



*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 $\frac{3}{4}$ 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 1

Soil Analytical Data

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
EW C	0-2	4/8/19	<0.050	<0.050	0.115	0.344	0.459	17.4	1010	244	1271.4	720
EW C#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

Glissler B 3-1 Battery

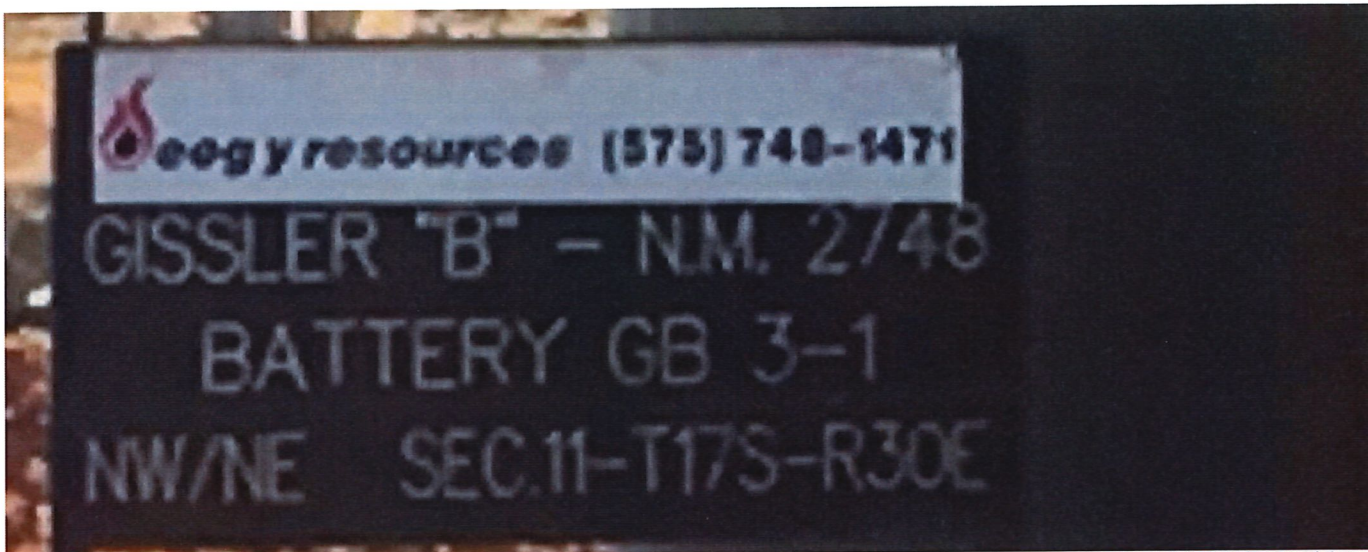
2RP-5252
Release and Sample Point Map

Legend

- Glissler B 3-1 Battery Release
- Sample Point



Photos



Appendix A

USGS Groundwater Information



National Water Information System: Map View

Sites

Map Layers

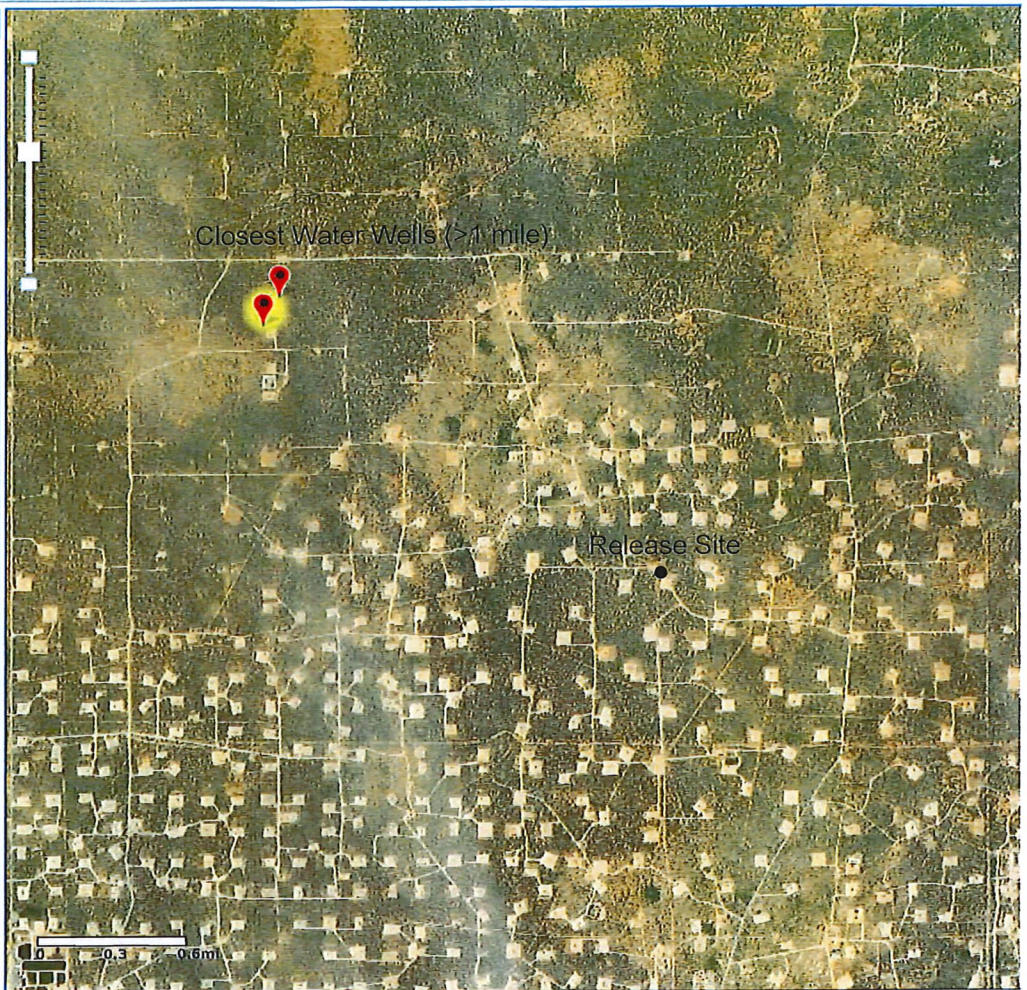
Search Results

Export Sites

Site Number	Site Name
3252101035801 01	16S.30E.33.44233
3252161035757 01	16S.30E.33.42443

Search Parameters

Explanation of Symbols





National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:

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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.

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
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Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
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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Title: Groundwater for USA: Water Levels

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

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

Page Last Modified: 2018-12-19 11:58:31 EST

0.5 0.43 nadwv01





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National Water Information System: Web Interface

USGS Water Resources

Data Category: Geographic Area:

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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

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
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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Page Contact Information: [USGS Water Data Support Team](#)

