Tuesday, December 17, 2019 8:47 AM
To: Bob Asher; Yvette Moore
Subject: FW: OCD Receipt of Fee Application Payment
Attachments: OCDReceiptOfFeePayment.pdf

Receipt for the Gissler B #59 Initial C-141 submission

From: OCDOnline@state.nm.us <OCDOnline@state.nm.us>
Sent: Tuesday, December 17, 2019 8:44 AM
To: Katie Jamison <Katie_Jamison@eogresources.com>
Subject: OCD Receipt of Fee Application Payment

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Thank you for your fee application payment! Your receipt is attached.

PO Number: 46TB4-191217-C-1410
Payment Date: 12/17/2019
Payment Amount: \$150.00
Payment Type: Credit Card

Application Type: Application for administrative approval of a release notification and corrective action.
Fee Amount: \$150.00
Application Status: Under OCD Review

OGRID: 7377
First Name: Katie
Last Name: Jamison
Email: katie.jamison@eogresources.com

IMPORTANT: If you are mailing or delivering your application, you must print and include your receipt of payment as the first page on your application. All mailed and delivered applications must be sent to the following address: 1220 S. St. Francis Dr., Santa Fe, NM 87505. For inquiries, reference the PO Number listed above.

Oil Conservation Division * 1220 South St. Francis Drive * Santa Fe, New Mexico 87505
(505) 476-3441 * ocd.fees@state.nm.us * www.cmnrd.state.nm.us/OCD

This is an automated email please do not reply.

12/17/2019

State of New Mexico
Energy, Minerals and Natural Resources Department
Oil Conservation Division

Receipt of Fee Application Payment



PO Number: 46TB4-191217-C-1410

Payment Date: 12/17/2019 8:43:49 AM

Payment Amount: \$150.00

Payment Type: Credit Card

Application Type: Application for administrative approval of a release notification and corrective action.

Fee Amount: \$150.00

Application Status: Under OCD Review

OGRID: 7377

First Name: Katie

Last Name: Jamison

Email: katie_jamison@energyresources.com

IMPORTANT: If you are mailing or delivering your application, you must print and include your receipt of payment as the first page on your application. All mailed and delivered applications must be sent to the following address: 1220 S. St. Francis Dr., Santa Fe, NM 87505. For inquiries, reference the PO Number listed above.

Appendix 9

Form C-141

Site Assessment/Characterization/Remediation Plan

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	361.25' (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: Each of the following items must be included in the report.

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Robert AsherTitle: Environmental SupervisorSignature: Date: 2/26/2020email: bob_asher@eogresources.comTelephone: 575-748-4217**OCD Only**

Received by: _____

Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	NRM2002942397
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

- ☒ Detailed description of proposed remediation technique
- ☒ Scaled sitemap with GPS coordinates showing delineation points
- ☒ Estimated volume of material to be remediated
- ☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

- ☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- ☐ Extents of contamination must be fully delineated.
- ☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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.

Printed Name: Robert Asher

Title: Environmental Supervisor

Signature: 

Date: 2/26/2020

email: bob_asher@eogresources.com

Telephone: 575-748-4217

OCD Only

Received by: _____ Date: _____

☐ Approved

☐ Approved with Attached Conditions of Approval

☐ Denied

☐ Deferral Approved

Signature: _____

Date: _____