

eog resources

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

May 9, 2019

NMOCD District II 811 S. First St. Artesia, NM 88210

Re:

Gissler B 3-1 Battery B-11-17S-30E Eddy County, NM 2RP-5252

EOG Y Resources, Inc. is submitting the enclosed Closure Report for the above referenced site. The plan is being submitted accompanying the C-141 Final.

EOG Y Resources Inc. requests closure of 2RP-5252.

If you have any questions, feel free to call me at (575) 748-1471.

Respectfully,

Chase Settle Rep Safety & Environmental II EOG Y Resources, Inc.



EOG Y Resources, Inc.

Gissler B 3-1 Battery

Closure Report

B-11-17S-30E

Eddy County, NM

May 9, 2019

2RP-5252



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I. Location

From the intersection of Hwy 82 and Square Lakes Road (CR 220), head north for approximately 2.5 miles, then turn west and follow the lease road for ¾ of mile to the location.

II. Background

On February 20, 2019, EOG Resources, Inc. submitted to the NMOCD District II office a Form C-141 for the release of 14 B/O with 10 B/O recovered. The affected area impacted by the 2RP-5252 release is approximately 45 feet by 45 feet behind the battery on the south side. The release was caused by the failure of Victaulic clamp on a flow line. A vacuum truck was dispatched to recover the standing fluid and a backhoe crew was contracted to excavate visually impacted soils, approximately one and a half (1.5) feet of impacted soil was excavated and sent to a NMOCD approved disposal facility during the initial excavation activities. Initial soil sampling was conducted February 28, 2019, after providing notice of sampling to NMOCD and BLM on February 26, 2019. Results of initial sampling (03/11/2019, results enclosed), indicated historical contamination from previous operations with 2 areas requiring further delineation, V2 and V3, and all areas requiring further excavation. Additional delineation sampling was conducted on March 27, 2019 (03/28/2019, results enclosed), after providing notice of sampling to NMOCD and BLM on March 25, 2019. Due to the multitude of flow lines that enter the battery across the release area, only the V3 point was able to be delineated deeper during this sampling activity.

III. Surface and Ground Water

Area geology is Cenozoic Quaternary. Based on information from the United States Geological Survey National Water Information System (USGS) regarding this location (Section 11, T17S-R30E), shallowest depth to groundwater is approximately 361 feet with the nearest water well being further than a mile to the west. Watercourses in the area are dry except for infrequent flows in response to major precipitation events, with the nearest body of surface water being Dimmitt Lake at approximately 2 miles away.

IV. NMOCD Assessment Criteria

The site assessment criteria is as follows:

Depth to ground water > 100'
Wellhead Protection Area > 1000'
Distance to surface water body > 1000'

Based on the assessment criteria, the NMOCD established RRALs for this site are:

 Benzene
 10 mg/kg

 BTEX
 50 mg/kg

 TPH
 2,500 mg/kg

 GRO + DRO
 1,000 mg/kg

 Chlorides
 20,000 mg/kg





V. Soils

USDA Natural Resources Conservation Service (NRCS) classifies soil in the area as Kermit-Berino fine sands, with 0-3% slopes, and very rapid permeability.

VII. Work Completed

Based on analytical results, a decrease in chlorides, TPH, and BTEX, and groundwater greater than 100 feet, EOG Resources, Inc. initially increased the excavation depth of the V1 impacted area to two (2) feet bgs and the V2 and V3 impacted areas to seven (7) and seven and a half (7.5) feet bgs before conducting confirmation soil sampling (04/09/2019, results enclosed) of the sidewalls and bottom of the excavation. Based off these confirmation sample results, the V1 and East Sidewall were excavated further with the V1 area having an additional half (1/2) foot removed and the East Sidewall being excavated out one (1) additional foot east. Confirmation samples were again collected (04/16/2019, results enclosed) with the V1 area still presenting higher than Table 1 standards, therefore the V1 area was excavated to four (4) feet bgs and again resampled (04/30/2019, results enclosed). Analytical data from that sampling activity displayed results to be below Table 1 standards. All confirmation samples represented less than 200 square feet. Notification for all confirmation sampling activities were sent to NMOCD and BLM, April 4, 9, and 22, 2019. All excavated soil was hauled to a NMOCD approved facility for disposal, then the excavated areas were backfilled to grade with locally sourced soil of similar type. A C-141 Final Report is hereby submitted to NMOCD requesting closure of the site.



Table 1Soil Analytical Data

May 9, 2019

Soil Analytical Data

Sample ID	Depth (ft. bgs)	Date	Benzene	Toluene	Ethylbenzene	Xylenes	BTEX	TPH (GRO)	TPH (DRO)	TPH EXT DRO	Total TPH	Chlorides
V1-1.5'	1.5	2/28/19	<0.050	0.781	<0.050	18.6	19.4	504	5000	924	6428	544
V1-2.5'	2.5	2/28/19	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	16
V1-3.5'	3.5	2/28/19	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	144
V1-4.5'	4.5	2/28/19	< 0.050	<0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	128
V1-5.5'	5.5	2/28/19	< 0.050	< 0.050	0.157	0.466	0.623	<10.0	<10.0	<10.0	<10.0	160
V2-1.5'	1.5	2/28/19	< 0.050	< 0.050	<0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	240
V2-2.5'	2.5	2/28/19	14.3	109	80.9	160	364	4060	9950	1750	15760	384
V2-3.5'	3.5	2/28/19	15.1	113	111	167	407	3800	7530	947	12277	240
V2-4.5'	4.5	2/28/19	35.2	129	105	146	415	2970	6980	1010	10960	368
V2-5.5'	5.5	2/28/19	28.2	64.7	113	160	367	3990	9630	1720	15340	368
V3-1.5'	1.5	2/28/19	< 0.050	< 0.050	0.093	0.177	< 0.300	<10.0	269	52.1	321.1	4320
V3-2.5'	2.5	2/28/19	6.83	39.7	30.8	44.1	121	977	3500	1170	5647	352
V3-3.5'	3.5	2/28/19	26.8	125	104	153	408	4750	14600	3330	22680	240
V3-4.5'	4.5	2/28/19	2.49	17.1	19.2	29.0	67.8	854	2810	610	4274	352
V3-5.5'	5.5	2/28/19	19.6	72.5	75.7	109	277	3120	10400	2100	15620	240
V3-7.5'	7.5	3/27/19	0.481	1.57	2.75	3.43	8.23	136	1010	53.7	1199.7	448
V3-9.5'	9.5	3/27/19	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	288
V3-10.5'	10.5	3/27/19	< 0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	144
V3-11.5'	11.5	3/27/19	< 0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	144
V1C-2'	2	4/8/19	< 0.050	0.124	0.300	1.24	1.67	55.1	1990	240	2285.1	80
V1C-2.5'	2.5	4/12/19	< 0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	995	458	1453	1120
V1C-4'	4	4/25/19	< 0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	10.0	<10.0	10.0	80
V2C-7'	7	4/8/19	< 0.050	<0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	496
V3C-7.5'	7.5	4/8/19	< 0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	116	14.4	130.4	192
NWC	0-7.5	4/8/19	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	304
WWC	0-7.5	4/8/19	<0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	850	93	943	128
SWC	0-7.5	4/8/19	< 0.050	< 0.050	<0.050	<0.150	<0.300	<10.0	260	52.4	312.4	192
EWC	0-2	4/8/19	<0.050	< 0.050	0.115	0.344	0.459	17.4	1010	244	1271.4	720
EWC#2	0-2.5	4/12/19	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	54.2	40.8	95	32



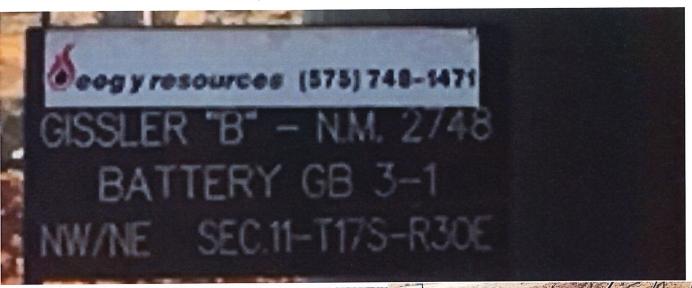
Figure 1 Site Map with Sample Points







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Appendix AUSGS Groundwater Information



National Water Information System: Map View





National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Groundwater	٧	United States	٧	GO

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs 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

Eddy County, New Mexico 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 Santa Rosa Sandstone (231SNRS) local aquifer.

