

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

EOG Resources, Inc.

Characterization & Remediation Plan

Lacama 20 State Com #602H

30-015-46365

nRH2003551820

Section 19, T18S-R25E

Eddy County, New Mexico

June 3, 2020



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I. Location

Go south on Highway 285 from Artesia, New Mexico to Four Dinkus Road (CR 39, between MM 63 & MM 64). Turn right (West) and continue approximately 6.5 miles to access road to the south. Turn left (south) on lease road and continue approximately 0.6 miles, cross over a cattle guard. Turn right (west) and continue approximately 1 mile, turn right and continue to the southeast corner of the pad.

II. Background

EOG Resources, Inc. submitted to the NMOCD District I office a Form C-141, Release Notification for the release of 8 yrs3/Freshwater Drill Cuttings with 7 yds3/Freshwater Drill Cuttings recovered, that occurred on December 6, 2019. The affected area is approximately 10' X 35' on the well pad. Roll-off container with freshwater drill cuttings left the location. When the vehicle crossed the cattle guard the rear gate opened allowing 8 Cubic yards of cuttings to dump on the access road entrance and cattle guard. Equipment was utilized to scrape up the cuttings. The release occurred on the well pad and remained on the well pad

III. Surface and Depth to Ground Water

Area surface geology is Piedmont alluvial deposits. The Lacama 20 State Com #602H is not located in a High/Critical karst area per Bureau of Land Management Karst kmz files (per the Carlsbad Field Office).

Based on information regarding this location (Section 19, T18S-R25E), the United States Geological Survey (USGS) National Water Information System, indicates the depth to groundwater as follows: USGS #324516104314601 (Depth to Water: 312'; Field Groundwater-Level Measurements: 1/24/2003; Distance from Location: 1.34 miles), USGS #324406104330701 (Depth to water: 385'; Field Groundwater-Level Measurements: 2/2/1999; Distance from Location: 1.94 miles), USGS #324430104284801 (Depth to Water: 135', Field groundwater-level measurements: 1/28/2013, Distance from Location: 2.3 miles). USGS # 324251104304901 (Depth to Water: 300', Field groundwater-level measurements: 2/7/1984, Distance from Location: 1.53 miles). See Appendix 2.

Watercourses in the area are dry except for infrequent flows in response to major precipitation events, lateral extents of the release are not within a 100-year floodplain and the distance to nearest significant watercourse being approximately 303' of the location (Appendix 4).

IV. NMOCD Table I Criteria

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

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



V. Site Delineation Status

Initial sampling was conducted on January 14, 2020, with samples collected being 5 point composite samples at the depth of Surface, 6" and 1' BSL & GPS coordinates are shown below and results on Appendix 5.

(32.73532°; -104.51968°) (32.73530°, -104.51967°) (32.73528°; -104.51969°) (32.73526°; -104.51968°) (32.73525°; -104.51969°)

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

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

Field Data/Sample Data (Appendix 5).

Laboratory Data and COC (Appendix 6).



VI. Remediation Plan

EOG proposes the following remediation plan.

Based off of the 1/14/2020 enclosed analytical results. EOG has excavated the top 4-6" of contaminated soils (these soils were taken to an approved NMOCD facility.

EOG will notify the appropriate division district office two business days prior to conducting final sampling. A base 5-point composite sample(s) will be collected to show horizontal and vertical remediation. Each composite sample must not be representative of more than 200 ft².

If all composite and grab sample concentrations are less than or equal to the parameters listed in Table I, then the responsible party will proceed to backfill the excavated area(s) with approximately 6.5 cubic yards of clean/like backfill material.

