



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

EOG Resources, Inc.

***Characterization &
Remediation Plan***

Gissler B #59

30-015-37733

Section 12, T17S-R30E

Eddy County, New Mexico

September 1, 2021



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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. After a site check was conducted and additional 12" of pad material was excavated and disposed (approximately 230 cubic yards) at an NMOCD approved facility.

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),

EOG Resources had a third party drill a monitor well for depth to ground water determination (5/21/2021). See Appendix 2.

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

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 initial excavation work (please refer to II. Background) of impacted soils (approximately 300 cubic yards) and the 1/20/2020 and 2/13/2020 enclosed analytical results, EOG will have a consultant/contractor continue to excavate/field sample until chloride and TPH levels are at or below Table I, Closure Criteria \leq 50 feet levels/limits. EOG Resources 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 300 cubic yards of clean/like backfill material.



VII. Site Closure

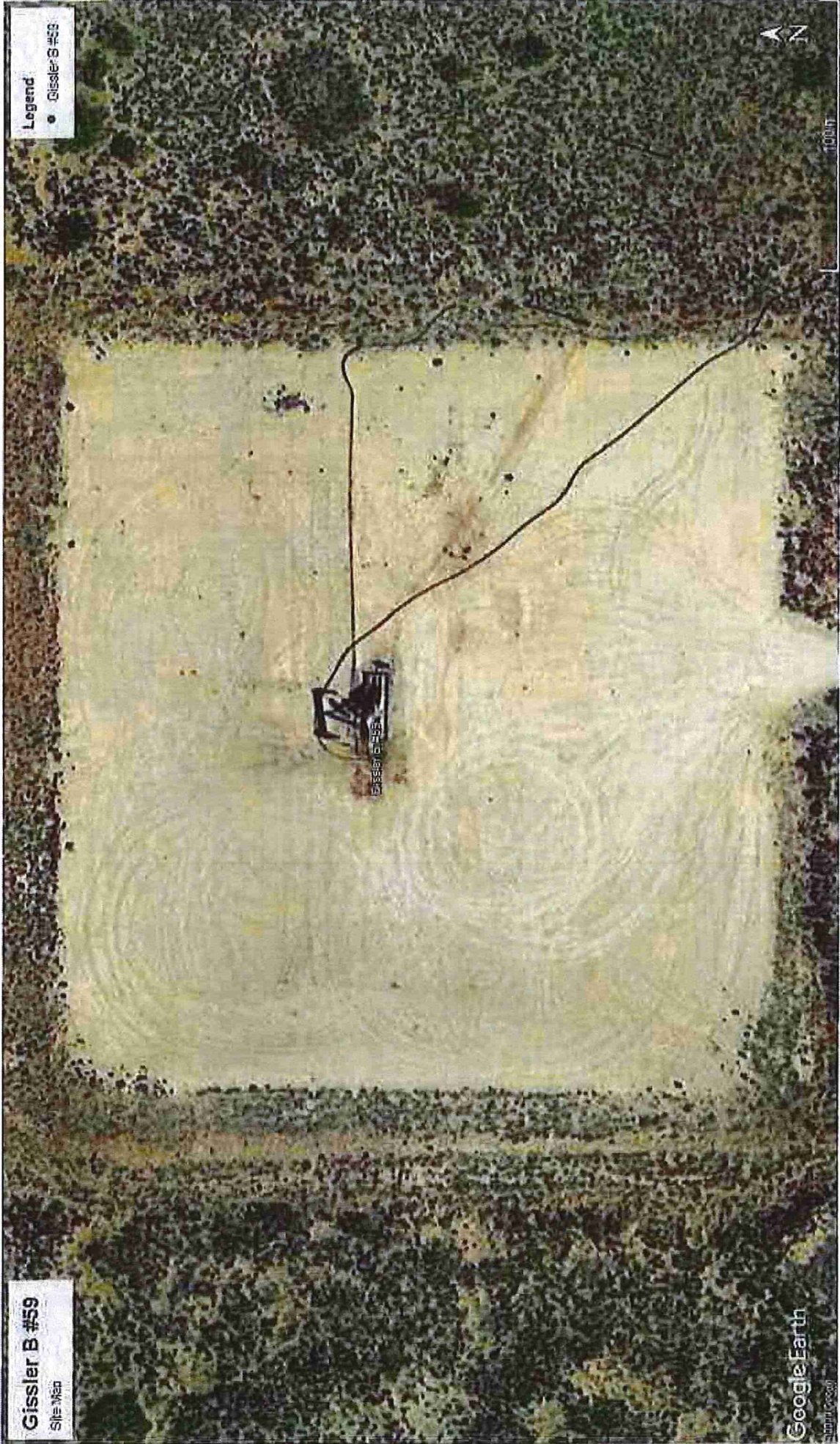
Upon completion of the remedial and backfilling activities, EOG Resources, Inc. will submit a Form C-141/Closure to the NMOCD, including the Closure Report Attachment Checklist.



Appendix 1

Site/Topo Map





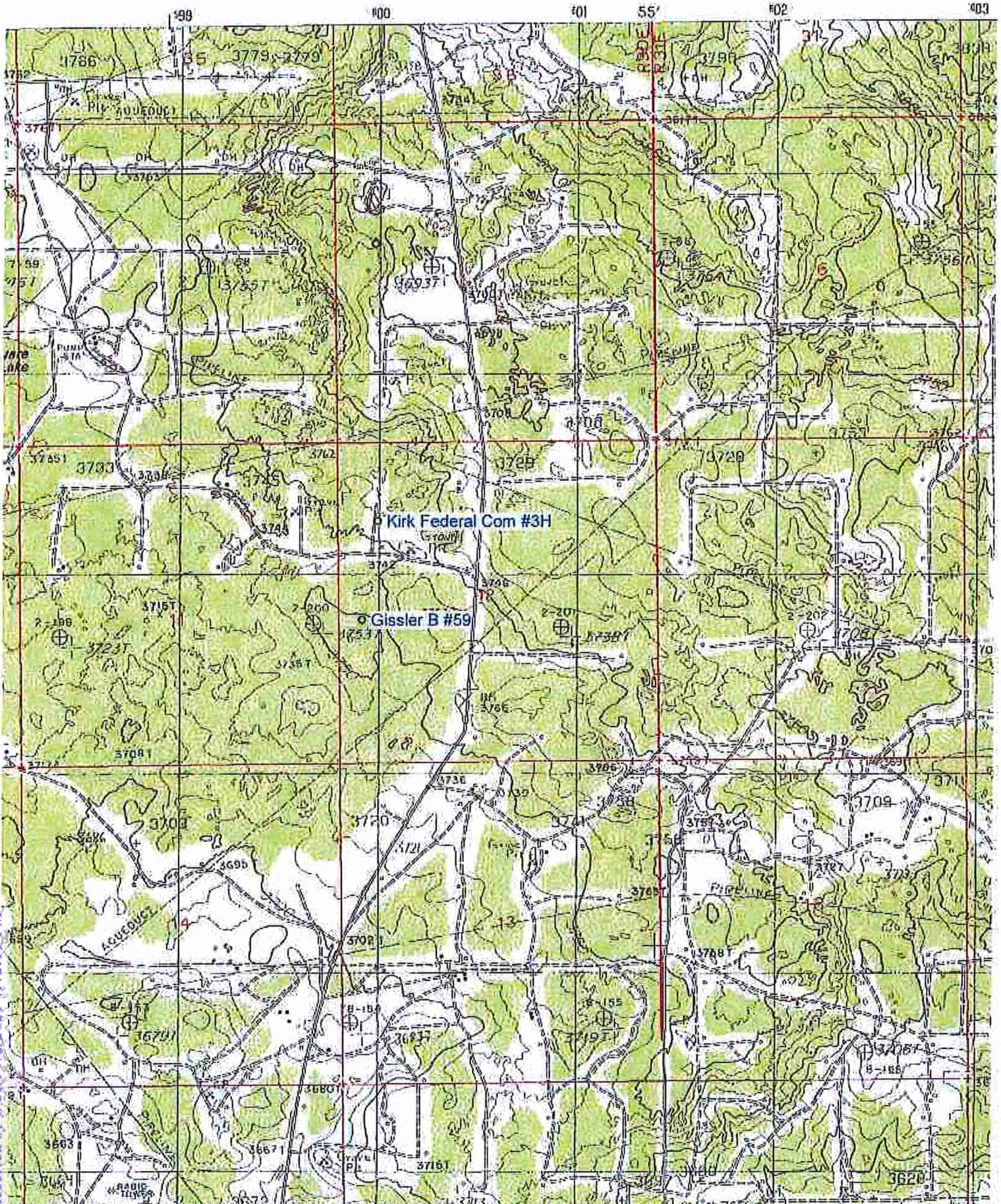


Gissler B #59

Scaled site map showing impacted area.