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

Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1986-04-25		D	362.44			2		U		U	Α

Explanation Code Description Section D Water-level date-time accuracy Date is accurate to the Day 2 Water level accuracy to nearest hundredth of a foot Water-level accuracy The reported water-level measurement represents a static level Status Method of measurement U Unknown method. Measuring agency Not determined Source of measurement U Source is unknown. Water-level approval status A Approved for publication -- Processing and review completed.

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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: <u>USGS Water Data Support Team</u> Page Last Modified: 2018-12-19 11:58:31 EST 0.5 0.43 nadww01







National Water Information System: Web Interface

USGS Water Resources

Groundwater Geographic Area:

V United States ▼ GO

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs 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

Eddy County, New Mexico 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 Santa Rosa Sandstone (231SNRS) local aquifer.

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

Date	Time	? Water- level date- time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water- level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water- level approval status
1986-04-25		D	361.26			2		U		U	A

Explanation Code Section Description D Water-level date-time accuracy Date is accurate to the Day 2 Water level accuracy to nearest hundredth of a foot Water-level accuracy The reported water-level measurement represents a static level Status Method of measurement U Unknown method. Measuring agency Not determined Source of measurement u Source is unknown. Water-level approval status A Approved for publication -- Processing and review completed.

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Accessibility Plug-Ins FOIA Privacy U.S. Department of the Interior | U.S. Geological Survey Title: Groundwater for USA: Water Levels

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

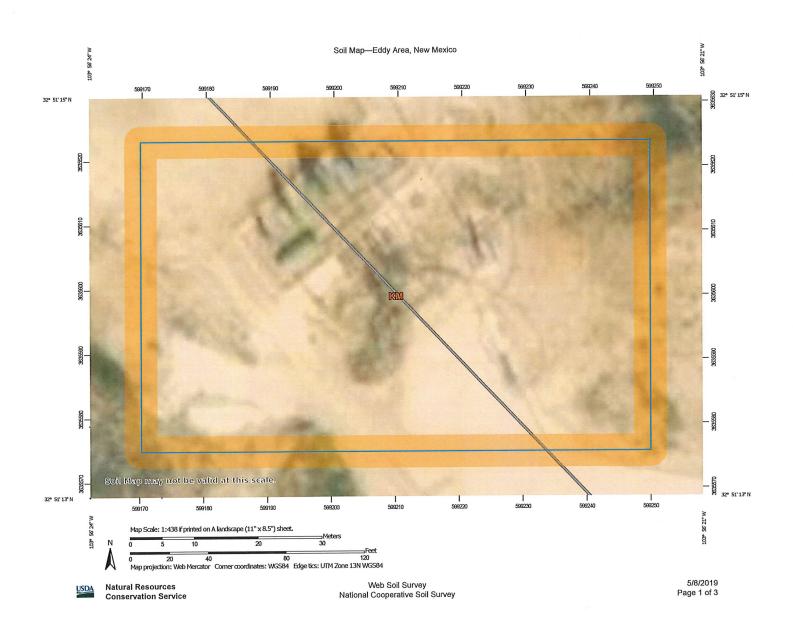
Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2018-12-19 11:58:58 EST

0.51 0.43 nadww01

USA.gov

May 9, 2019

Appendix B NRCS Soil Classification



MAP INFORMATION **MAP LEGEND** The soil surveys that comprise your AOI were mapped at Area of Interest (AOI) Spoil Area 1:20,000. Area of Interest (AOI) Stony Spot Û Warning: Soil Map may not be valid at this scale. Soils Very Stony Spot 03 Soil Map Unit Polygons Enlargement of maps beyond the scale of mapping can cause Ø Wet Spot misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of Soil Map Unit Lines Other Δ Soil Map Unit Points contrasting soils that could have been shown at a more detailed Special Line Features .. Special Point Features **Water Features** Blowout ဖ Please rely on the bar scale on each map sheet for map Streams and Canals Borrow Pit \boxtimes Transportation Source of Map: Natural Resources Conservation Service Clay Spot × Rails +++ Web Soil Survey URL: Closed Depression 0 Coordinate System: Web Mercator (EPSG:3857) Interstate Highways Gravel Pit × US Routes Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more Gravelly Spot Major Roads Landfill 0 Local Roads accurate calculations of distance or area are required. Lava Flow ٨ Background This product is generated from the USDA-NRCS certified data as Aerial Photography Marsh or swamp 3 4 of the version date(s) listed below. Mine or Quarry 4 Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 14, Sep 12, 2018 Miscellaneous Water 0 Perennial Water Soil map units are labeled (as space allows) for map scales 0 1:50,000 or larger. Rock Outcrop Date(s) aerial images were photographed: Sep 18, 2016—Nov 20, 2017 Saline Spot ... Sandy Spot The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background Severely Eroded Spot imagery displayed on these maps. As a result, some minor Sinkhole 0 shifting of map unit boundaries may be evident. d Slide or Slip Sodic Spot

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KM	Kermit-Berino fine sands, 0 to 3 percent slopes	1.0	100.0%
Totals for Area of Interest		1.0	100.0%



Appendix CLaboratory Soil Data



March 11, 2019

CHASE SETTLE
EOG Y RESOURCES, INC
105 SOUTH 4TH STREET
ARTESIA, NM 88210

RE: GISSLER B 3-1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/06/19 14:00.

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keena

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Received: Reported: 03/06/2019

03/11/2019

Project Name:

GISSLER B 3-1 BATTERY

Project Number:

2RP-5252

Project Location:

GISSLER B 3-1 BATTERY

Sampling Date:

02/28/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: V 1-1.5' (H900915-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2019	ND	2.11	106	2.00	2.98	
Toluene*	0.781	0.050	03/07/2019	ND	1.92	96.2	2.00	1.75	
Ethylbenzene*	<0.050	0.050	03/07/2019	ND	1.99	99.7	2.00	2.19	
Total Xylenes*	18.6	0.150	03/07/2019	ND	6.20	103	6.00	3.02	
Total BTEX	19.4	0.300	03/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.6	% 73.3-12	9			2			
hloride, SM4500Cl-B mg/kg			Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	03/07/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	504	50.0	03/06/2019	ND	209	104	200	3.10	QM-07
DRO >C10-C28*	5000	50.0	03/06/2019	ND	211	106	200	5.19	QM-07
EXT DRO >C28-C36	924	50.0	03/06/2019	ND					
Surrogate: 1-Chlorooctane	106 9	% 41-142					-		
Surrogate: 1-Chlorooctadecane	213 9	% 37.6-14	7						

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

Received:

03/06/2019

Reported:

03/11/2019

Project Name:

GISSLER B 3-1 BATTERY

Project Number:

2RP-5252

Project Location:

GISSLER B 3-1 BATTERY

Sampling Date:

02/28/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: V 1-2.5' (H900915-02)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2019	ND	2.11	106	2.00	2.98	
Toluene*	<0.050	0.050	03/07/2019	ND	1.92	96.2	2.00	1.75	
Ethylbenzene*	<0.050	0.050	03/07/2019	ND	1.99	99.7	2.00	2.19	
Total Xylenes*	<0.150	0.150	03/07/2019	ND	6.20	103	6.00	3.02	
Total BTEX	<0.300	0.300	03/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.8	% 73.3-12	9	,					
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/07/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2019	ND	209	104	200	3.10	
DRO >C10-C28*	<10.0	10.0	03/06/2019	ND	211	106	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	03/06/2019	ND					
Surrogate: 1-Chlorooctane	106 5	% 41-142	?						
Surrogate: 1-Chlorooctadecane	109 5	% 37.6-14	7						

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Celeg D. Keene



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

Received: Reported: 03/06/2019

03/11/2019

Project Name: Project Number: GISSLER B 3-1 BATTERY 2RP-5252

Project Location:

GISSLER B 3-1 BATTERY

Sampling Date:

02/28/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: V 1-3.5' (H900915-03)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2019	ND	2.11	106	2.00	2.98	
Toluene*	<0.050	0.050	03/07/2019	ND	1.92	96.2	2.00	1.75	
Ethylbenzene*	<0.050	0.050	03/07/2019	ND	1.99	99.7	2.00	2.19	
Total Xylenes*	<0.150	0.150	03/07/2019	ND	6.20	103	6.00	3.02	
Total BTEX	<0.300	0.300	03/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	96.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/07/2019	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2019	ND	209	104	200	3.10	
DRO >C10-C28*	<10.0	10.0	03/06/2019	ND	211	106	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	03/06/2019	ND					
Surrogate: 1-Chlorooctane	97.6	% 41-142	?						
Surrogate: 1-Chlorooctadecane	102	% 37.6-14	17						

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*=Accredited Analyte

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Celeg D. Keene



EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210

Fax To:

(575) 748-4131

Received: Reported: 03/06/2019

03/11/2019

Project Name: Project Number: GISSLER B 3-1 BATTERY

Project Location:

2RP-5252 **GISSLER B 3-1 BATTERY**

02/28/2019

Sampling Date: Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: V 1-4.5' (H900915-04)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2019	ND	2.11	106	2.00	2.98	
Toluene*	<0.050	0.050	03/07/2019	ND	1.92	96.2	2.00	1.75	
Ethylbenzene*	<0.050	0.050	03/07/2019	ND	1.99	99.7	2.00	2.19	
Total Xylenes*	<0.150	0.150	03/07/2019	ND	6.20	103	6.00	3.02	
Total BTEX	<0.300	0.300	03/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.4	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC				<u> </u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	03/07/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2019	ND	209	104	200	3.10	
DRO >C10-C28*	<10.0	10.0	03/06/2019	ND	211	106	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	03/06/2019	ND					
Surrogate: 1-Chlorooctane	96.1	% 41-142							
Surrogate: 1-Chlorooctadecane	101 9	% 37.6-14	7						

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Received: Reported:

03/06/2019

03/11/2019

Project Name:

GISSLER B 3-1 BATTERY

Project Number:

2RP-5252

Project Location:

GISSLER B 3-1 BATTERY

Sampling Date:

02/28/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: V 1-5.5' (H900915-05)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2019	ND	2.11	106	2.00	2.98	
Toluene*	<0.050	0.050	03/07/2019	ND	1.92	96.2	2.00	1.75	
Ethylbenzene*	0.157	0.050	03/07/2019	ND	1.99	99.7	2.00	2.19	
Total Xylenes*	0.466	0.150	03/07/2019	ND	6.20	103	6.00	3.02	
Total BTEX	0.623	0.300	03/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	103 :	% 73.3-12	9						
hloride, SM4500Cl-B mg/kg			Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/07/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	. Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2019	ND	209	104	200	3.10	
DRO >C10-C28*	<10.0	10.0	03/06/2019	ND	211	106	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	03/06/2019	ND					
Surrogate: 1-Chlorooctane	93.4	% 41-142	,						
Surrogate: 1-Chlorooctadecane	96.7	% 37.6-14	7						

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Received:

03/06/2019

Reported:

03/11/2019

Project Name:

GISSLER B 3-1 BATTERY

Project Number:

2RP-5252

Project Location:

GISSLER B 3-1 BATTERY

Sampling Date:

02/28/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: V 2-1.5' (H900915-06)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2019	ND	2.11	106	2.00	2.98	
Toluene*	<0.050	0.050	03/07/2019	ND	1.92	96.2	2.00	1.75	
Ethylbenzene*	<0.050	0.050	03/07/2019	ND	1.99	99.7	2.00	2.19	
Total Xylenes*	<0.150	0.150	03/07/2019	ND	6.20	103	6.00	3.02	
Total BTEX	<0.300	0.300	03/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.1	% 73.3-12	9		j				
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/07/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/06/2019	ND	209	104	200	3.10	
DRO >C10-C28*	<10.0	10.0	03/06/2019	ND	211	106	200	5.19	
EXT DRO >C28-C36	<10.0	10.0	03/06/2019	ND					
Surrogate: 1-Chlorooctane	99.1	% 41-14.	2						
Surrogate: 1-Chlorooctadecane	102	% 37.6-1-	17						

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Fax To:

(575) 748-4131

Received:

03/06/2019

03/11/2019

Reported: Project Name:

GISSLER B 3-1 BATTERY

Project Number:

2RP-5252

Project Location:

GISSLER B 3-1 BATTERY

Sampling Date:

02/28/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: V 2-2.5' (H900915-07)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	14.3	1.00	03/07/2019	ND	2.11	106	2.00	2.98	
Toluene*	109	1.00	03/07/2019	ND	1.92	96.2	2.00	1.75	
Ethylbenzene*	80.9	1.00	03/07/2019	ND	1.99	99.7	2.00	2.19	
Total Xylenes*	160	3.00	03/07/2019	ND	6.20	103	6.00	3.02	
Total BTEX	364	6.00	03/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	384	16.0	03/07/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4060	100	03/06/2019	ND	209	104	200	3.10	
DRO >C10-C28*	9950	100	03/06/2019	ND	211	106	200	5.19	
EXT DRO >C28-C36	1750	100	03/06/2019	ND					
Surrogate: 1-Chlorooctane	265	% 41-142	?						
Surrogate: 1-Chlorooctadecane	412	% 37.6-14	7						

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'

03/06/2019

Reported: 03/11/2019

Project Name: GISSLER B 3-1 BATTERY
Project Number: 2RP-5252

Project Location: GISSLER B 3-1 BATTERY

Sampling Date:

02/28/2019

Sampling Type: Soil

Sampling Condition: Coo

Sample Received By: Jo

Cool & Intact Jodi Henson

Sample ID: V 2-3.5' (H900915-08)

Received:

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	15.1	1.00	03/07/2019	ND	2.11	106	2.00	2.98	
Toluene*	113	1.00	03/07/2019	ND	1.92	96.2	2.00	1.75	
Ethylbenzene*	111	1.00	03/07/2019	ND	1.99	99.7	2.00	2.19	
Total Xylenes*	167	3.00	03/07/2019	ND	6.20	103	6.00	3.02	
Total BTEX	407	6.00	03/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	112	% 73.3-12	9			~			
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/07/2019	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	3800	100	03/07/2019	ND	209	104	200	3.10	
DRO >C10-C28*	7530	100	03/07/2019	ND	211	106	200	5.19	
EXT DRO >C28-C36	947	100	03/07/2019	ND					
Surrogate: 1-Chlorooctane	242	% 41-142	?						
Surrogate: 1-Chlorooctadecane	326	% 37.6-14	7						

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

Received:

03/06/2019

Reported:

03/11/2019

Project Name: Project Number: GISSLER B 3-1 BATTERY 2RP-5252

Project Location:

GISSLER B 3-1 BATTERY

Sampling Date:

02/28/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: V 2-4.5' (H900915-09)

BTEX 8021B	mg/kg		Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	35.2	1.00	03/07/2019	ND	2.11	106	2.00	2.98	
Toluene*	129	1.00	03/07/2019	ND	1.92	96.2	2.00	1.75	
Ethylbenzene*	105	1.00	03/07/2019	ND	1.99	99.7	2.00	2.19	
Total Xylenes*	146	3.00	03/07/2019	ND	6.20	103	6.00	3.02	
Total BTEX	415	6.00	03/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	105 9	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/07/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2970	100	03/07/2019	ND	209	104	200	3.10	
DRO >C10-C28*	6980	100	03/07/2019	ND	211	106	200	5.19	
EXT DRO >C28-C36	1010	100	03/07/2019	ND					
Surrogate: 1-Chlorooctane	218 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	316 9	% 37.6-14	7						

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

Received:

03/06/2019

Sampling Date:

02/28/2019

Reported:

03/11/2019

Sampling Type:

Soil

Project Name:

GISSLER B 3-1 BATTERY

Sampling Condition:

Cool & Intact

Project Number:

2RP-5252

Sample Received By:

Jodi Henson

Project Location:

GISSLER B 3-1 BATTERY

Sample ID: V 2-5.5' (H900915-10)

BTEX 8021B	mg/kg		Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	28.2	1.00	03/07/2019	ND	2.11	106	2.00	2.98	
Toluene*	64.7	1.00	03/07/2019	ND	1.92	96.2	2.00	1.75	
Ethylbenzene*	113	1.00	03/07/2019	ND	1.99	99.7	2.00	2.19	
Total Xylenes*	160	3.00	03/07/2019	ND	6.20	103	6.00	3.02	
Total BTEX	367	6.00	03/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	109	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	368	16.0	03/07/2019	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	3990	100	03/07/2019	ND	195	97.4	200	5.50	
DRO >C10-C28*	9630	100	03/07/2019	ND	210	105	200	3.32	
EXT DRO >C28-C36	1720	100	03/07/2019	ND					
Surrogate: 1-Chlorooctane	249	% 41-14.	2						
Surrogate: 1-Chlorooctadecane	348	% 37.6-1-	! 7						

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

Received: Reported: 03/06/2019

03/11/2019

Project Name: Project Number: GISSLER B 3-1 BATTERY

Project Location:

2RP-5252

GISSLER B 3-1 BATTERY

Sampling Date:

02/28/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: V 3-1.5' (H900915-11)

BTEX 8021B	mg/kg		Analyze	d By: ms			*		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/07/2019	ND	2.11	106	2.00	2.98	
Toluene*	<0.050	0.050	03/07/2019	ND	1.92	96.2	2.00	1.75	
Ethylbenzene*	0.093	0.050	03/07/2019	ND	1.99	99.7	2.00	2.19	
Total Xylenes*	0.177	0.150	03/07/2019	ND	6.20	103	6.00	3.02	
Total BTEX	<0.300	0.300	03/07/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	100 9	% 73.3-12	9 *				7		
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	03/07/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/07/2019	ND	195	97.4	200	5.50	
DRO >C10-C28*	269	10.0	03/07/2019	ND	210	105	200	3.32	
EXT DRO >C28-C36	52.1	10.0	03/07/2019	ND					
Surrogate: 1-Chlorooctane	89.1	% 41-142							
Surrogate: 1-Chlorooctadecane	112 9	% 37.6-14	7						

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

Received:

03/06/2019

Sampling Date:

02/28/2019

Reported:

03/11/2019

Sampling Type:

Soil

Project Name:

GISSLER B 3-1 BATTERY

Sampling Condition:

Cool & Intact

Project Number:

2RP-5252

Sample Received By:

Jodi Henson

Project Location:

GISSLER B 3-1 BATTERY

Sample ID: V 3-2.5' (H900915-12)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	6.83	1.00	03/08/2019	ND	2.11	106	2.00	2.98	
Toluene*	39.7	1.00	03/08/2019	ND	1.92	96.2	2.00	1.75	
Ethylbenzene*	30.8	1.00	03/08/2019	ND	1.99	99.7	2.00	2.19	
Total Xylenes*	44.1	3.00	03/08/2019	ND	6.20	103	6.00	3.02	
Total BTEX	121	6.00	03/08/2019	ND)
Surrogate: 4-Bromofluorobenzene (PIL	99.4	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/07/2019	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	977	100	03/07/2019	ND	195	97.4	200	5.50	
DRO >C10-C28*	3500	100	03/07/2019	ND	210	105	200	3.32	
EXT DRO >C28-C36	1170	100	03/07/2019	ND					
Surrogate: 1-Chlorooctane	120	% 41-142	2						
Surrogate: 1-Chlorooctadecane	211	% 37.6-14	17						

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

Received: Reported:

03/06/2019

03/11/2019

Project Name:

GISSLER B 3-1 BATTERY

Project Number:

2RP-5252

Project Location:

GISSLER B 3-1 BATTERY

Sampling Date:

02/28/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: V 3-3.5' (H900915-13)

BTEX 8021B	mg/kg		Analyzed By: ms						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	26.8	1.00	03/08/2019	ND	2.11	106	2.00	2.98	
Toluene*	125	1.00	03/08/2019	ND	1.92	96.2	2.00	1.75	
Ethylbenzene*	104	1.00	03/08/2019	ND	1.99	99.7	2.00	2.19	
Total Xylenes*	153	3.00	03/08/2019	ND	6.20	103	6.00	3.02	
Total BTEX	408	6.00	03/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	03/07/2019	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4750	100	03/07/2019	ND	195	97.4	200	5.50	
DRO >C10-C28*	14600	100	03/07/2019	ND	210	105	200	3.32	
EXT DRO >C28-C36	3330	100	03/07/2019	ND					
Surrogate: 1-Chlorooctane	299	% 41-142	?						
Surrogate: 1-Chlorooctadecane	473	% 37.6-14	7						

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EOG Y RESOURCES, INC CHASE SETTLE 105 SOUTH 4TH STREET ARTESIA NM, 88210

Fax To:

(575) 748-4131

Received:

03/06/2019

Sampling Date:

02/28/2019

Reported:

03/11/2019

Sampling Type:

Soil

Project Name:

GISSLER B 3-1 BATTERY

Sampling Condition:

Cool & Intact

Project Number:

2RP-5252

Sample Received By:

Jodi Henson

Project Location:

GISSLER B 3-1 BATTERY

Sample ID: V 3-4.5' (H900915-14)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	2.49	1.00	03/08/2019	ND	2.11	106	2.00	2.98	
Toluene*	17.1	1.00	03/08/2019	ND	1.92	96.2	2.00	1.75	
Ethylbenzene*	19.2	1.00	03/08/2019	ND	1.99	99.7	2.00	2.19	
Total Xylenes*	29.0	3.00	03/08/2019	ND	6.20	103	6.00	3.02	
Total BTEX	67.8	6.00	03/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	352	16.0	03/07/2019	ND	416	104	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS				S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	854	50.0	03/07/2019	ND	195	97.4	200	5.50	
DRO >C10-C28*	2810	50.0	03/07/2019	ND	210	105	200	3.32	
EXT DRO >C28-C36	610	50.0	03/07/2019	ND					
Surrogate: 1-Chlorooctane	193	% 41-142	?						
Surrogate: 1-Chlorooctadecane	173	% 37.6-14	7						

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EOG Y RESOURCES, INC **CHASE SETTLE** 105 SOUTH 4TH STREET ARTESIA NM, 88210

Fax To:

(575) 748-4131

Received:

03/06/2019

03/11/2019

Reported: Project Name:

GISSLER B 3-1 BATTERY

Project Number:

2RP-5252

Project Location:

GISSLER B 3-1 BATTERY

Sampling Date:

02/28/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: V 3-5.5' (H900915-15)

BTEX 8021B	mg/kg		Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	19.6	0.500	03/08/2019	ND	2.11	106	2.00	2.98	
Toluene*	72.5	0.500	03/08/2019	ND	1.92	96.2	2.00	1.75	
Ethylbenzene*	75.7	0.500	03/08/2019	ND	1.99	99.7	2.00	2.19	
Total Xylenes*	109	1.50	03/08/2019	ND	6.20	103	6.00	3.02	
Total BTEX	277	3.00	03/08/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	118 9	6 73.3-12	9					.5	
Chloride, SM4500CI-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	240	16.0	03/07/2019	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	3120	100	03/07/2019	ND	195	97.4	200	5.50	
DRO >C10-C28*	10400	100	03/07/2019	ND	210	105	200	3.32	
EXT DRO >C28-C36	2100	100	03/07/2019	ND					
Surrogate: 1-Chlorooctane	231 9	% 41-142	?			=			
Surrogate: 1-Chlorooctadecane	379 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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COC

Notes and Definitions

The receivery of this curregate is outside control limits due to sample dilution required from high analyte concentration and/or