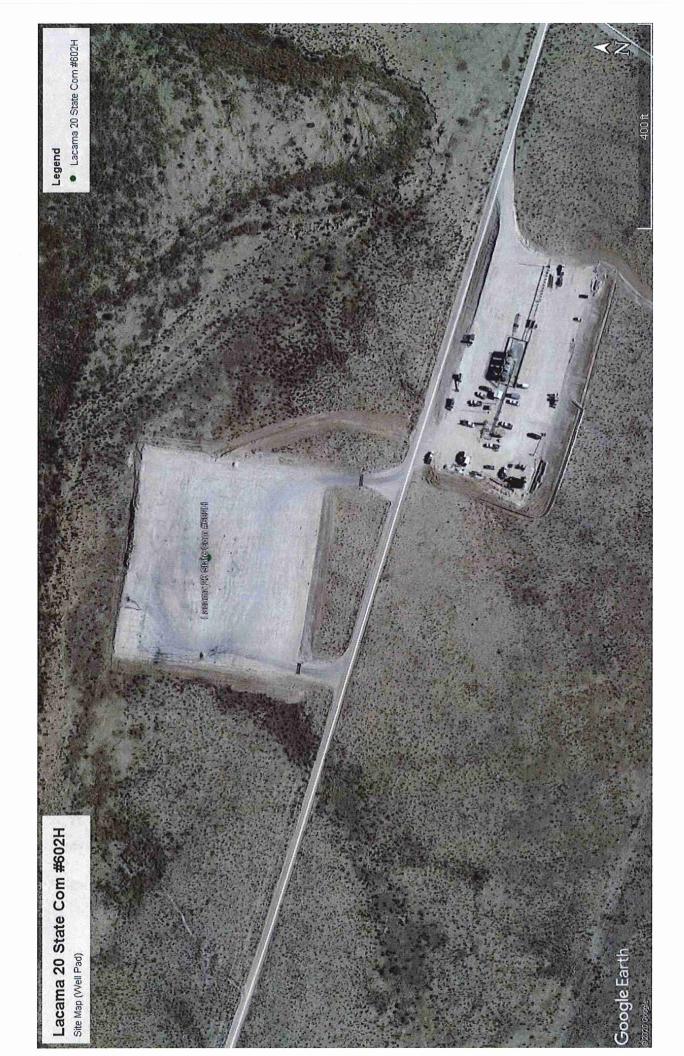
VII. Site Closure

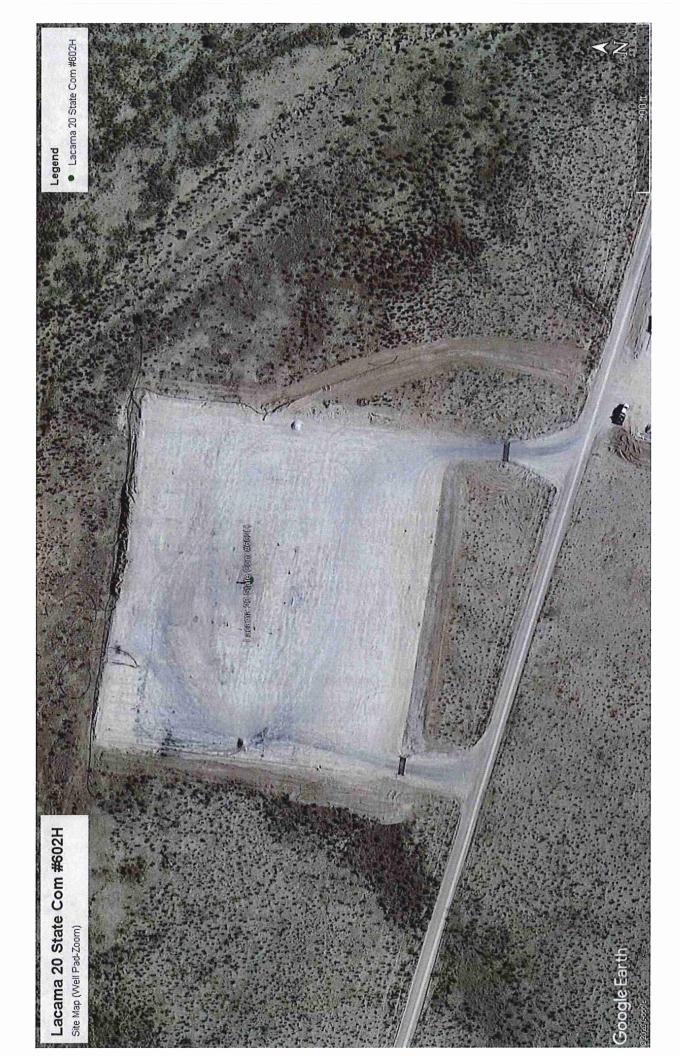
Upon completion of the remedial and backfilling activities, EOG Resources, Inc. will submit a Form C-141/Closure to the NMOCD, including the Closure Report Attachment Checklist.