Legend

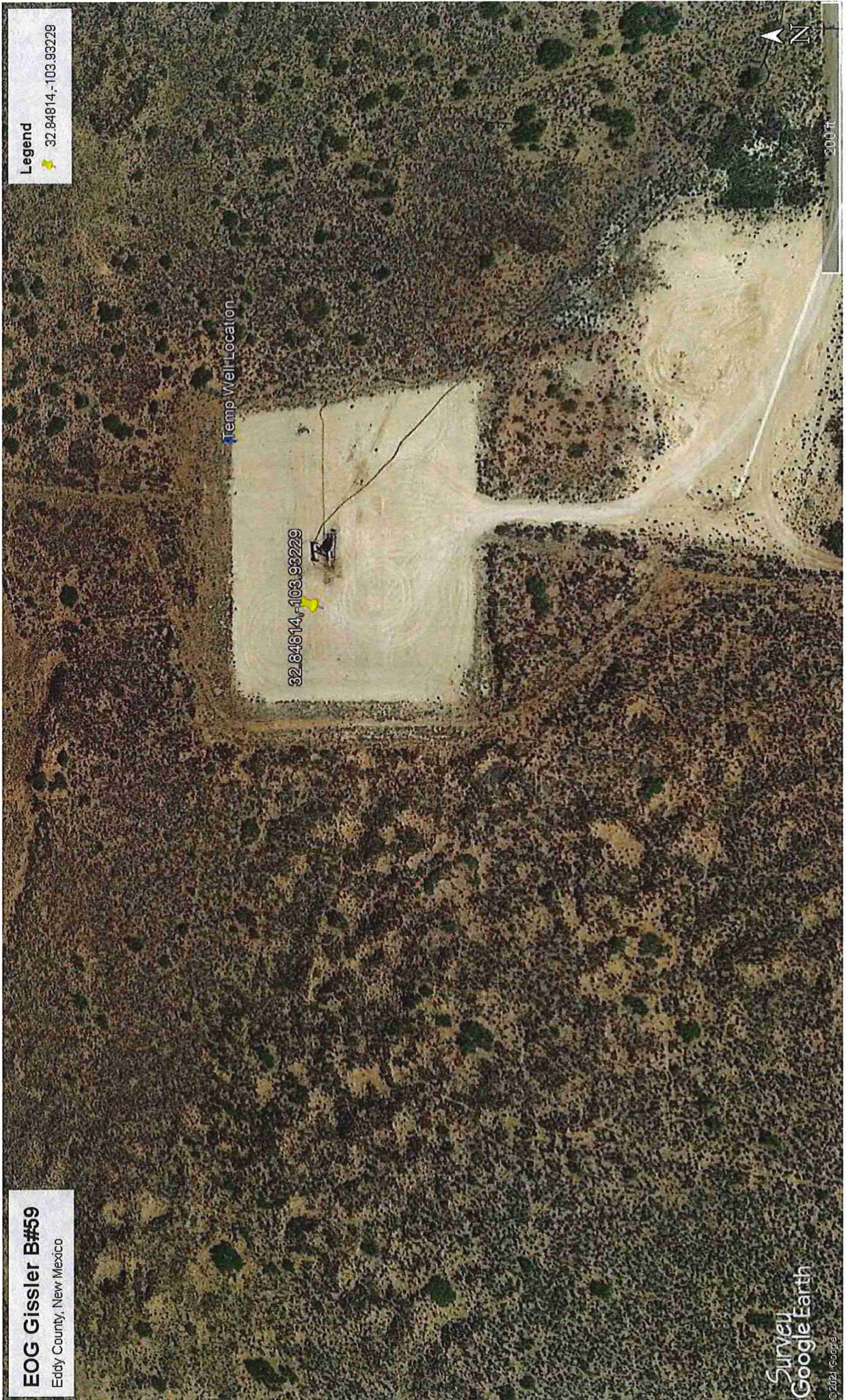
- Gissler B #59
- Impacted Area



Appendix 2

Depth to Ground Water






EOG Gissler B#59

Eddy County, New Mexico

Legend

 32.84614, -103.93229



BORING LOG

Project No.: 700438.240.01

Weather: Clear, Temp.: 80°F

Driller: D. Londagin

Site Name: Gissler B #59

Logger: D. Adkins

Rig Type: Reich Drill

Location: Eddy County, New Mexico

Field Instrument: NA

Bit Size: 5-7/8"

Date: 5/20/2021

Latitude: 32.848420 N

Drilling Method: Air Rotary

Boring Number: B-1

Longitude: -103.931751 W

Sample Retrieval Method: Drill Cuttings

Time	Lab Sample Collected	Sample Interval (ft)	Sample Recovery (ft)	USCS	Composition (%)	Sample Material/Comments Include composition, color, grain size, moisture, hardness, plasticity, density	Hydrocarbon Odor	PID (ppm)
	<input checked="" type="checkbox"/>	0-20'				Red/Brown fine Sand (SP)	None Slight Mod. Strong	
	<input type="checkbox"/>	20-30'				Light red/tan fine Sand (SP) and caliche	None Slight Mod. Strong	
	<input type="checkbox"/>	30-105'				Red/brown fine Sand (SP)	None Slight Mod. Strong	
	<input type="checkbox"/>					__ TD 105' __	None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	

Surface Elevation: _____

Notes: Groundwater Not Encountered at 105-feet BGS-72 hr.

Logger Initials: DJA

Time	Lab Sample Collected	Sample Interval (ft)	Sample Recovery (ft)	USCS	Composition (%)	Sample Material/Comments Include composition, color, grain size, moisture, hardness, plasticity, density	Hydrocarbon Odor None Slight Mod. Strong	PID (ppm)
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	
	<input type="checkbox"/>						None Slight Mod. Strong	

Notes: The borehole was advanced to 105' below ground surface (bgs). A 2-inch diameter temporary well constructed of schedule 40 PVC thread coupled to 10-feet of machine slotted well screen was installed in the open borehole. 72-hours after installation, a Solinest water level meter was utilized to determine the presence or absence of groundwater. The temporary well casing was subsequently removed and the bore hole backfilled with hole plug (bentonite chips) and hydrated.



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USGS 325216103575701 16S.30E.33.42443

Available data for this site

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
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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)



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site_no list =
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Minimum number of levels = 1

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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

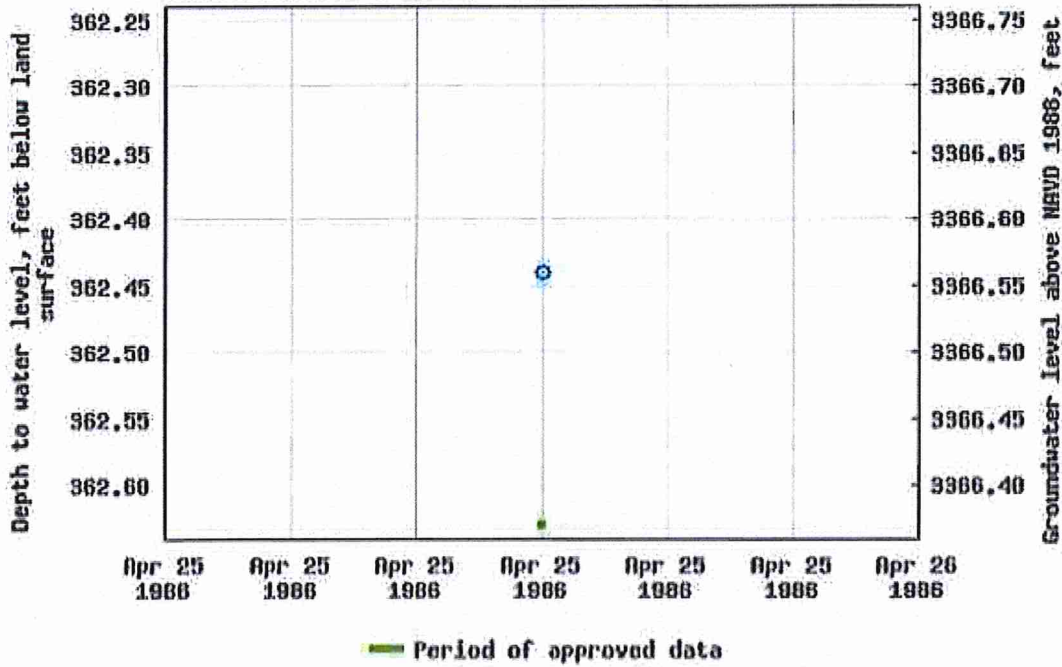
The depth of the well is 385 feet below land surface.