S-06	matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

Relinquished by:	(Relinquished by:	Relinquished by:		Special Instructions:	/ <mark>⊘</mark> √2-5.5'	7 V2-4.5'	8 √2-3.5′	7 V2-2.5'	6 V2-1.5'	<u>S</u> V1-5.5'	4 V1-4.5	3 V1-3.5'	2 V1-2.5'	1 V1-1.5'	LAB # (lab use only)	2011	OBDER#	(lab use only)		Sampler Signature:	Telephone No: 575-748-4171	City/State/Zip: Artesia, NM 88210	Company Address: 105 South 4th Street	Company Name EOG Resources Inc.	Project Manager: Chase Settle
Date	Date	3/6/19		TPH EXTENDED NEEDED										2		100 March 100 M				5	71	1 88210	4th Street	urces Inc.	le
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n Re	Sample Hand Delivered by Sampler/Client Rep by Courier? UPS	Labels on container(s) Custody seals on containe Custody seals on cooler(s)	VOCs Free of Headspace?	Laboratory Comments:		_									Semivolaliles		T	T	ze F				issi		issi
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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

Relinquished by:	Relinquished by:	Kelingaisped by		Special					Ū	14	13	12	=	LAB# (lab use only)	ORDER #:	(lab use only)							
hed by:	hed by:	Janea By		Special Instructions:					V3-5.5'	V3-4.5'	3 V3-3.5'	. V3-2.5'	V3-1.5		7	_		Sampler Signature:	Telephone No:	City/State/Zip:	Company Address:	Company Name	Project Manager:
				TPHE										FIELD CODE	G1600L1	1	1	re:	575-748_4171	Artesia, NM 88210	ss: 105 South 4th Street	EOG Resources Inc.	Chase Settle
Date	Date	3/6/19	7	TPH EXTENDED NEEDED										,				4		8210	Street	s Inc.	
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ime	Time	11:30		DED										Ending Depth									
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Temperature Upon Receipt:	Sample Hand Delivered by Sampler/Client Rep by Courier? UPS	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)	VOCs Free of Headspace?	Laboratory Comments:										Anions (CI, SO4, Alkalinity)		ᆲ			×	20		Project #: 2RP-5252	
eratu	nple Hand Delivered by Sampler/Client Rep. ? by Courier? UPS	on o	Free	Total										SAR / ESP / CEC		TCLP:			x Standard	205-0750		P	
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March 28, 2019

CHASE SETTLE
EOG Y RESOURCES, INC
105 SOUTH 4TH STREET
ARTESIA, NM 88210

RE: GISSLER B 3-1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 03/27/19 13:35.

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Whe South

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

Sincerely,

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager



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

Received: Reported:

03/27/2019

03/28/2019

Project Name:

GISSLER B 3-1 BATTERY

Project Number:

2RP-5252

Project Location:

GISSLER B 3-1 BATTERY

Sampling Date:

Date: 03/27/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: V 3-7.5' (H901150-01)

BTEX 8021B	mg	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.481	0.050	03/28/2019	ND	1.96	98.1	2.00	2.09	
Toluene*	1.57	0.050	03/28/2019	ND	1.86	93.2	2.00	2.94	
Ethylbenzene*	2.75	0.050	03/28/2019	ND	1.97	98.6	2.00	2.40	
Total Xylenes*	3.43	0.150	03/28/2019	ND	5.96	99.3	6.00	1.83	
Total BTEX	8.23	0.300	03/28/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	116	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	448	16.0	03/28/2019	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	136	50.0	03/27/2019	ND	211	105	200	0.398	
DRO >C10-C28*	1010	50.0	03/27/2019	ND	211	106	200	2.32	
EXT DRO >C28-C36	53.7	50.0	03/27/2019	ND					
Surrogate: 1-Chlorooctane	135	% 41-142	•						
Surrogate: 1-Chlorooctadecane	135	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Mile Sough



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

1 07

Received: 03/27/2019 Reported: 03/28/2019

Project Name: GISSLER B 3-1 BATTERY

Project Number: 2RP-5252

Project Location: GISSLER B 3-1 BATTERY

Sampling Date:

03/27/2019

Sampling Type: Soil

Sampling Condition: Sample Received By: Cool & Intact

Tamara Oldaker

Sample ID: V 3-9.5' (H901150-02)

BTEX 8021B	mg/	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2019	ND	1.96	98.1	2.00	2.09	
Toluene*	<0.050	0.050	03/28/2019	ND	1.86	93.2	2.00	2.94	
Ethylbenzene*	<0.050	0.050	03/28/2019	ND	1.97	98.6	2.00	2.40	
Total Xylenes*	<0.150	0.150	03/28/2019	ND	5.96	99.3	6.00	1.83	
Total BTEX	<0.300	0.300	03/28/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	94.3	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	03/28/2019	ND	400	100	400	3.92	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2019	ND	211	105	200	0.398	
DRO >C10-C28*	<10.0	10.0	03/27/2019	ND	211	106	200	2.32	
EXT DRO >C28-C36	<10.0	10.0	03/27/2019	ND					
Surrogate: 1-Chlorooctane	109 9	% 41-142	?						
Surrogate: 1-Chlorooctadecane	103 9	% 37.6-14	7						

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*=Accredited Analyte

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

Received:

03/27/2019

Sampling Date:

03/27/2019

Reported:

Sampling Type:

03/28/2019

Soil

Project Name:

GISSLER B 3-1 BATTERY

Sampling Condition:

Cool & Intact

Project Number:

2RP-5252

Sample Received By:

Tamara Oldaker

Project Location:

GISSLER B 3-1 BATTERY

Sample ID: V 3-10.5' (H901150-03)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2019	ND	1.96	98.1	2.00	2.09	
Toluene*	<0.050	0.050	03/28/2019	ND	1.86	93.2	2.00	2.94	
Ethylbenzene*	<0.050	0.050	03/28/2019	ND	1.97	98.6	2.00	2.40	
Total Xylenes*	<0.150	0.150	03/28/2019	ND	5.96	99.3	6.00	1.83	
Total BTEX	<0.300	0.300	03/28/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	93.8	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/28/2019	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2019	ND	211	105	200	0.398	
DRO >C10-C28*	<10.0	10.0	03/27/2019	ND	211	106	200	2.32	
EXT DRO >C28-C36	<10.0	10.0	03/27/2019	ND					
Surrogate: 1-Chlorooctane	109	% 41-142	?						
Surrogate: 1-Chlorooctadecane	103	% 37.6-14	7						

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

03/27/2019 Received: Reported: 03/28/2019

Project Name: **GISSLER B 3-1 BATTERY**

2RP-5252 Project Number:

Project Location: **GISSLER B 3-1 BATTERY** Sampling Date:

03/27/2019

Sampling Type: Soil

Sampling Condition: Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: V 3-11.5' (H901150-04)

BTEX 8021B	mg/	/kg	Analyze	d By: ms		3			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/28/2019	ND	1.96	98.1	2.00	2.09	
Toluene*	<0.050	0.050	03/28/2019	ND	1.86	93.2	2.00	2.94	
Ethylbenzene*	<0.050	0.050	03/28/2019	ND	1.97	98.6	2.00	2.40	
Total Xylenes*	<0.150	0.150	03/28/2019	ND	5.96	99.3	6.00	1.83	
Total BTEX	<0.300	0.300	03/28/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	93.7	% 73.3-12	9						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/28/2019	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	03/27/2019	ND	211	105	200	0.398	
DRO >C10-C28*	<10.0	10.0	03/27/2019	ND	211	106	200	2.32	
EXT DRO >C28-C36	<10.0	10.0	03/27/2019	ND					
Surrogate: 1-Chlorooctane	105	% 41-142							
Surrogate: 1-Chlorooctadecane	99.8	% 37.6-14	7						

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Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

Chloride by SM4500CI-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

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April 09, 2019

CHASE SETTLE
EOG Y RESOURCES, INC
105 SOUTH 4TH STREET
ARTESIA, NM 88210

RE: GISSLER B 3-1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/08/19 13:55.