Page Last Modified: 2018-12-19 11:58:58 EST

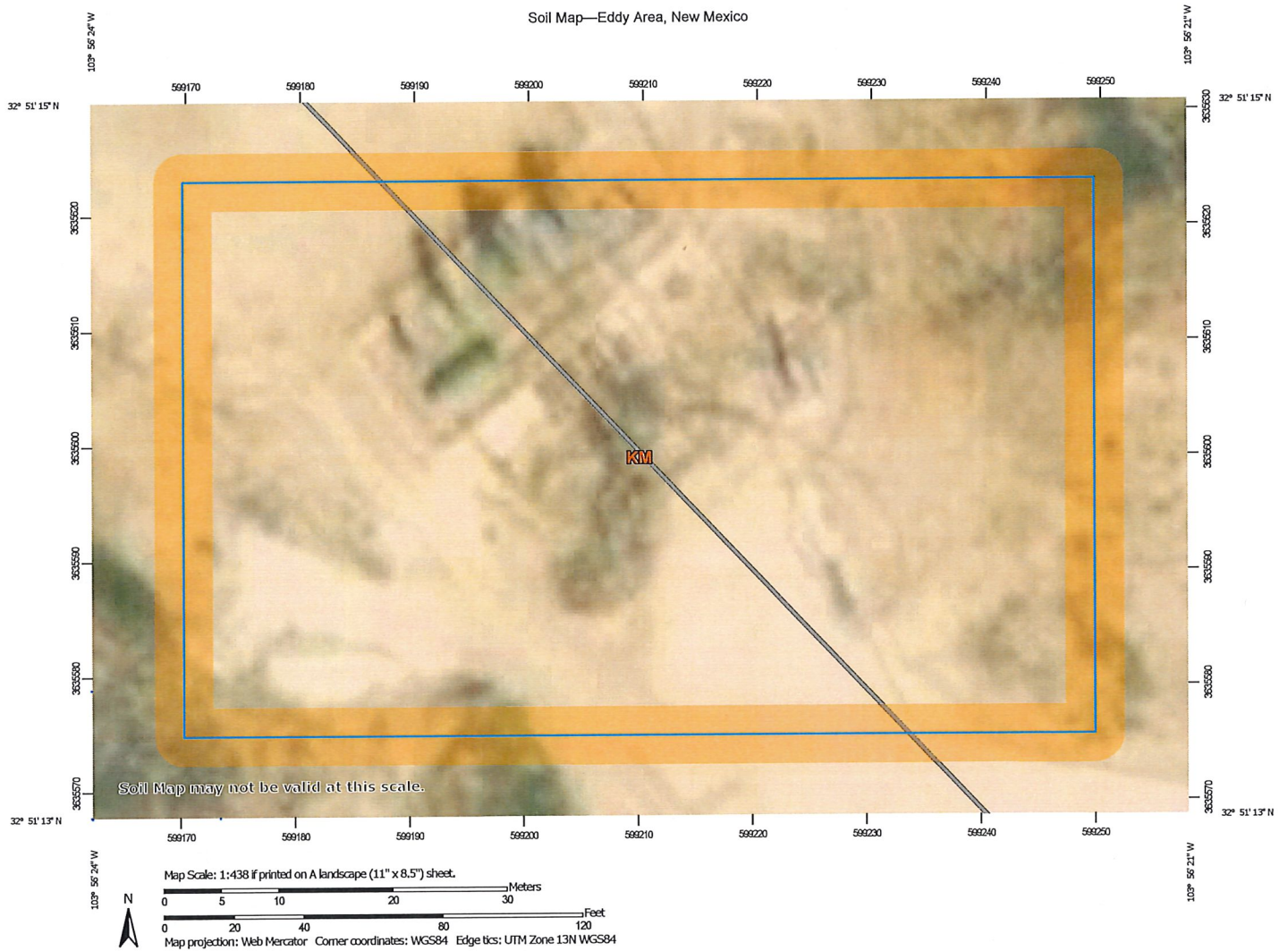
0.51 0.43 nadwv01



Appendix B

NRCS Soil Classification

Soil Map—Eddy Area, New Mexico



Soil Map—Eddy Area, New Mexico

MAP LEGEND

Area of Interest (AOI)		Spoil Area
Area of Interest (AOI)		Stony Spot
Soils		Very Stony Spot
Soil Map Unit Polygons		Wet Spot
Soil Map Unit Lines		Other
Soil Map Unit Points		Special Line Features
Special Point Features		Water Features
Blowout		Streams and Canals
Borrow Pit		Transportation
Clay Spot		Rails
Closed Depression		Interstate Highways
Gravel Pit		US Routes
Gravelly Spot		Major Roads
Landfill		Local Roads
Lava Flow		Background
Marsh or swamp		Aerial Photography
Mine or Quarry		
Miscellaneous Water		
Perennial Water		
Rock Outcrop		
Saline Spot		
Sandy Spot		
Severely Eroded Spot		
Sinkhole		
Slide or Slip		
Sodic Spot		

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Warning: Soil Map may not be valid at this scale.

Enlargement of maps beyond the scale of mapping can cause misunderstanding of the detail of mapping and accuracy of soil line placement. The maps do not show the small areas of contrasting soils that could have been shown at a more detailed scale.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

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 accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Eddy Area, New Mexico
Survey Area Data: Version 14, Sep 12, 2018

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Sep 18, 2016—Nov 20, 2017

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

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 C

Laboratory Soil Data



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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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: 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)

BTX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 BTX	19.4	0.300	03/07/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIE) 96.6 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 41-142

Surrogate: 1-Chlorooctadecane 213 % 37.6-147

Cardinal Laboratories

* = 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.