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

Output formats

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

USGS 925216103575701 16S,30E,33,42449



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

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USGS 325210103580101 16S.30E.33.44233

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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
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agency_code=USGS&site_no=325210103580101

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Minimum number of levels = 1

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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

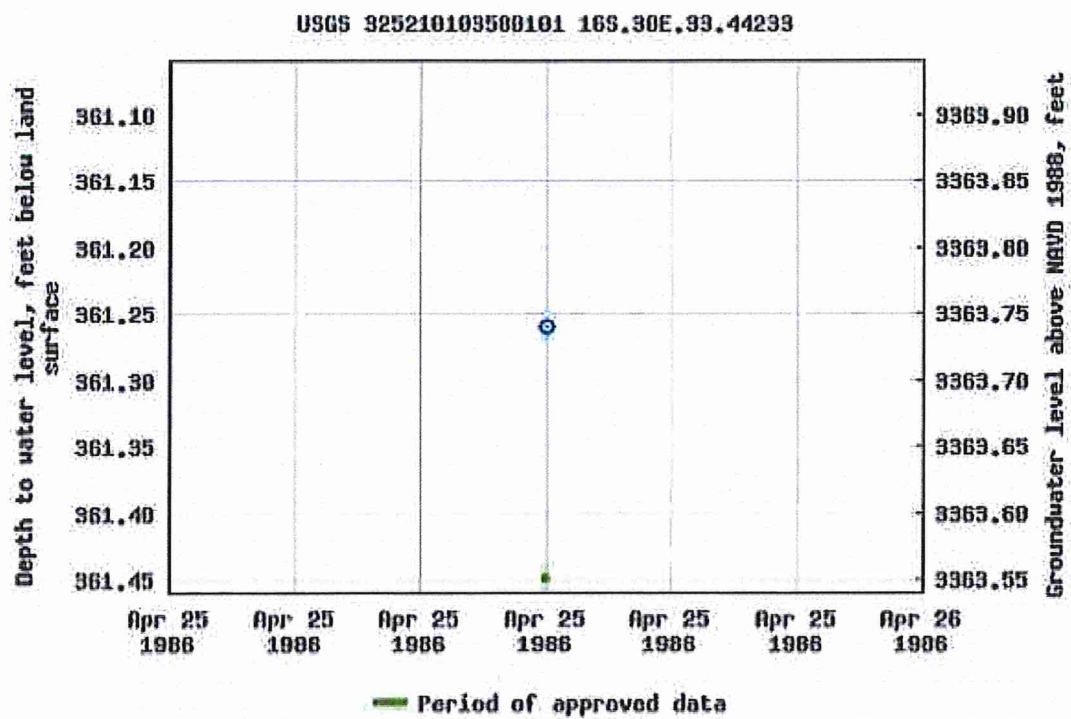
Land-surface elevation 3,725 feet above NAVD88

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.

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Title: Groundwater for USA: Water Levels

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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	

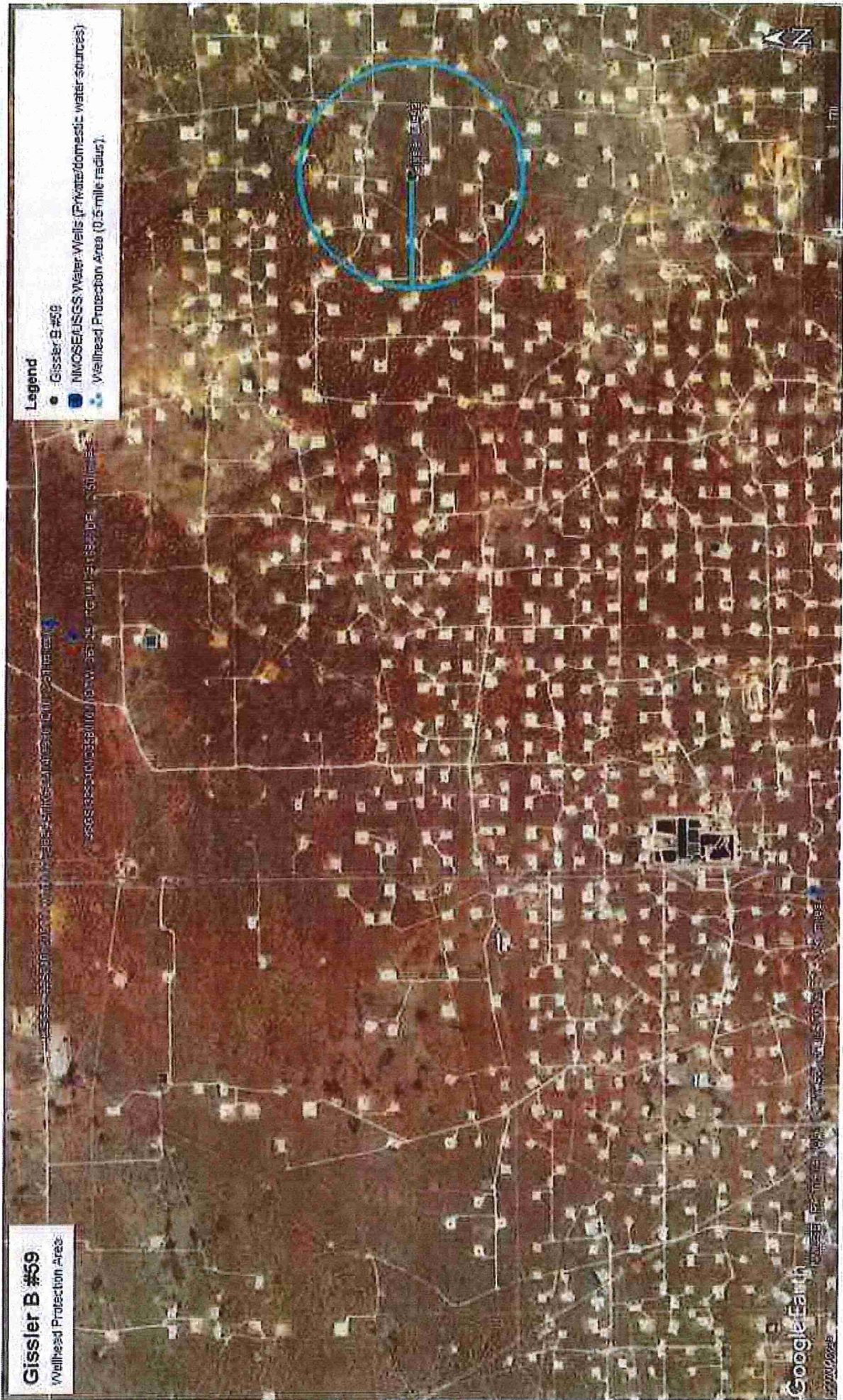
Water Bearing Stratifications:	Top	Bottom	Description
	11	85	Sandstone/Gravel/Conglomerate

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

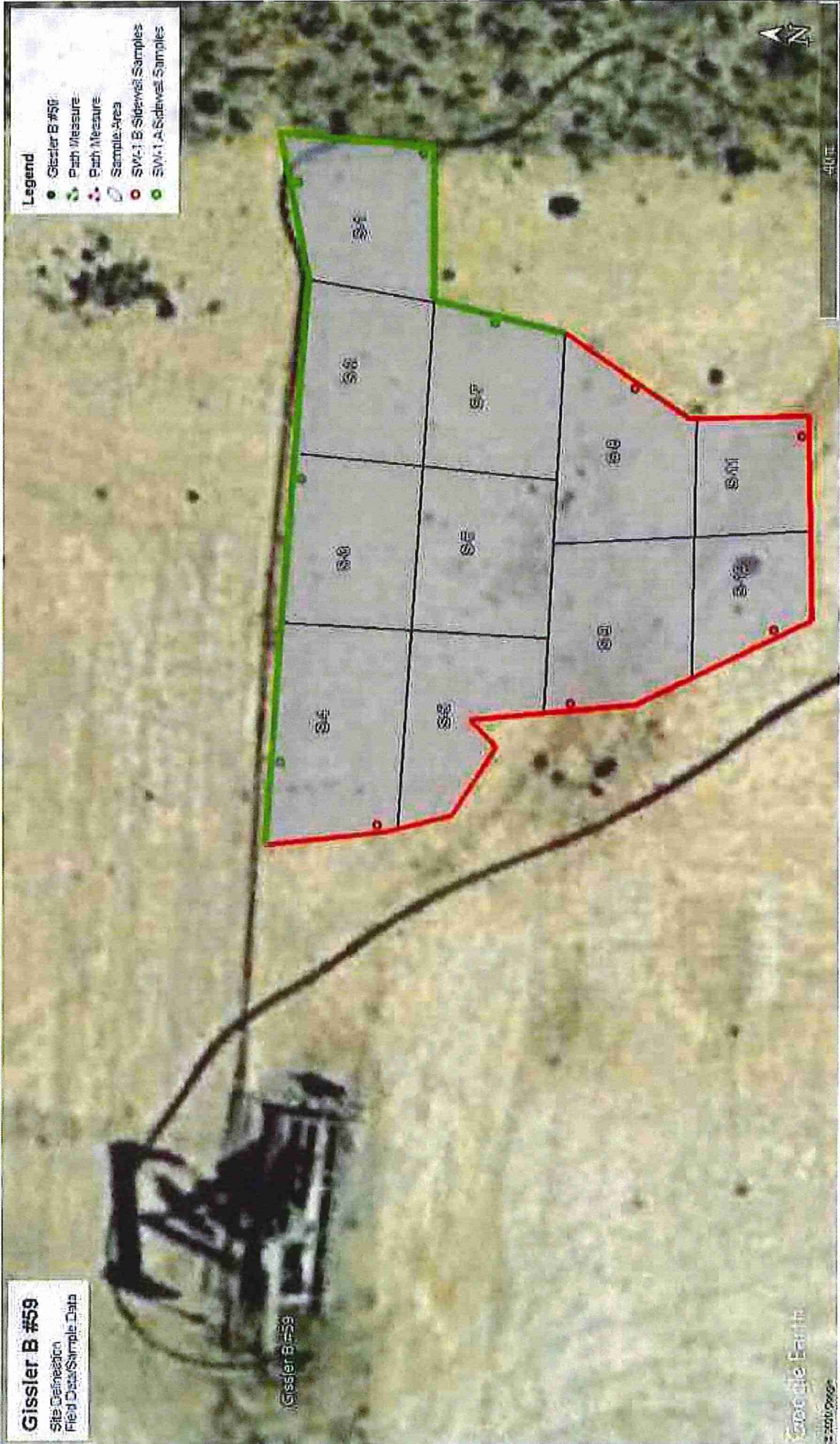
Distance to Nearest Significant Watercourse