Appendix 1

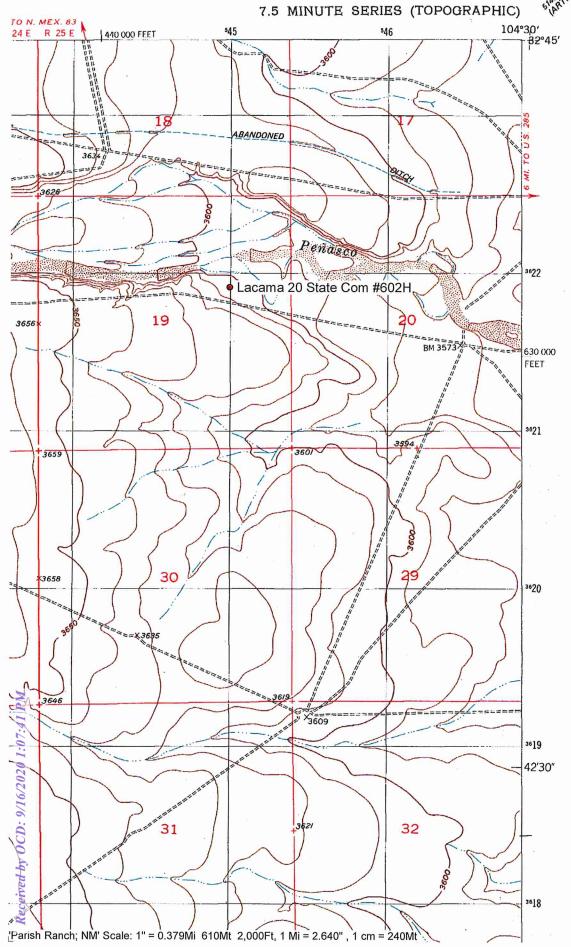
Site/Topo/Impacted Map

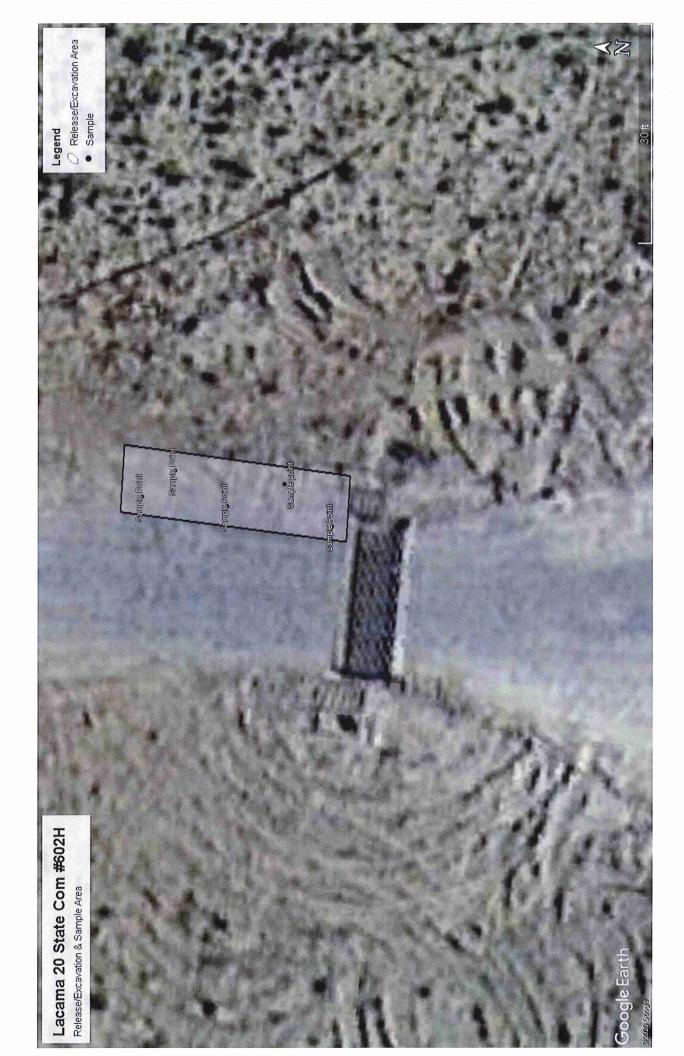




PARISH RANCH QUADRANGLE NEW MEXICO-EDDY CO. 7.5 MINUTE SERIES (TOPOGRAPHIC)