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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: 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 1-2.5' (H900915-02)

BTEX 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 (PIC) 95.8 % 73.3-129

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		Analyzed 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 % 41-142

Surrogate: 1-Chlorooctadecane 109 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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: 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 1-3.5' (H900915-03)

BTEX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIC) 96.2 % 73.3-129

Chloride, SM4500Cl-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		Analyzed 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					

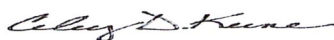
Surrogate: 1-Chlorooctane 97.6 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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: 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 1-4.5' (H900915-04)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIE) 95.4 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
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		Analyzed 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					

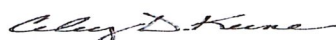
Surrogate: 1-Chlorooctane 96.1 % 41-142

Surrogate: 1-Chlorooctadecane 101 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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: 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						
			Analyzed 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 (PIE) 103 % 73.3-129

Chloride, SM4500Cl-B			mg/kg						
			Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	03/07/2019	ND	416	104	400	0.00	

TPH 8015M			mg/kg						
			Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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					

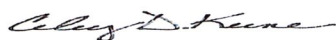
Surrogate: 1-Chlorooctane 93.4 % 41-142

Surrogate: 1-Chlorooctadecane 96.7 % 37.6-147

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Analytical Results For:

 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: 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 2-1.5' (H900915-06)

BTEX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIE) 98.1 % 73.3-129

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		Analyzed 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 % 41-142

Surrogate: 1-Chlorooctadecane 102 % 37.6-147

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Analytical Results For:

 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: 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		Analyzed 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 (PIC) 110 % 73.3-129

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		Analyzed 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						

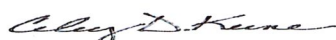
Surrogate: 1-Chlorooctane 265 % 41-142

Surrogate: 1-Chlorooctadecane 412 % 37.6-147

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Analytical Results For:

 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: 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 2-3.5' (H900915-08)

BTEX 8021B		mg/kg		Analyzed 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 (PIE) 112 % 73.3-129

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		Analyzed 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						

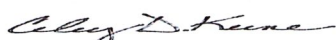
Surrogate: 1-Chlorooctane 242 % 41-142

Surrogate: 1-Chlorooctadecane 326 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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: 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 2-4.5' (H900915-09)

BTEX 8021B		mg/kg		Analyzed 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 (PIE) 105 % 73.3-129

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		Analyzed 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 % 41-142

Surrogate: 1-Chlorooctadecane 316 % 37.6-147

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Analytical Results For:

 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: 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 2-5.5' (H900915-10)

BTEX 8021B		mg/kg		Analyzed 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 (PIE) 109 % 73.3-129

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		Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
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						

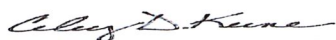
Surrogate: 1-Chlorooctane 249 % 41-142

Surrogate: 1-Chlorooctadecane 348 % 37.6-147

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Analytical Results For:

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: 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 3-1.5' (H900915-11)

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIE) 100 % 73.3-129

Chloride, SM4500Cl-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		Analyzed 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					

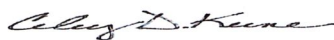
Surrogate: 1-Chlorooctane 89.1 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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: 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 3-2.5' (H900915-12)

BTEX 8021B		mg/kg		Analyzed 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 (PIE) 99.4 % 73.3-129

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		Analyzed 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						

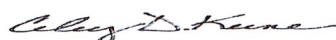
Surrogate: 1-Chlorooctane 120 % 41-142

Surrogate: 1-Chlorooctadecane 211 % 37.6-147

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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: 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 (PIE) 110 % 73.3-129

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	Analyzed 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 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 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: 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 3-4.5' (H900915-14)

BTEX 8021B		mg/kg		Analyzed 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 (PIE) 98.3 % 73.3-129

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		Analyzed 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						

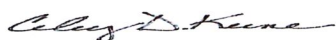
Surrogate: 1-Chlorooctane 193 % 41-142

Surrogate: 1-Chlorooctadecane 173 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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: 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	Analyzed 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 (PIE) 118 % 73.3-129

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	Analyzed By: MS							S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
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 % 41-142

Surrogate: 1-Chlorooctadecane 379 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

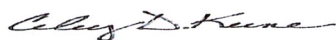
Notes and Definitions

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.
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. Keene, Lab Director/Quality Manager

101 East Marland, Hobbs, NM 88240

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

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Name: Gissler B 3-1 Battery

Project #: 2RP-5252

Project Loc: Gissler B 3-1 Battery

PO #: 205-0750

Fax No:

Report Format: ☒ Standard ☐ TRRP ☐ NPDES

Chase.Settle@geogresources.com

ORDER #: 11700915

(lab use only)					
ORDER #: H900915					
LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled
1	V1-1.5'			2/28/2019	9:19 AM
2	V1-2.5'			2/28/2019	9:23 AM
3	V1-3.5'			2/28/2019	9:25 AM
4	V1-4.5'			2/28/2019	9:31 AM
5	V1-5.5'			2/28/2019	9:42 AM
6	V2-1.5'			2/28/2019	10:00 AM
7	V2-2.5'			2/28/2019	10:08 AM
8	V2-3.5'			2/28/2019	10:23 AM
9	V2-4.5'			2/28/2019	10:48 AM
10	V2-5.5'			2/28/2019	11:00 AM
Special Instructions:					
TPH EXTENDED NEEDED					
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	3/6/19	11:30	Yochi Munson	3/6/19	14:00
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
Relinquished by:					
Laboratory Comments:					
Sample Containers Intact? <input checked="" type="checkbox"/> Y					
VOCs Free of Headspace? <input checked="" type="checkbox"/> Y					
Labels on container(s) <input checked="" type="checkbox"/> Y					
Custody seals on container(s) <input checked="" type="checkbox"/> Y					
Custody seals on cooler(s) <input checked="" type="checkbox"/> Y					
Sample Hand Delivered by Sampler/Client Rep.? <input checked="" type="checkbox"/> Y					
by Courier? UPS DHL FedEx Lone Star					
Temperature Upon Receipt: 2.3 °C					



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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink, appearing to read "Mike Snyder".

Mike Snyder For Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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

 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: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTX 8021B		mg/kg		Analyzed 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 BTX	8.23	0.300	03/28/2019	ND					

Surrogate: 4-Bromofluorobenzene (PIC) 116 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 37.6-147

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* = Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 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: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTEX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIE) 94.3 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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 % 37.6-147

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* = Accredited Analyte

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

 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: Cool & Intact
 Sample Received By: Tamara Oldaker

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

BTEX 8021B		mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIE) 93.8 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/28/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 % 37.6-147

Cardinal Laboratories

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

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: Cool & Intact
Sample Received By: Tamara Oldaker

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

BTEX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIC) 93.7 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	03/28/2019	ND	400	100	400	3.92	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 % 37.6-147

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager

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

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Mike Snyder For Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240

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

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

Gissler B 3-1 Battery

Project #: 2RP-5252

Gissler B 3-1 Battery

PO #: 205-0750

☐ NPDES

Chase.Settle@eogresources.com

ORDER#

H901150

Analyze For:

hrs

standard TAT

Laboratory Comments:



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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

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: 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	Analyzed 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 (PIE) 107 % 73.3-129

Chloride, SM4500Cl-B		mg/kg	Analyzed 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	Analyzed 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 % 41-142

Surrogate: 1-Chlorooctadecane 198 % 37.6-147

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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: 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 2 C 7' (H901269-02)

BTEX 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 (PIE) 90.8 % 73.3-129

Chloride, SM4500Cl-B			mg/kg							Analyzed 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		Analyzed 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						

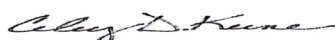
Surrogate: 1-Chlorooctane 101 % 41-142

Surrogate: 1-Chlorooctadecane 96.7 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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: 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 3 C 7.5' (H901269-03)

BTEX 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 (PIE) 92.3 % 73.3-129

Chloride, SM4500Cl-B			mg/kg							Analyzed 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		Analyzed 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						

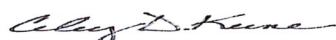
Surrogate: 1-Chlorooctane 105 % 41-142

Surrogate: 1-Chlorooctadecane 111 % 37.6-147

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

BTEX 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 (PIE) 93.0 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	304	16.0	04/09/2019	ND	416	104	400	0.00	

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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					

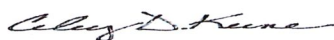
Surrogate: 1-Chlorooctane 110 % 41-142

Surrogate: 1-Chlorooctadecane 108 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

BTEX 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 (PIC) 95.9 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed 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		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
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 % 41-142