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	610	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-2B	1'	2/13/20	60.4	0	0	0.0000	0.0000

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 8280B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8280B	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:

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.
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Envirotech, Inc. holds the Utah TNI certification NM009792010-1 for the data reported.
Envirotech, Inc. holds the Texas TNI certification T104704557-19-2 for the data reported.





FOCI Resources Inc. - Carlshad 104 South 4th Street Artesia NM, 88210	Project Name: Giesler 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.

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

S-1.1
P001082-01 (Solid)

Analyte	Reporting				Batch	Prepared	Analyzed	Method	Notes
	Result	Limit	Units	Dilution					
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-Bromo-4-chlorobenzene (M)</i>		106 %		50-150	2005015	01/28/20	01/29/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/RO									
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 (M)</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	

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**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 (P1)		106%		50-150	2005015	01/28/20	01/30/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/RO

Diesel Range Organics (C10-C28)	47.9	25.0	mg/kg	1	2005018	01/28/20	01/30/20	EPA 8015B	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005018	01/28/20	01/30/20	EPA 8015D	
Surrogate: n-Nonane		94.9%		50-200	2005018	01/28/20	01/30/20	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 (P1)		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	
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EOG Resources Inc. - Carlshad 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
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**S-3.1
P001082-03 (Solid)**

Analyte	Result	Reporting			Batch	Prepared	Analyzed	Method	Notes
		Limit	Units	Dilution					
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	µg/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: 4-Dimethylchlorobenzene-PID</i>		107 %		50-150	2005015	01/28/20	01/30/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/RO									
Diesel Range Organics (C10-C28)	32.1	25.0	mg/kg	1	2005018	01/28/20	01/29/20	EPA 8015B	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2005018	01/28/20	01/29/20	EPA 8015D	
<i>Surrogate: n Nonane</i>		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	
<i>Surrogate: 1-Chloro-1-fluoroethane-EID</i>		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	

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EOG Resources Inc. - Carlsbad 104 South 4th Street Aitesia NM, 88210	Project Name: Gissler R #59 Project Number: 19034-0001 Project Manager: Robert Asher	Reported: 01/30/20 14:31
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**S-4.1
P001082-04 (Solid)**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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)	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		91.2 %		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 (F11)		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	
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EOG Resources Inc. - Carlisbad 104 South 4th Street Alhambra NM, 88210	Project Name: Cluster B #59 Project Number: 19034-0001 Project Manager: Robert Asher	Reported: 01/30/20 14:31
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**S-5.1
P001082-05 (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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		105 %		50-150	2005015	01/28/20	01/30/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/RO									
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	
<i>Surrogate: n Nonane</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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	

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**S-6.1
P001082-06 (Solid)**

Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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Volatle Organics by EPA 8021

Benzene	ND	0.0250	µg/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	
<i>Surrogate: 4-Methylchlorobenzene-P10</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-F10</i>		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	
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**S-7.1
P001082-07 (Solid)**

Reporting									
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes

Volatle 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	0.0354	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-P1D		108 %		50-150	2005015	01/28/20	01/30/20	EPA 8021B	

Nonhalogenated Organics by 8015 - DRO/GRO

Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2005018	01/29/20	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-F1D		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	
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FOG Resources Inc. - Carlstad 104 South 4th Street Atesia NM, 88210	Project Name: Gisser H #59 Project Number: 19034-0001 Project Manager: Robert Asher	Reported: 01/30/20 14:31
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**S-8.1
P001082-08 (Solid)**

Analyte:	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
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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>S surrogate: 1,3-Dinitrochlorobenzene-PID</i>		107%		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	
<i>S surrogate: n-Nonane</i>		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	
<i>S surrogate: 1,1-Dichloro-1-fluoroethane-PID</i>		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	
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**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	
m-Xylene	ND	0.0500	mg/kg	1	2005015	01/28/20	01/30/20	EPA 8021B	
p-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: 4-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)	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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		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	2005017	01/28/20	01/28/20	EPA 300.0/9056A	
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S-10.1
P001082-10 (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-FID		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	

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**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	
<i>Surrogate: 4-Bromochlorobenzene-P10</i>		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	
<i>Surrogate: n-Nonane</i>		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	
<i>Surrogate: 1-Chloro-4-fluorobenzene-F10</i>		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	
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FOG Resources Inc. - Carlsbad 104 South 4th Street Artesia NM, 88210	Project Name: Gissler D #59 Project Number: 19034-0001 Project Manager: Robert Asher	Report Date: 01/30/20 14:21
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Volatile Organics by EPA 8021 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Unit	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2005015 - Purge and Trap EPA 5030A										
Blank (2005015-BLK1)										
				Prepared: 01/28/20 1 Analyzed: 01/29/20 1						
Benzene	ND	0.0250	µg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0375	"							
Surrogate: 1,2-Dimethylbenzene-PID	8.49		"	8.00		106	50-150			
L.C.N (2005015-BN1)										
				Prepared: 01/28/20 1 Analyzed: 01/29/20 1						
Benzene	5.34	0.0250	µg/kg	5.00		107	70-120			
Toluene	5.34	0.0250	"	5.00		107	70-120			
Ethylbenzene	5.31	0.0250	"	5.00		109	70-120			
p,m-Xylene	10.6	0.0500	"	10.0		106	70-120			
o-Xylene	5.34	0.0250	"	5.00		107	70-120			
Total Xylenes	15.9	0.0250	"	15.0		106	70-120			
Surrogate: 1,2-Dimethylbenzene-PID	8.56		"	8.00		107	50-150			
Matrix Spike (2005015-MS1)										
				Source: P001075-01 Prepared: 01/28/20 1 Analyzed: 01/29/20 1						
Benzene	5.05	0.0250	µg/kg	5.00	ND	101	54.3-133			
Toluene	5.03	0.0250	"	5.00	ND	101	61.4-130			
Ethylbenzene	5.01	0.0250	"	5.00	ND	100	61.4-123			
p,m-Xylene	10.0	0.0500	"	10.0	ND	100	63.3-131			
o-Xylene	5.05	0.0250	"	5.00	ND	101	63.3-121			
Total Xylenes	15.1	0.0250	"	15.0	ND	100	63.3-121			
Surrogate: 1,2-Dimethylbenzene-PID	8.66		"	8.00		103	50-150			
Matrix Spike Dup (2005015-MSD1)										
				Source: P001075-01 Prepared: 01/28/20 1 Analyzed: 01/29/20 1						
Benzene	5.17	0.0250	µg/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	61.4-123	2.14	20	
p,m-Xylene	10.2	0.0500	"	10.0	ND	102	63.3-131	2.02	20	
o-Xylene	5.15	0.0250	"	5.00	ND	103	63.3-121	1.98	20	
Total Xylenes	15.4	0.0250	"	15.0	ND	103	63.3-121	2.04	20	
Surrogate: 1,2-Dimethylbenzene-PID	8.63		"	8.00		104	50-150			