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keena

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Received: Reported:

04/08/2019

04/09/2019

Project Name:

GISSLER B 3-1 BATTERY

Project Number:

2RP-5252

Project Location:

GISSLER B 3-1 BATTERY

Sampling Date:

04/08/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: V 1 C 2' (H901269-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2019	ND	1.81	90.5	2.00	0.545	
Toluene*	0.124	0.050	04/09/2019	ND	1.68	84.2	2.00	0.470	
Ethylbenzene*	0.300	0.050	04/09/2019	ND	1.73	86.7	2.00	0.995	
Total Xylenes*	1.24	0.150	04/09/2019	ND	5.27	87.8	6.00	0.722	
Total BTEX	1.67	0.300	04/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 9	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/09/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	55.1	50.0	04/08/2019	ND	194	97.1	200	5.64	
DRO >C10-C28*	1990	50.0	04/08/2019	ND	195	97.5	200	0.423	
EXT DRO >C28-C36	240	50.0	04/08/2019	ND					
Surrogate: 1-Chlorooctane	120 %	6 41-142							
Surrogate: 1-Chlorooctadecane	198 9	6 37.6-14	7						

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Celey D. Keine



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

Received:

04/08/2019

Sampling Date:

04/08/2019

Reported:

04/09/2019

Sampling Type:

Soil

Project Name:

GISSLER B 3-1 BATTERY

Sampling Condition:

Cool & Intact

Project Number:

2RP-5252

Sample Received By:

Tamara Oldaker

Project Location:

GISSLER B 3-1 BATTERY

Sample ID: V 2 C 7' (H901269-02)

BTEX 8021B	mg,	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2019	ND	1.81	90.5	2.00	0.545	
Toluene*	<0.050	0.050	04/09/2019	ND	1.68	84.2	2.00	0.470	
Ethylbenzene*	<0.050	0.050	04/09/2019	ND	1.73	86.7	2.00	0.995	
Total Xylenes*	<0.150	0.150	04/09/2019	ND	5.27	87.8	6.00	0.722	
Total BTEX	<0.300	0.300	04/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	90.8	% 73.3-12	9						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	04/09/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/08/2019	ND	194	97.1	200	5.64	
DRO >C10-C28*	<10.0	10.0	04/08/2019	ND	195	97.5	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	04/08/2019	ND					
Surrogate: 1-Chlorooctane	101	% 41-142	!						
Surrogate: 1-Chlorooctadecane	96.7	% 37.6-14	7						

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Celeg D. Keene



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

Received:

04/08/2019

Reported:

04/09/2019

Project Name: Project Number: GISSLER B 3-1 BATTERY

Project Location:

2RP-5252

GISSLER B 3-1 BATTERY

Sampling Date:

e: 04/08/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: V 3 C 7.5' (H901269-03)

BTEX 8021B	mg,	'kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2019	ND	1.81	90.5	2.00	0.545	
Toluene*	<0.050	0.050	04/09/2019	ND	1.68	84.2	2.00	0.470	
Ethylbenzene*	<0.050	0.050	04/09/2019	ND	1.73	86.7	2.00	0.995	
Total Xylenes*	<0.150	0.150	04/09/2019	ND	5.27	87.8	6.00	0.722	
Total BTEX	<0.300	0.300	04/09/2019	ND			F		
Surrogate: 4-Bromofluorobenzene (PIL	92.3	% 73.3-12	9						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/09/2019	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS				-	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/08/2019	ND	194	97.1	200	5.64	
DRO >C10-C28*	116	10.0	04/08/2019	ND	195	97.5	200	0.423	
EXT DRO >C28-C36	14.4	10.0	04/08/2019	ND					
Surrogate: 1-Chlorooctane	105	% 41-142	?						
Surrogate: 1-Chlorooctadecane	111	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine



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

Received:

04/08/2019

04/09/2019

Reported: Project Name:

GISSLER B 3-1 BATTERY

Project Number:

Project Location:

2RP-5252 **GISSLER B 3-1 BATTERY** Sampling Date:

04/08/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: NW C SUR - 7.5' (H901269-04)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2019	ND	1.81	90.5	2.00	0.545	
Toluene*	<0.050	0.050	04/09/2019	ND	1.68	84.2	2.00	0.470	
Ethylbenzene*	<0.050	0.050	04/09/2019	ND ·	1.73	86.7	2.00	0.995	
Total Xylenes*	<0.150	0.150	04/09/2019	ND	5.27	87.8	6.00	0.722	
Total BTEX	<0.300	0.300	04/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	93.0 9	% 73.3-12	9	. 3					
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC				}	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	04/09/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/08/2019	ND	194	97.1	200	5.64	
DRO >C10-C28*	<10.0	10.0	04/08/2019	ND	195	97.5	200	0.423	
EXT DRO >C28-C36	<10.0	10.0	04/08/2019	ND					
Surrogate: 1-Chlorooctane	110 %	6 41-142	?						
Surrogate: 1-Chlorooctadecane	108 %	6 37.6-14	7						

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*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

Received:

04/08/2019

Reported:

04/09/2019

Project Name:

GISSLER B 3-1 BATTERY 2RP-5252

GISSLER B 3-1 BATTERY

Project Number:

Project Location:

Sampling Date:

04/08/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: WW C SUR - 7.5' (H901269-05)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2019	ND	1.81	90.5	2.00	0.545	
Toluene*	<0.050	0.050	04/09/2019	ND	1.68	84.2	2.00	0.470	
Ethylbenzene*	<0.050	0.050	04/09/2019	ND	1.73	86.7	2.00	0.995	
Total Xylenes*	<0.150	0.150	04/09/2019	ND	5.27	87.8	6.00	0.722	
Total BTEX	<0.300	0.300	04/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	95.9	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	04/09/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10*	<50.0	50.0	04/08/2019	ND	194	97.1	200	5.64	
DRO >C10-C28*	850	50.0	04/08/2019	ND	195	97.5	200	0.423	
EXT DRO >C28-C36	93.0	50.0	04/08/2019	ND					
Surrogate: 1-Chlorooctane	105 %	6 41-142							
Surrogate: 1-Chlorooctadecane	144 9	6 37.6-14	7						

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

Received: Reported:

04/08/2019

04/09/2019

Project Name: Project Number: GISSLER B 3-1 BATTERY

Project Location:

2RP-5252

GISSLER B 3-1 BATTERY

Sampling Date:

04/08/2019

Sampling Type:

Sampling Condition:

Soil Cool & Intact

COOL & TITLAC

Sample Received By: Tamara Oldaker

Sample ID: SW C SUR - 7.5' (H901269-06)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2019	ND	1.81	90.5	2.00	0.545	
Toluene*	<0.050	0.050	04/09/2019	ND	1.68	84.2	2.00	0.470	
Ethylbenzene*	<0.050	0.050	04/09/2019	ND	1.73	86.7	2.00	0.995	
Total Xylenes*	<0.150	0.150	04/09/2019	ND	5.27	87.8	6.00	0.722	
Total BTEX	<0.300	0.300	04/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	91.1	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	04/09/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/08/2019	ND	194	97.1	200	5.64	
DRO >C10-C28*	260	10.0	04/08/2019	ND	195	97.5	200	0.423	
EXT DRO >C28-C36	52.4	10.0	04/08/2019	ND					
Surrogate: 1-Chlorooctane	103 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	117 9	% 37.6-14	7						

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

Received:

04/08/2019

Reported:

04/09/2019

Project Name: Project Number: GISSLER B 3-1 BATTERY 2RP-5252

Project Location:

GISSLER B 3-1 BATTERY

Sampling Date:

04/08/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Tamara Oldaker

Sample ID: EW C SUR - 7.5' (H901269-07)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/09/2019	ND	1.81	90.5	2.00	0.545	
Toluene*	<0.050	0.050	04/09/2019	ND	1.68	84.2	2.00	0.470	
Ethylbenzene*	0.115	0.050	04/09/2019	ND	1.73	86.7	2.00	0.995	
Total Xylenes*	0.344	0.150	04/09/2019	ND	5.27	87.8	6.00	0.722	
Total BTEX	0.459	0.300	04/09/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.7	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	04/09/2019	ND	416	104	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	17.4	10.0	04/08/2019	ND	194	97.1	200	5.64	
DRO >C10-C28*	1010	10.0	04/08/2019	ND	195	97.5	200	0.423	
EXT DRO >C28-C36	244	10.0	04/08/2019	ND					
Surrogate: 1-Chlorooctane	92.2	% 41-142	?						
Surrogate: 1-Chlorooctadecane	132 9	% 37.6-14	7						

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Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature,
-	Chloride by SM4500CI-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240

(505) 393-2326 FAX (505) 393-2476

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dn a	Sample Hand Delivered by Sampler/Client Rep. ? by Courier? UPS	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)	Sample Containers Intact? VOCs Free of Headspace?	Laboratory Comments:	+	+	-		-				_	Metals; As Ag Ba Cd Cr Pb Hg S Volatiles	Se	Anal	dard				52		
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April 16, 2019

CHASE SETTLE
EOG Y RESOURCES, INC
105 SOUTH 4TH STREET
ARTESIA, NM 88210

RE: GISSLER B 3-1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/15/19 14:10.