Surrogate: 1-Chlorooctadecane 144 % 37.6-147

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

BTEX 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 (PIE) 91.1 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed 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	Analyzed 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						

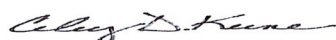
Surrogate: 1-Chlorooctane 103 % 41-142

Surrogate: 1-Chlorooctadecane 117 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

BTEX 8021B			mg/kg		Analyzed By: ms				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	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 (PIC) 98.7 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed 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		Analyzed 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					

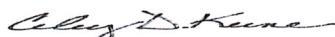
Surrogate: 1-Chlorooctane 92.2 % 41-142

Surrogate: 1-Chlorooctadecane 132 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

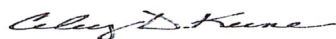
Notes and Definitions

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 SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

[illegible]



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

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

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: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: V1C - 2.5 (H901377-01)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 (PIE) 97.1 % 73.3-129

Chloride, SM4500Cl-B			mg/kg							Analyzed 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		Analyzed 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 % 41-142

Surrogate: 1-Chlorooctadecane 119 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

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: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: EWC #2 (H901377-02)

BTEX 8021B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 (PIE) 107 % 73.3-129

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/16/2019	ND	400	100	400	0.00		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	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 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

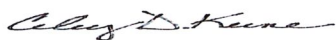
Notes and Definitions

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

Cardinal Laboratories

* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

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/qa/lab_accred_certif.html.

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

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

Accreditation applies to public drinking water matrices.

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

Sincerely,

Caley D. Keene

Lab Director/Quality Manager

Analytical Results For:

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: Cool & Intact
Sample Received By: Jodi Henson

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

BTEX 8021B			mg/kg		Analyzed By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	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 (PII) 98.2 % 73.3-129

Chloride, SM4500Cl-B		mg/kg		Analyzed 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		Analyzed 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					

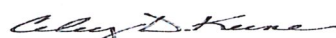
Surrogate: 1-Chlorooctane 113 % 41-142

Surrogate: 1-Chlorooctadecane 112 % 37.6-147

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

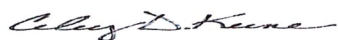
Notes and Definitions

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

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Appendix D

Form 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 Resources, Inc.	7377
Chase Settle	575-748-1471
Chase_Settle@eogresources.com	Incident # (assigned by OCD)
104 S. 4 th Street, Artesia, NM 88210	

Location of Release Source

Latitude 32.85395

Longitude -103.93980
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Gissler B 3-1 Battery	Site Type Battery
Date Release Discovered February 16, 2019	API# (if applicable)

Unit Letter	Section	Township	Range	County
B	11	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) 14	Volume Recovered (bbls) 10
<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

There was a failure of a Victaulic clamp on a flow line.

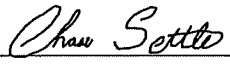
State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <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>Chase Settle</u>	Title: <u>Safety and Environmental Rep II</u>
Signature: <u></u>	Date: <u>02/20/2019</u>
email: <u>Chase_Settle@eogresources.com</u>	Telephone: <u>575-748-1471</u>
<u>OCD Only</u>	
Received by: _____	Date: _____

State of New Mexico
Oil Conservation Division

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

Closure

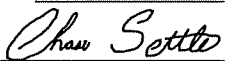
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled 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.

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

- ☒ 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 must 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: 05/09/2019

email: Chase_Settle@eogresources.com 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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

SUNDRY NOTICES AND REPORTS ON WELLS
*Do not use this form for proposals to drill or to re-enter an
abandoned well. Use Form 3160-3 (APD) for such proposals.*

5. Lease Serial No.

NMNM2748

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

EOG Resources, Inc.

3a. Address

104 S. 4th Str., Artesia, NM 88210

3b. Phone No. (Include area code)

575-748-1471

4. Location of Well (Footage, Sec., T., R., M., OR Survey Description)

B-11-17S-30E

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

Gissler B 3-1 Battery

9. API Well No.

10. Field and Pool or Exploratory Area

Loco Hills

11. County or Parish, State

Eddy County, New Mexico

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>Cleanup</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	actions to be taken.
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat 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 BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed 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.

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Chase Settle

Title Rep Safety and Environmental II

Signature

Chase Settle

Date May 9, 2019

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 certify 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

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 granting approval 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