STAPTESTA

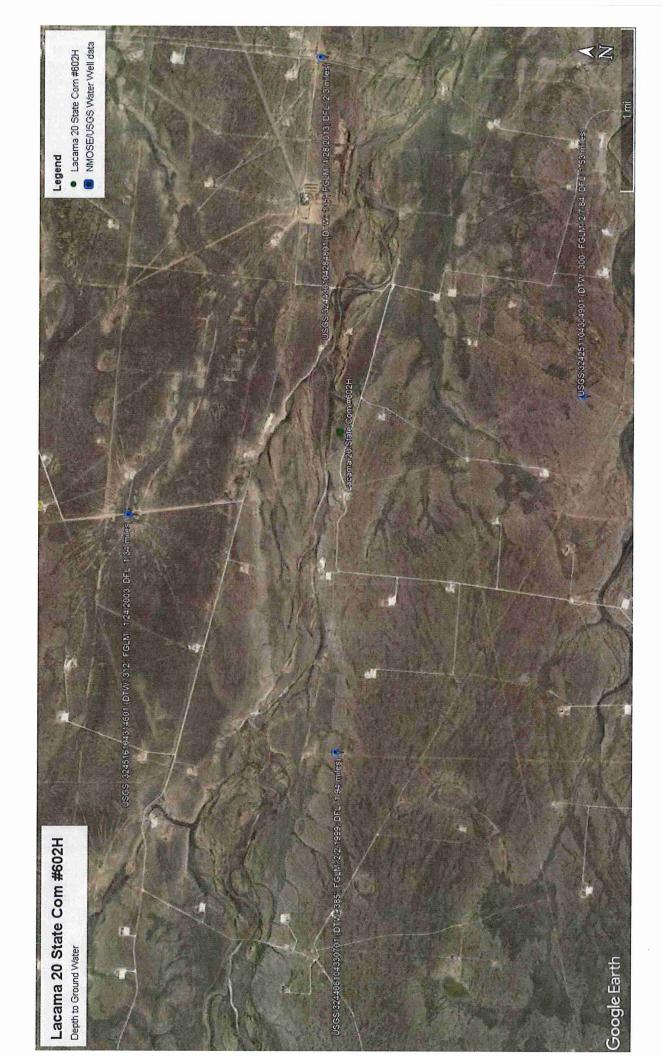






Appendix 2

Surface and Depth to Ground Water





National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic Area:		
Site Information	~	United States	~	GO

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USGS 324516104314601 18S.25E.18.114131

Available data for this site SUMMARY OF ALL AVAILABLE DATA V

Well Site

DESCRIPTION:

Latitude 32°45'16", Longitude 104°31'46" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060010

Well depth: 305.0 feet

Land surface altitude: 3,632 feet above NAVD88.

Well completed in "San Andres Limestone" (313SADR) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level	1984-02-	2003-01-	0
<u>measurements</u>	06	24	0
Revisions	Unavailable		
IXCVISIONS	(timeseries:0)	

OPERATION:

Record for this site is maintained by the USGS New Mexico Water Science

Email questions about this site to New Mexico Water Science Center Water-**Data Inquiries**

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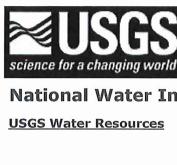
Title: NWIS Site Information for USA: Site Inventory URL: https://waterdata.usgs.gov/nwis/inventory? agency_code=USGS&site_no=324516104314601



Page Contact Information: New Mexico Water Data Support Team

Page Last Modified: 2020-01-15 16:45:42 EST

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National Water Information System: Web Interface

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

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Search Results -- 1 sites found

site_no list =

• 324516104314601

Minimum number of levels = 1

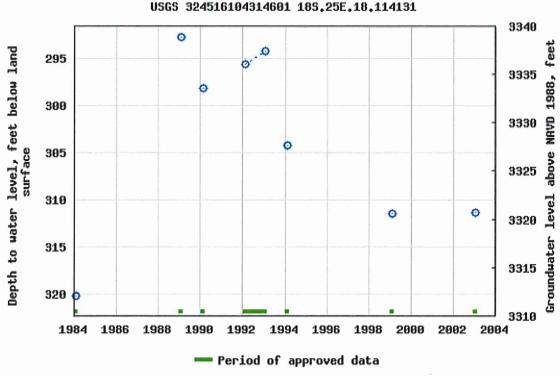
Save file of selected sites to local disk for future upload