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EOG Resources Inc. - Carlsbad 104 South 4th Street Artesia NM, 88210	Project Name: Gisler B #59 Project Number: 19034-0001 Project Manager: Robert Asher	Reported: 01/30/20 14:31
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Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%RDC Limits	RPD	RPD Limit	Notes
Batch 2005018 - DRO Extraction EPA 3570										
Blank (2005018-BLK1)				Prepared: 01/28/20 Analyzed: 01/29/20 0						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	*							
Surrogate: n-Nonane	33.0		*	50.0		100	50-100			
LCS (2005018-BS1)				Prepared: 01/28/20 Analyzed: 01/29/20 0						
Diesel Range Organics (C10-C28)	442	25.0	mg/kg	500		89.2	30-132			
Surrogate: n-Nonane	33.2		*	50.0		99.0	50-100			
Matrix Spike (2005018-MS1)				Source: P001084-01		Prepared: 01/28/20 Analyzed: 01/29/20 0				
Diesel Range Organics (C10-C28)	1490	25.0	mg/kg	500	270	211	30-132			M2
Surrogate: n-Nonane	27.3		*	50.0		92.0	50-100			
Matrix Spike Dup (2005018-MSD1)				Source: P001084-01		Prepared: 01/28/20 Analyzed: 01/29/20 0				
Diesel Range Organics (C10-C28)	1520	25.0	mg/kg	500	235	250	30-132	2.10	30	M2
Surrogate: n-Nonane	27.3		*	50.0		92.3	50-100			

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EOG 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
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Nonhalogenated Organics by 8015 - GRO - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%RBC Limits	RPD	RPD Limit	Notes
Batch 2005015 - Purge and Trap EPA 5030A										
Blank (2005015-BLK1)				Prepared: 01/28/20 Analyzed: 01/29/20						
Gasoline Range Organics (G6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-Fluorobenzene-FID	7.60		"	8.00		95.0	50-150			
LCS (2005015-BS2)				Prepared: 01/28/20 Analyzed: 01/29/20						
Gasoline Range Organics (G6-C10)	44.3	20.0	mg/kg	50.0	ND	88.6	70-130			
Surrogate: 1-Chloro-4-Fluorobenzene-FID	7.66		"	8.00		95.7	50-150			
Matrix Spike (2005015-MS2)				Source: P001075-01		Prepared: 01/28/20 Analyzed: 01/29/20				
Gasoline Range Organics (G6-C10)	45.0	20.0	mg/kg	50.0	ND	89.9	70-130			
Surrogate: 1-Chloro-4-Fluorobenzene-FID	7.71		"	8.00		96.6	50-150			
Matrix Spike Dup (2005015-MSD2)				Source: P001075-01		Prepared: 01/28/20 Analyzed: 01/29/20				
Gasoline Range Organics (G6-C10)	44.3	20.0	mg/kg	50.0	ND	88.6	70-130	1.49	20	
Surrogate: 1-Chloro-4-Fluorobenzene-FID	7.60		"	8.00		95.0	50-150			

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EOG Resources Inc. - Carlsbad 104 South 4th Street Artesia NM, 88210	Project Name: Gasler D #59 Project Number: 19034-0001 Project Manager: Robert Asher	Reported: 01/30/20 14:31
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Anions by 300.0/9056A - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	MRCC Limit	RPD	RPD Limit	Notes
Batch 2005017 - Anion Extraction EPA 300.0/9056A										
Blank (2005017-BL.K1)				Prepared & Analyzed: 01/28/20 1						
Chloride	ND	20.0	mg/kg							
LCS (2005017-BS1)				Prepared & Analyzed: 01/28/20 1						
Chloride	247	20.0	mg/kg	350	862	98.8	90-110			
Matrix Spike (2005017-MS1)				Prepared & Analyzed: 01/28/20 1						
Source: P001075-01										
Chloride	1100	20.0	mg/kg	350	862	99.7	80-120			
Matrix Spike Dup (2005017-MSD1)				Prepared & Analyzed: 01/28/20 1						
Source: P001075-01										
Chloride	1150	20.0	mg/kg	350	862	112	80-120	4.77	20	

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.

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

- M2 Matrix spike recovery was outside quality control limits. The associated LCS spike recovery was acceptable.
- NIS Analyte NOT DETECTED at or above the reporting limit
- Nit 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.

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24 Hour Emergency Response Phone (800) 362-1879

Chain of Custody

Project Information		Report Attention		Lab Use Only		EPA Program	
Client: EOG Resources, Inc.		Report due by: 1/30/2020		Job Number: 1903410001		TAT	
Project: Gissler B #59		Attention: Robert Asher		Lab WOC#: P001082		1D 3D	
Project Manager: Robert Asher		Address: 104 South 4th Street		Analysis and Method		RCRA CWA SDWA	
Address: 104 South 4th Street		City, State, Zip: Artesia, NM 88210		VOC by 8260		State	
City, State, Zip: Artesia, NM 88210		Phone: (575) 748-4717		BTEX by 8021		NM CO UT AZ	
Phone: (575) 748-4717		Email: robert.asher@eogresources.com		GRO/DRO by 8015		X	
Email: robert.asher@eogresources.com				ORO/DRO by 8015			
Time Sampled	Date Sampled	Matrix	# Containers	Sample ID	Lab Number	Remarks	
12:33 PM	1/20/20	S	1	S-1.1	1	BGDQC	
12:41 PM	1/20/20	S	1	S-2.1	2	BGDQC	
12:44 PM	1/20/20	S	1	S-3.1	3	BGDQC	
12:47 PM	1/20/20	S	1	S-4.1	4	BGDQC	
12:51 PM	1/20/20	S	1	S-5.1	5	BGDQC	
12:55 PM	1/20/20	S	1	S-6.1	6	BGDQC	
1:00 PM	1/20/20	S	1	S-7.1	7	BGDQC	
1:05 PM	1/20/20	S	1	S-8.1	8	BGDQC	

Additional Instructions:
PO# 205532

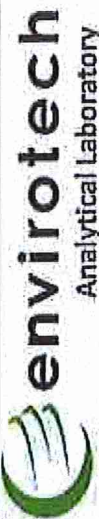
I, (field number), attest to the validity and authenticity of this sample. I am aware that tampering with or fraudulently mislabeling this sample location, time or time of collection is considered fraud and may be grounds for legal action. Sampled by: _____

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
<i>[Signature]</i>	1/22/2020	3:27 PM	<i>[Signature]</i>	1/28/20	9:30
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Received on ice: Y N
 AVG Temp °C: 12 T2 13 T3

Container Type: **S** - glass, **P** - poly/plastic, eg - 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 of 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 CDC. The liability of the laboratory is limited to the amount paid for on the report.



5796 US Highway 64, Farmington, NM 87401
 24 Hour Emergency Response Phone (800) 382-1879
 Ph: (505) 652-0515 FX: (505) 632-1865

Chain of Custody

Project Information

Client: EOG Resources, Inc.
 Project: Gissler B #59
 Project Manager: Robert Asher
 Address: 104 South 4th Street
 City, State, Zip: Artesia, NM 88210
 Phone: (575) 748-4217
 Email: robert.asher@egoresources.com

Report Attention
 Report due by: 1/30/2020
 Attention: Robert Asher
 Address: 104 South 4th Street
 City, State, Zip: Artesia, NM 88210
 Phone: (575) 748-4217
 Email: robert.asher@egoresources.com

Lab Use Only
 Lab WOC# P 001062
 Job Number 1903A-0001
 Analysis and Method

EPA Program
 TAT 1D 3D X
 RCRA CWA SDWA

State
 NM CO UT AZ

Time Sampled	Date Sampled	Matrix	Sample ID	Lab Number	DIC/DND by ROTs	EM/DND by ROTs	BTEX by A201	VOC by A260	Metals (d10)	Chloride (d20)	Remarks
1:09 PM	1/20/20	S	S-9.1	9	X	X	X	X		X	BGDOC
1:13 PM	1/20/20	S	S-10.1	10	X	X	X	X		X	BGDOC
1:16 PM	1/20/20	S	S-11.1	11	X	X	X	X		X	BGDOC
					X	X	X	X		X	BGDOC
					X	X	X	X		X	BGDOC
					X	X	X	X		X	BGDOC
					X	X	X	X		X	BGDOC
					X	X	X	X		X	BGDOC
					X	X	X	X		X	BGDOC
					X	X	X	X		X	BGDOC
					X	X	X	X		X	BGDOC
					X	X	X	X		X	BGDOC

Additional Instructions:
 PO# 205632

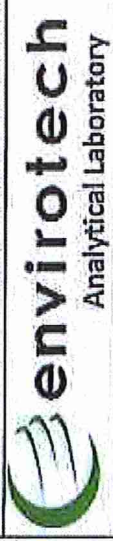
Field samples must be analyzed within 30 days of collection. If samples are not analyzed within 30 days, they may be analyzed at a later date. Samples requiring chemical preservation must be received on ice. The data are sampled or received in the field at a temperature above 5°C or below 15°C.