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keena

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Received: Reported: 04/15/2019

04/16/2019

Project Name: Project Number: GISSLER B 3-1 BATTERY

Project Location:

2RP-5252

GISSLER B 3-1 BATTERY

Sampling Date:

04/12/2019

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: V1C - 2.5 (H901377-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/16/2019	ND	2.07	104	2.00	7.28	
Toluene*	<0.050	0.050	04/16/2019	ND	2.19	110	2.00	5.29	
Ethylbenzene*	<0.050	0.050	04/16/2019	ND	2.19	110	2.00	2.41	
Total Xylenes*	<0.150	0.150	04/16/2019	ND	6.42	107	6.00	4.48	
Total BTEX	<0.300	0.300	04/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	97.1 9	% 73.3-12	9					1	
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC		×	,		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1120	16.0	04/16/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/15/2019	ND	207	103	200	0.562	
DRO >C10-C28*	995	10.0	04/15/2019	ND	194	97.1	200	0.589	
EXT DRO >C28-C36	458	10.0	04/15/2019	ND					
Surrogate: 1-Chlorooctane	94.1 9	% 41-142	!						
Surrogate: 1-Chlorooctadecane	119 %	6 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Kreene



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

Received:

04/15/2019

Reported:

04/16/2019

Project Name:

GISSLER B 3-1 BATTERY

Project Number:

2RP-5252

Project Location:

GISSLER B 3-1 BATTERY

Sampling Date:

04/12/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: EWC #2 (H901377-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/16/2019	ND	2.07	104	2.00	7.28	
Toluene*	<0.050	0.050	04/16/2019	ND	2.19	110	2.00	5.29	
Ethylbenzene*	<0.050	0.050	04/16/2019	ND	2.19	110	2.00	2.41	
Total Xylenes*	<0.150	0.150	04/16/2019	ND	6.42	107	6.00	4.48	
Total BTEX	<0.300	0.300	04/16/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	107 %	6 73.3-12	9						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/16/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/16/2019	ND	207	103	200	0.562	
DRO >C10-C28*	54.2	10.0	04/16/2019	ND	194	97.1	200	0.589	
EXT DRO >C28-C36	40.8	10.0	04/16/2019	ND					
Surrogate: 1-Chlorooctane	91.5	% 41-142	?						-
Surrogate: 1-Chlorooctadecane	91.5	% 37.6-14	7						

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*=Accredited Analyte

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Celeg D. Keene



Notes and Definitions

QR-02 The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

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Celeg D. Keene

Relinquished by:	Relinquished by: Relinquished by:	Special Instructions:	,							2 EWC#2	1 V1C- 2.5	LAB # (lab use only)	ORDER#: 11 1		(a-t : : : : : : : : : : : : : : : : : : :	Sampler Signature:	Telephone No:	City/State/Zip:	Company Ad	Company Name	Project Manager:	ARDIN 101 Ea
	4	TPH EXTENDED NEEDED										FIELD CODE	ンフィー	4901877		ature:	o: 575-748-4171	: Artesia, NM 88210	Company Address: 105 South 4th Street	me EOG Resources Inc.	ger: Chase Settle	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240
Date	Date 4-15-19 Date	ENDED														\		0	et	δ		40
=	1 N 1	NEE										Beginning Depth										
Time	Time Z:00 Time	BE										Ending Depth										
Received by ELOT:	Received by:						,			4/12/2019	4/12/2019	Date Sampled										(505) 393-2326 FAX (505) 393-2476
OT:	Me									8:21 AM	8:20 AM	Time Sampled				e-mail:	Fax No:					FAX (505) 393-
Proper	7				4	_	+	+	+		_	Field Filtered	-			10	ı					2476
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	-											NP=Non-Potable Specify Other	×	L		gresources.com	Report Format:		Р		Project Name:	Ŕ
Time	Time Time									×	×	TPH: 8015B EXTENDED				B	Form		Project Loc:	Proj	ect)	8
		/ 10 =			4		_	+	+	+	-	TPH: TX 1005 TX 1006					nat:	PO #:	ţ	Project #:	Vam	S
Гет	Cust Cust Cust Samu	Sample /OCC	_	\vdash	-	_	+	+	+	+	\vdash	Cations (Ca, Mg, Na, K)		_			, x		S.		.e.	ANI
Temperature Upon Receipt:	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s) Custody seals on cooler(s) Sample Hand Delivered by Sampler/Client Rep. ?	Laboratory Comments: Sample Containers Intact? VOCs Free of Headspace?	_	\vdash	-	-	+	+	+	+	+	Anions (CI, SO4, Alkalinity) SAR / ESP / CEC		TOTAL:	TCI P.		x Standard	205-0750		2RP-5252		OF CUSTODY RECORD AND ANALYSIS REQUEST
ture	seals seals seals fand mple	onta e of	-	-	+	+	+	+	+	+	\vdash	Metals: As Ag Ba Cd Cr Pb Hg	g Se	 	Π.		anda	750		525		ÍAL.
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ceipi	ainer ep. ?	act?						T		×	×	BTEX: 8021B			_ 				Gissler B		Gissler B 3-1 Battery	EQ
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<u> </u>	Tar I	1	_	\vdash	-	+	+	+	+	+	+	Standard TAT	T			4	S			F	age :	5 of 5



April 30, 2019

CHASE SETTLE
EOG Y RESOURCES, INC
105 SOUTH 4TH STREET
ARTESIA, NM 88210

RE: GISSLER B 3-1 BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 04/29/19 15:00.

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keena

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Received:

04/29/2019

Reported:

04/30/2019

Project Name:

GISSLER B 3-1 BATTERY

Project Number:

2RP-5252

Project Location:

GISSLER B 3-1 BATTERY

Sampling Date:

04/25/2019

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: V1C-4' (H901518-01)

BTEX 8021B	mg/	/kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	04/29/2019	ND	1.84	92.2	2.00	0.724	
Toluene*	<0.050	0.050	04/29/2019	ND	1.97	98.4	2.00	2.01	
Ethylbenzene*	<0.050	0.050	04/29/2019	ND	1.89	94.6	2.00	2.12	
Total Xylenes*	<0.150	0.150	04/29/2019	ND	5.92	98.6	6.00	1.57	
Total BTEX	<0.300	0.300	04/29/2019	ND					
Surrogate: 4-Bromofluorobenzene (PIL	98.2	% 73.3-12	9						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/30/2019	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	04/29/2019	ND	215	108	200	0.819	
DRO >C10-C28*	10.0	10.0	04/29/2019	ND	208	104	200	0.102	
EXT DRO >C28-C36	<10.0	10.0	04/29/2019	ND					
Surrogate: 1-Chlorooctane	113 9	% 41-142	r.						
Surrogate: 1-Chlorooctadecane	112 9	% 37.6-14	7						