USGS 324516104314601 18S.25E.18.114131

Available data for this site	Groundwater:	Field measurements	∨ G	GO
Eddy County, New Mexico				
Hydrologic Unit Code 13060	0010			
Latitude 32°45'16", Longit	ude 104°31	L'46" NAD27		
Land-surface elevation 3,63	32 feet abo	ve NAVD88		
The depth of the well is 305	5.0 feet bel	ow land surface.		
This well is completed in th	e San Andr	es Limestone (31	3SADR	() local aquifer.

Output	formats

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



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

Download a presentation-quality graph

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Title: Groundwater for USA: Water Levels

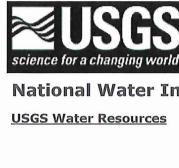
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

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National Water Information System: Web Interface

Data Category:		Geographic Area:		
Site Information	~	United States	~	GO

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USGS 324406104330701 18S.24E.23.42141

Available data for this site SUMMARY OF ALL AVAILABLE DATA V

Well Site

DESCRIPTION:

Latitude 32°44'06", Longitude 104°33'07" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060010

Well depth: 475 feet

Land surface altitude: 3,668 feet above NAVD88.

Well completed in "San Andres Limestone" (313SADR) local aguifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level	1984-02-	1999-02-	6
<u>measurements</u>	06	02	6
Revisions	Unavailable	,	
	(timeseries:0))	

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Title: NWIS Site Information for USA: Site Inventory URL: https://waterdata.usgs.gov/nwis/inventory? agency_code=USGS&site_no=324406104330701



Page Contact Information: New Mexico Water Data Support Team

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96-9	Water	Recource	. =

Data Category:			Geographic Area:		
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• 324406104330701

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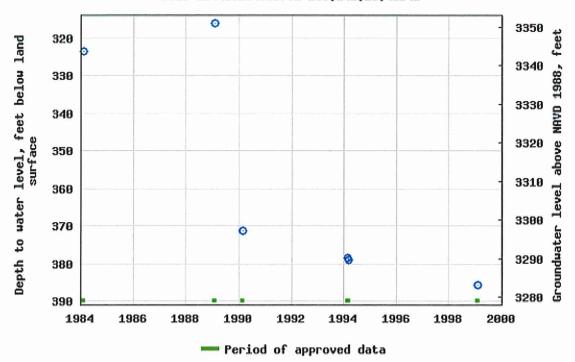
Available data for this site Groundwater: Field measurements V GO
Eddy County, New Mexico
Hydrologic Unit Code 13060010
_atitude 32°44'06", Longitude 104°33'07" NAD27
and-surface elevation 3,668 feet above NAVD88
The depth of the well is 475 feet below land surface.
This well is completed in the San Andres Limestone (313SADR) local aquifer

Output formats

Table of data
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Graph of data
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USGS 324406104330701 185,24E,23,42141



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	Site Information	~	United States	~	GO

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USGS 324430104284801 18S.25E.22.111314

Available data for this site SUMMARY OF ALL AVAILABLE DATA V

Well Site

DESCRIPTION:

Latitude 32°44'30", Longitude 104°28'48" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060007

Well depth: 320.0 feet

Land surface altitude: 3,537 feet above NAVD88.

Well completed in "San Andres Limestone" (313SADR) local aguifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1955-01- 05	2013-01- 28	18
Pavisions	Unavailable (timeseries:0		

OPERATION:

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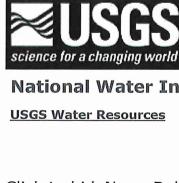
Title: NWIS Site Information for USA: Site Inventory URL: https://waterdata.usgs.gov/nwis/inventory? agency_code=USGS&site_no=324430104284801



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Groundwater	~	United States	~	GO

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Minimum number of levels = 1

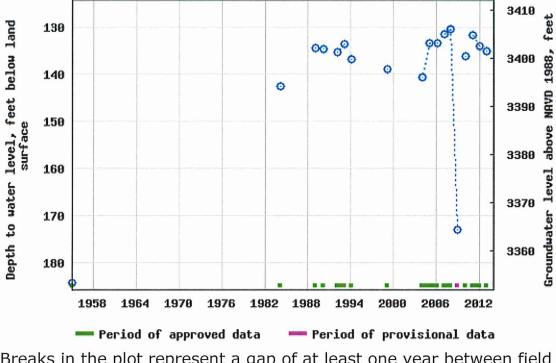
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USGS 324430104284801 18S.25E.22.111314