Relinquished by: *[Signature]* Date: 1/22/2020 Time: 3:28 PM
 Received by: *[Signature]* Date: 1/28/20 Time: 9:30

Relinquished by: *[Signature]* Date: _____ Time: _____
 Received by: *[Signature]* Date: _____ Time: _____

Lab Use Only
 Received on ice: Y / N
 AVG Temp. °C: 4

Sample Matrix: S - Solid, Sl - Sludge, A - Aqueous, O - Other
 Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The liability of the laboratory is limited to the amount paid for the report.



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 envirotech.com
 info@envirotech-lab.com



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: 02/18/20 13:29
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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.

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EOG Resources Inc. - Carlsbad 104 South 4th Street Artesia NM, 88210	Project Name: Gissler H #50 Project Number: 19034-0001 Project Manager: Robert Asher	Report#: 02/18/20 13:29
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**SW-1A
P002037-01 (Solid)**

Reporting									
Analysis	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2007021	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	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %		50-150	2007023	02/14/20	02/16/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/RO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2007025	02/14/20	02/14/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2007025	02/14/20	02/14/20	EPA 8015D	
<i>Surrogate: n-Nonane</i>		99.7 %		50-200	2007025	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	
<i>Surrogate: 1-Chloro-1-Phenylbenzene-PID</i>		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	

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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
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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 8021H	
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 8021H	
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 8021H	
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 8021H	
Nonhalogenated Organics by 8015 - DRO/RO									
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2007025	02/14/20	02/14/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2007025	02/14/20	02/14/20	EPA 8015D	
Surrogate: n-Nonane		92.5 %		50-200	2007025	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	

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EOG Resources Inc. - Carlshad 104 South 4th Street Artesia NM, 88210	Project Name: Gisher B #59 Project Number: 19034-0001 Project Manager: Robert Ashier	Reported: 02/18/20 13:29
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Volatile Organics by EPA 8021 - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	1099 Limit	Notes
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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-Bromo-4-chlorobenzene-PID	0.01		"	5.00		100	50-750			

I.C.S (2007023-B81) 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	8.41	0.0500	"	10.0		94.8	70-130			
o-Xylene	4.73	0.0250	"	5.00		94.4	70-130			
Total Xylenes	14.2	0.0250	"	15.0		94.6	0-200			
Surrogate: 1-Bromo-4-chlorobenzene-PID	8.33		"	5.00		103	50-150			

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	61.3-131			
o-Xylene	4.99	0.0250	"	5.00	ND	95.0	61.3-131			
Total Xylenes	14.7	0.0250	"	15.0	ND	98.3	0-200			
Surrogate: 1-Bromo-4-chlorobenzene-PID	8.13		"	5.00		102	50-150			

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	1.60	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	61.3-131	1.71	20	
o-Xylene	5.03	0.0250	"	5.00	ND	101	61.3-131	2.61	20	
Total Xylenes	15.0	0.0250	"	15.0	ND	100	0-200	2.61	200	
Surrogate: 1-Bromo-4-chlorobenzene-PID	8.13		"	5.00		102	50-150			

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EOG Resources Inc. - Carlshad 104 South 4th Street Artesia NM, 88210	Project Name: Gissler B #59 Project Number: 19034-0001 Project Manager: Robert Ayler	Reported: 02/18/20 13:29
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Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control
Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%at/C Limits	RPD	RPD Limit	Notes
Batch 2007025 - DRO Extraction EPA 1570										
Blank (2007025-BLK1)				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-BS1)				Prepared: 02/14/20 0 Analyzed: 02/14/20 1						
Diesel Range Organics (C10-C28)	416	25.0	mg/kg	500		173	28-132			
Oil Range Organics (C28-C40)	38.3		"	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	28-132			
Oil Range Organics (C28-C40)	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	28-132	1.68	70	
Oil Range Organics (C28-C40)	49.6		"	50.0		99.1	50-200			

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EOG Resources Inc. - Carlshad 104 South 4th Street Artesian NM, 88210	Project Name: Gissler H #59 Project Number: 19034-0001 Project Manager: Robert Asher	Reported: 02/18/20 13:29
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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 (G6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-2-fluorobenzene-FID	7.03		"	8.00		87.9	50-150			
LCS (2007023-LS2)				Prepared: 02/14/20 0 Analyzed: 02/16/20 1						
Gasoline Range Organics (G6-C10)	48.5	20.0	mg/kg	50.0		97.1	70-130			
Surrogate: 1-Chloro-2-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 (G6-C10)	49.2	20.0	mg/kg	50.0	ND	98.4	70-130			
Surrogate: 1-Chloro-2-fluorobenzene-FID	1.04		"	8.00		85.0	50-150			
Matrix Spike Dup (2007023-MSD2)				Source: P002033-01 Prepared: 02/14/20 0 Analyzed: 02/16/20 1						
Gasoline Range Organics (G6-C10)	45.7	20.0	mg/kg	50.0	ND	93.5	70-130	5.16	20	
Surrogate: 1-Chloro-2-fluorobenzene-FID	7.13		"	8.00		89.3	50-150			

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EOG Resources Inc. - Carlsbad 104 South 4th Street Artesia NM, 88210	Project Name: Glacier B #50 Project Number: 19034-0001 Project Manager: Robert Asher	Reported: 03/18/20 13:29
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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-DLK1)				Prepared & Analyzed: (02/14/20)						
Chloride	0.0	20.0	mg/kg							
LCS (2007028-BS1)				Prepared & Analyzed: (02/14/20)						
Chloride	248	20.0	mg/kg	250	1720	99.2	96-110			
Matrix Spike (2007028-MS1)				Source: P002033-01 Prepared & Analyzed: (02/14/20)						
Chloride	250	20.0	mg/kg	250	1720	21.7	80-120			MS
Matrix Spike Dup (2007028-MSD1)				Source: P002033-01 Prepared & Analyzed: (02/14/20)						
Chloride	1950	20.0	mg/kg	250	1720	62.7	80-120	14.8	20	

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.

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EOG Resources Inc. - Carlsbad	Project Name:	Gisler B #59	Reported:
104 South 4th Street	Project Number:	19034-0601	02/18/20 13:29
Artesia NM, 88210	Project Manager:	Robert Asher	

Notes and Definitions

MI 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.

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Project Information

Chain of Custody

Client: EOG Resources, Inc.
 Report due by: 2/18/2020
 Attention: Robert Asher
 Address: 104 South 4th Street
 City, State, Zip: Artesia, NM 88210
 Phone: (575) 748-4217
 Email: robert.asher@eogresources.com

Job Number: 19034-0001
 Analysis and Method: Chloride 300.0

Lab Use Only: VOC by 8260, BTEX by 8021, GNO/ONO by 8015, GNO/ONO by 8015

EPA Program: TAT, 1D, 13D, RCRA, CWA, SDWA

State: NM, CO, UT, AZ


Time Sampled	Date Sampled	Matrix	No. Containers	Sample ID	Lab Number	Remarks
11:56 AM	2/12/20	S	1	SW-1.A	1	BGDOC
12:02 PM	2/12/20	S	1	SW-1.B	2	BGDOC

Additional Instructions:
 PO# 205632

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

Relinquished by: (Signature) Date: 2/12/2020 Time: 2:15 PM
 Received by: (Signature) Date: 2/14/20 Time: 9:30
 Relinquished by: (Signature) Date: _____ Time: _____
 Received by: (Signature) Date: _____ Time: _____