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene



Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keene

	Relinquished by: Date	Relinquished by:	Relipedished by Date		Special Instructions: TPH EXTENDED NEEDED										V1C-4'	AB # (lab use only)	ORDER #: (TO) O	TOO STORY	More too poly	Sampler Signature:		City/State/Zip: Artesia, NM 88210	Company Address: 105 South 4th Street	Company Name EOG Resources life.		Project Manager: Chase Settle	ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240	7
-	Time	II.	7 =		D NEED										_	Beginning Depth												
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	.OT:		Dens								\				8:05 AM	Time Sampled				e-mail:	Fax No:					×.	(505) 393-2326 FAX (505) 393-2476	
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-	pera	ple I y Sa y Co	ody ody	s Fre	ole C	-	-	+	+	+-	-				\vdash	SAR / ESP / CEC		TATO	TCLP:		St	205-0750			P-C			A
	Temperature Upon Receipt:	Sample Hand Delivered by Sampler/Client Rep. by Courier? UPS	Labels on container(s) Custody seals on container(s) Custody seals on cooler(s)	VOCs Free of Headspace?	Sample Containers Intact?	3	+	+	-	+	\vdash	\vdash	\vdash	_	+	Metals: As Ag Ba Cd Cr Pb H	lg Se		П.	A	x Standard	750			Project #: 2RP-5252			F
	Upc	De Pr/Cli	s on	f He	aine		+	+	+	+	\vdash	_		_	+	Volatiles		T		Analyze	ā		G		2	G		101
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	3 12 1	5	100 B		250					1		1	1	1		Standard TAT	- 1					1			Рa	.ge 4	of 4	



Appendix DForm C-141 (Initial and Closure)

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	2RP-5252
Facility ID	
Application ID	

Release Notification

Responsible Party

EOG Resou	EOG Resources, Inc.				7377				
Chase Settle					575-748-1471				
Chase_Settle	e@eogresou	rces.com			Incident#	# (assigned by OCD)			
104 S. 4th St	reet, Artesia	, NM 88210				,			
			Locatio	n of Ro	elease S	Source			
Latitude <u>32.8</u>	<u>35395</u>		(NAD 83 in a] decimal deg	Longitude <u>-</u> rees to 5 decin	<u>-103.93980</u> imal places)			
Site Name (Gissler B 3-1	Battery			Site Type	Battery			
Date Release	Discovered	February 16, 20	19		API# (if app	pplicable)			
Unit Letter	Section	Township	Range		nty				
В	11	17S	30E	Eddy					
M Cruda Oil	Materia	l(s) Released (Select a	Nature an			justification for the volumes provided below)			
Crude Oil	Materia	Volume Release	ed (bbls) 14	CII CAICUIACIO	ils of specific	Volume Recovered (bbls) 10			
Produced	Water	Volume Released (bbls)				Volume Recovered (bbls)			
			the concentration of dissolved chloride in the oduced water >10,000 mg/l?			☐ Yes ☐ No			
Condensa	te	Volume Released (bbls)				Volume Recovered (bbls)			
☐ Natural G	as	Volume Released (Mcf)				Volume Recovered (Mcf)			
Other (describe) Volume/Weight Released (provide units			de units)		Volume/Weight Recovered (provide units)				
Cause of Rele There was a f		ictaulic clamp on	a flow line.						

Form C-141 Page 2

State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the respon	nsible party consider this a major release?			
19.15.29.7(A) NMAC?					
☐ Yes ⊠ No					
If VES, was immediate no	ntice given to the OCD? By whom? To w	nom? When and by what means (phone, email, etc)?			
ii 110, was miniculate ne	side given to the oop. By whom: To wi	when and by what mouns (phone, onlan, cte);			
	Initial R	esponse			
The responsible p	party must undertake the following actions immediated	y unless they could create a safety hazard that would result in injury			
☐ The source of the rele	ase has been stopped.				
☐ The impacted area has	s been secured to protect human health and	the environment.			
Released materials ha	ve been contained via the use of berms or c	likes, absorbent pads, or other containment devices.			
<u>-</u>	coverable materials have been removed an				
If all the actions described	l 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.					
		pest 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: Chase S	Settle	Title: Safety and Environmental Rep II			
Signature: Chau Se	ettle	Date: 02/20/2019			
email: Chase_Settle@	eogresources.com	Telephone: 575-748-1471			
OCD Only					
Received by:		Date:			

Form C-141 Page 6

State of New Mexico Oil Conservation Division

Closure Report Attachment Checklist: Each of the following items must be included in the closure report.

Incident ID	
District RP	2RP-5252
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

A scaled site and sampling diagram as described in 19.15.29.	A scaled site and sampling diagram as described in 19.15.29.11 NMAC						
Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office nust be notified 2 days prior to liner inspection)							
☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)							
Description of remediation activities							
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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete. Printed Name: Chase Settle Title: Rep Safety and Environmental II Signature: Date: O5/09/2019 Date: O5/09/2019 Telephone: 575-748-1471							
OCD Only							
Received by:	Date:						
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.							
Closure Approved by:	Date:						
Printed Name:	Title:						



Appendix E BLM Sundry

Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR RUBEALL OF LAND MANAGEMENT

FORM APPROVED OMB No. 1004-0137 Evoires July 31, 2010

BUREAU OF LAND MANAGEMENT						Expires July 31, 2010		
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill or to re-enter an					5. Lease Serial No. NMNM2748			
abandoned well. Use Form 3160-3 (APD) for such proposals.						6. If Indian, Allottee or Tribe Name		
SUBMIT IN TRI	PLICATE - Other instru	uctions on pa	age 2.		7. If Unit or CA/Agreement, Name and/or No.			
	s Well Other				8. Well Name and No.			
2. Name of Operator					Gissler B 3-	1 Battery		
EOG Resources, Inc.		Dhana Na - (taskata			9. API Well No.			
104 S. 4th Str., Artesia, NM 8	ŧ	Phone No. <i>(include</i> 575-748						
4. Location of Well (Footage, Sec., T., R., M.		373-740	-14/1		10. Field and Poo Loco Hills	Field and Pool or Exploratory Area		
,				ŀ	11. County or Parish, State			
B-11-17S-30E								
	RIATE BOX(ES) TO INC	ICATE NATU	RE OF NO		Eddy County, New Mexico			
TYPE OF SUBMISSION			TYPE OF A		JOKI, OK OTHER DATA			
			TIPE OF A	CIIOI				
	Acidize	Deepen		Production (S	tart/Resume)	Water Shut-Off		
Notice of Intent	Alter Casing	Fracture Treat		Reclamation		Well Integrity		
X Subsequent Report	Casing Repair	New Construc	tion	Recomplete		X Other Cleanup		
	Change Plans	Plug and Aban	ndon Temporarily		bandon	actions to be taken.		
Final Abandonment Notice	Convert to Injection	Plug Back		Water Disposa	J.	-		
the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLMBIA. Required subsequent reports must be filled within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filled once testing has been completed. Final Abandonment Notices must be filled only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection. EOG Resources, Inc. initially increased the excavation depth of the V1 impacted area to two (2) feet bgs and the V2 and V3 impacted areas to seven (7) and seven and a half (7.5) feet bgs before conducting confirmation soil sampling (04/09/2019, results enclosed) of the sidewalls and bottom of the excavation. Based off these confirmation sample results, the V1 and East Sidewall were excavated further with the V1 area having an additional half (1/2) foot removed and the East Sidewall being excavated out one (1) additional foot east. Confirmation samples were again collected (04/16/2019, results enclosed) with the V1 area still presenting higher than Table 1 standards, therefore the V1 area was excavated to four (4) feet bgs and again resampled (04/30/2019, results enclosed). Analytical data from that sampling activity displayed results to be below Table 1 standards. All confirmation samples represented less than 200 square feet. Notification for all confirmation sampling activities were sent to NMOCD and BLM, April 4, 9, and 22, 2019. All excavated soil was hauled to a NMOCD approved facility for disposal, then the excavated areas were backfilled to grade with locally sourced soil of similar type.								
4. I hereby certify that the foregoing is true and correct Name (Printed/Typed)								
Chase S	Title I	Rep Safety and Environmental II						
Signature Chair Settle	Date Î	May 9, 201	9					
THIS SPACE FOR FEDERAL OR STATE OFFICE USE								
Approved by		Title		Date				
Conditions of approval, if any, are attached. Approval of this notice does not warrant or sertify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.			Office		Late			

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13 - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment.

NOTICES

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and grantingapproval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240