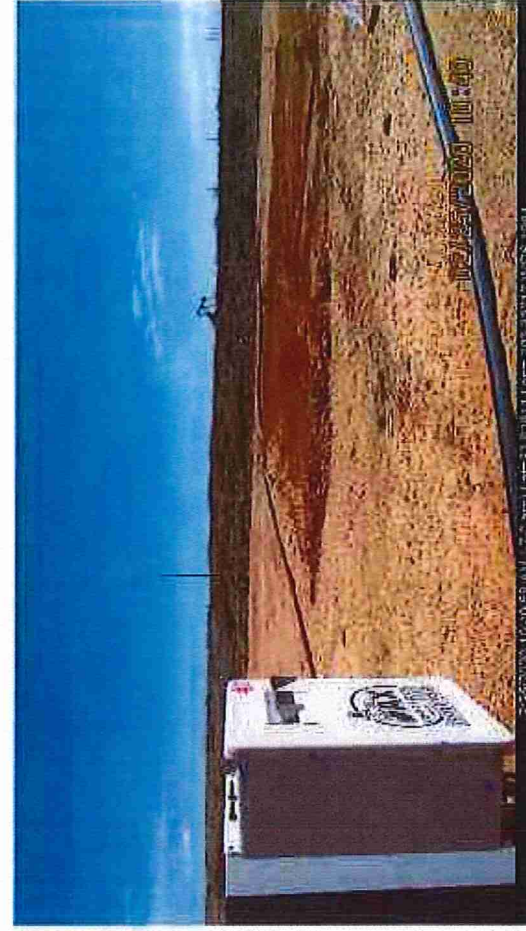
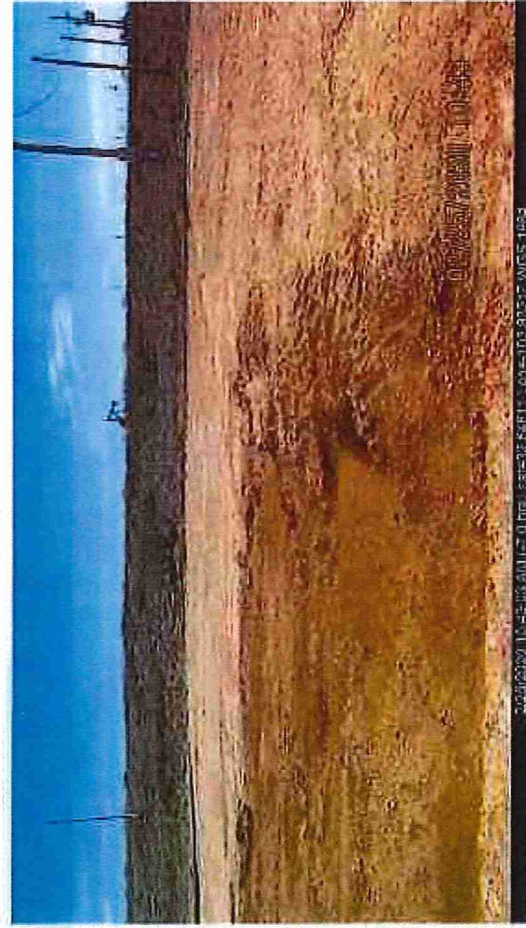
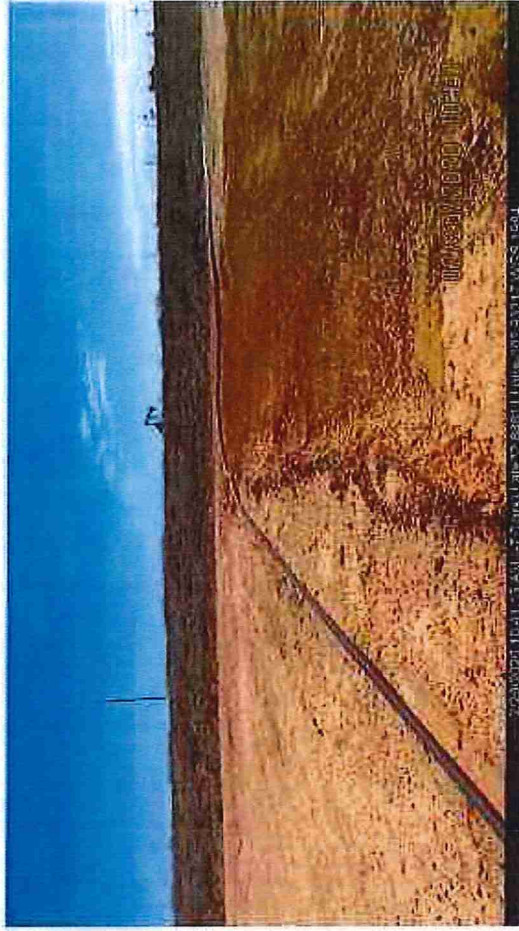
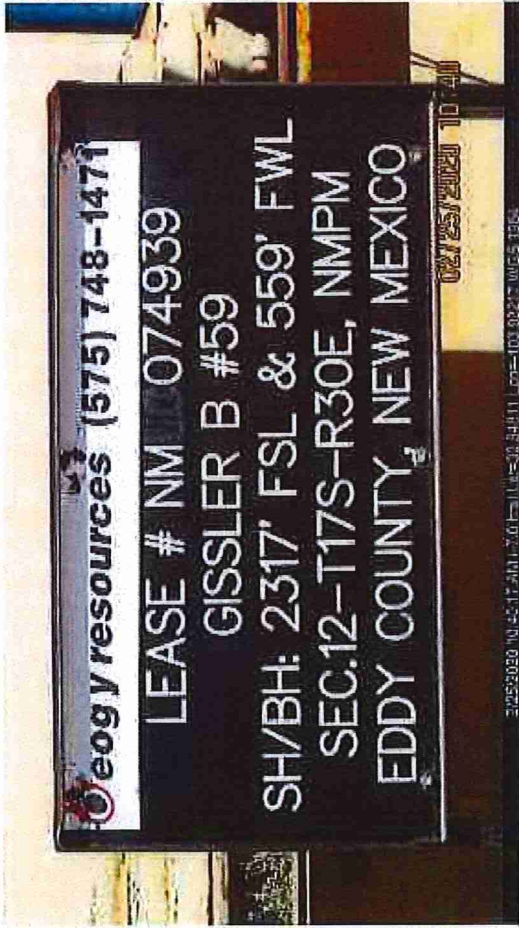
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, D - Other
 Container Type: P - glass, P - poly/plastic, ag - amber glass, v - VOA
 Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of 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.

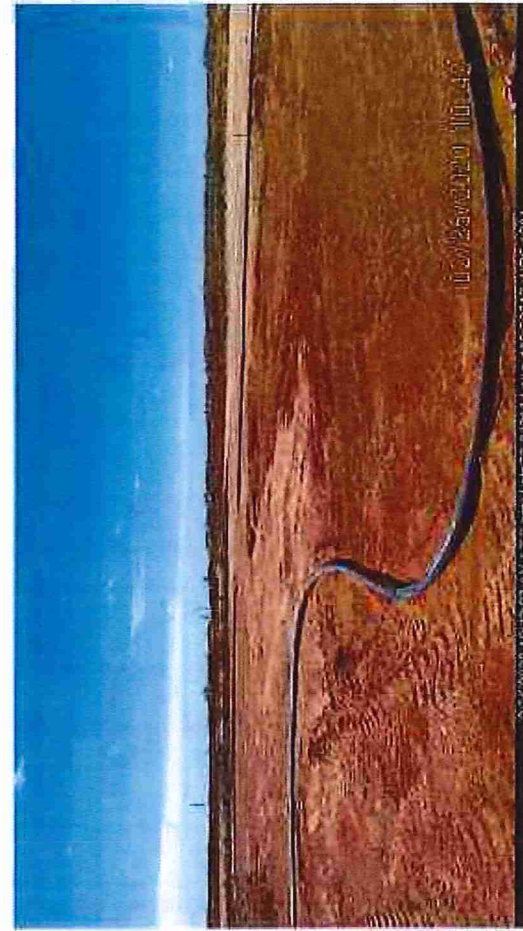
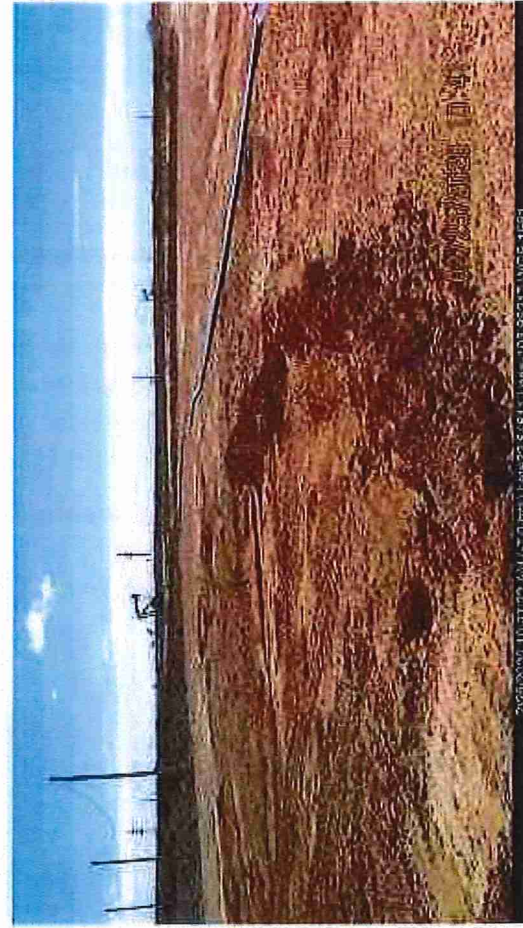
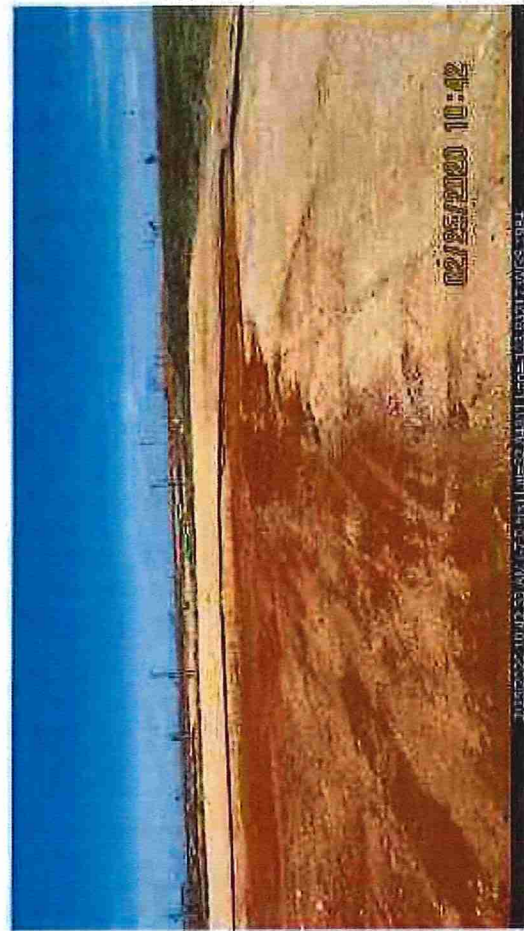
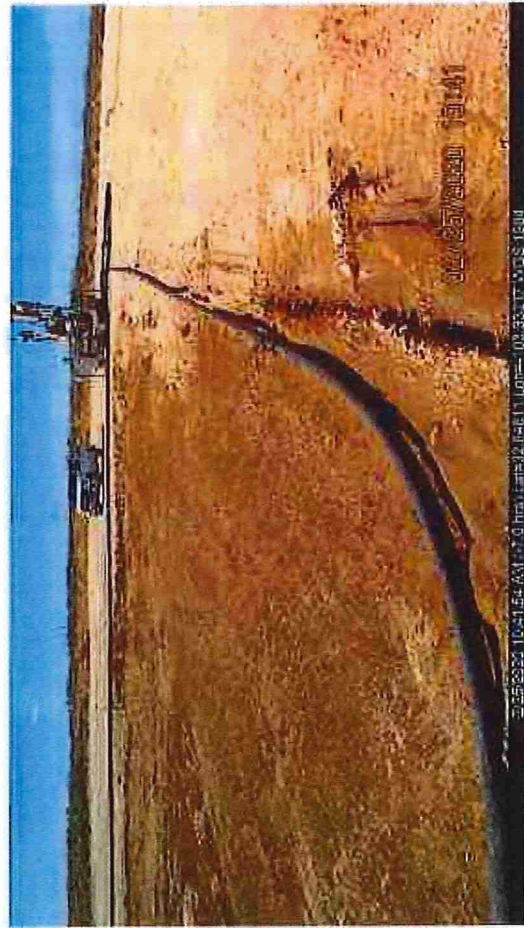


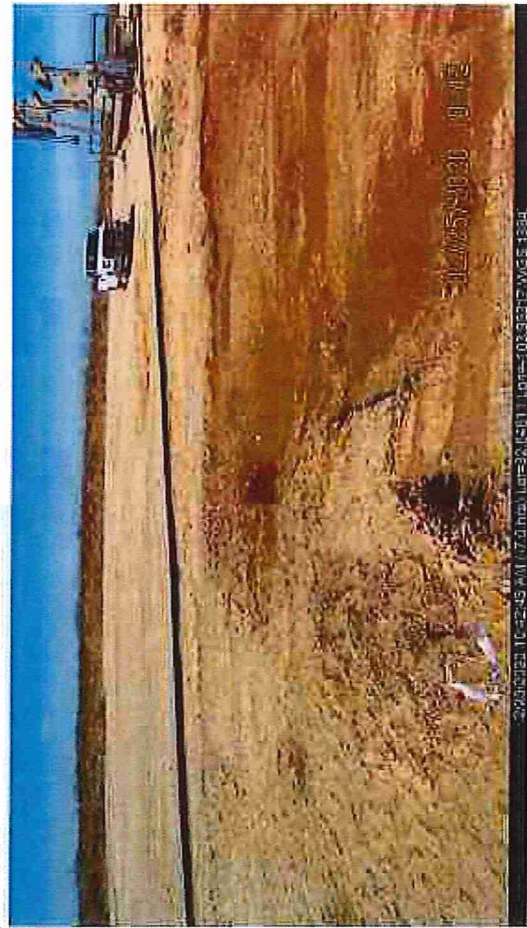
5795 US Highway 66, Farmington, NM 87401
 24 hour Emergency Response Phone: (800) 362-1878
 (505) 852-0515 FX (505) 652-1898
 envirotech.com

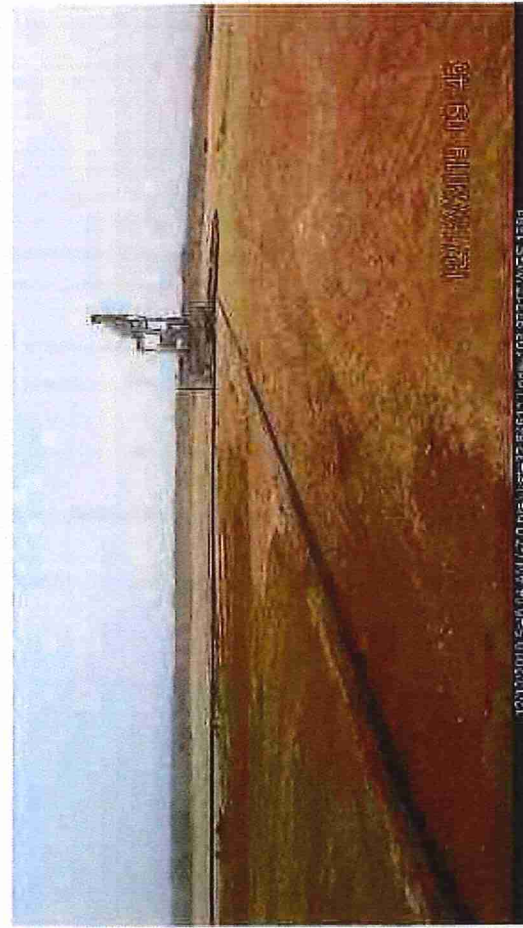
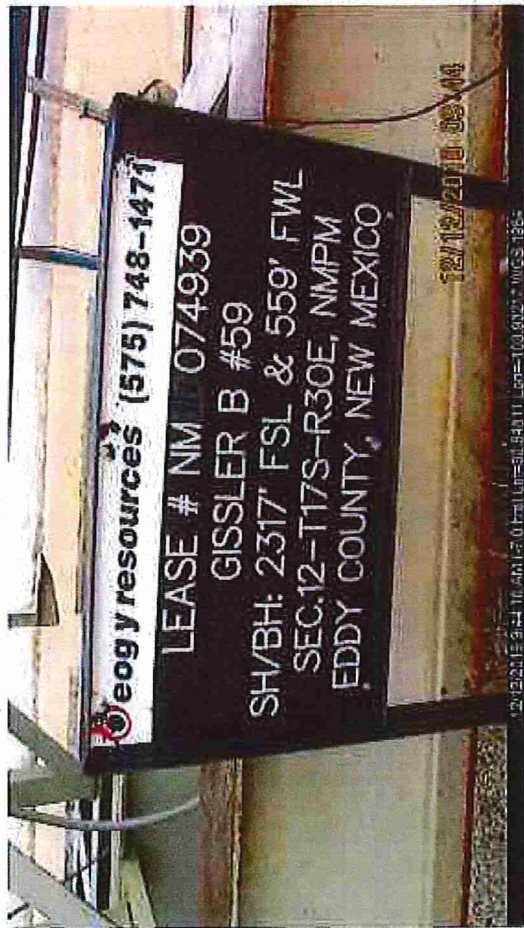
Appendix 7

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)

<input checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 9	Volume Recovered (bbls) 8
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> 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.

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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

<input checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input checked="" type="checkbox"/> 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>9/1/2021</u> email: <u>bob_asher@eogresources.com</u> Telephone: <u>575-748-4217</u>
<u>OCD Only</u> Received by: _____ Date: _____

Appendix 9

Form C-141

Site Assessment/Characterization/Remediation Plan

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?	<u>105'</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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 Asher Title: Environmental Supervisor

Signature:  Date: 9/1/2021

email: bob_asher@eogresources.com Telephone: 575-748-4217

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
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.

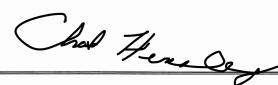
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public 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: 9/1/2021
 email: bob_asher@eogresources.com Telephone: 575-748-4217

OCD Only

Received by: Chad Hensley Date: 10/04/2021

Approved Approved with Attached Conditions of Approval Denied Deferral Approved

Signature:  Date: 10/04/2021

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 46283

CONDITIONS

Operator: EOG RESOURCES INC P.O. Box 2267 Midland, TX 79702	OGRID: 7377
	Action Number: 46283
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	10/4/2021