Available data for this site Groundwater: Field measurements V GO
Eddy County, New Mexico
Hydrologic Unit Code 13060007
Latitude 32°44'30", Longitude 104°28'48" NAD27
Land-surface elevation 3,537 feet above NAVD88
The depth of the well is 320.0 feet below land surface.
This well is completed in the San Andres Limestone (313SADR) local aquifer.

Output formats

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



USGS 324430104284801 185,25E,22,111314

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Data Category:		Geographic Area:		
Site Information	~	United States	~	GO

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USGS 324251104304901 18S.25E.32.11114

Available data for this site SUMMARY OF ALL AVAILABLE DATA >

Well Site

DESCRIPTION:

Latitude 32°42'51", Longitude 104°30'49" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060010

Well depth: 425 feet

Land surface altitude: 3,620 feet above NAVD88.

Well completed in "San Andres Limestone" (313SADR) local aguifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count	
Field groundwater-level	1955-01-	1984-02-	1	
<u>measurements</u>	05	07	4	
Revisions	Unavailable (site:0)			
	(timeseries:0)	(timeseries:0)		

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USA.gov

Page Contact Information: New Mexico Water Data Support Team

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Groundwater	~	United States	~	GO

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Search Results -- 1 sites found

site_no list =

• 324251104304901

Minimum number of levels = 1

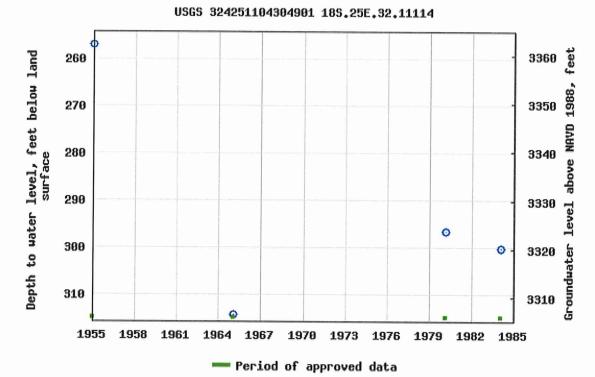
Save file of selected sites to local disk for future upload

USGS 324251104304901 18S.25E.32.11114

Available data for this site	Groundwater:	Field measurements	~ (GO	
Eddy County, New Mexico					
Hydrologic Unit Code 13060	010				
Latitude 32°42'51", Longiti	ude 104°30)'49" NAD27			
Land-surface elevation 3,62	20 feet abo	ve NAVD88			
The depth of the well is 425	feet belov	v land surface.			
This well is completed in the	e San Andr	es Limestone (3:	13SADF	२) local	aquifer.

Output formats

<u> Fable of data</u>	
Tab-separated data	
Graph of data	
Reselect period	



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

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Title: Groundwater for USA: Water Levels

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

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2020-01-15 17:38:59 EST

0.59 0.48 nadww01



OTHER AREAS OF FLOOD HAZARD OTHER FEATURES MAP PANELS OTHER AREAS 104°30'54.77"W USGS The National Map: Orthoimagery. Data refreshed April, 2019. 32°43'53.41"N AREA OF MINIMAL FLOOD HAZARD Zone XX 85015015250 eff.6/4/2010 ZoneA

Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS

With BFE or Depth Zone AE, AO, AH, VE, AR

Without Base Flood Elevation (BFE)

0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average Regulatory Floodway

depth less than one foot or with drainage

areas of less than one square mile Zone

Future Conditions 1% Annual



Area with Reduced Flood Risk due to Chance Flood Hazard Zone x Levee. See Notes. Zone X



Area with Flood Risk due to Levee Zone D

NO SCREEN Area of Minimal Flood Hazard Zone X

Effective LOMRs

Area of Undetermined Flood Hazard Zon

Channel, Culvert, or Storm Sewer STRUCTURES | 1111111 Levee, Dike, or Floodwall

GENERAL

Cross Sections with 1% Anrual Chance Water Surface Elevation

Coastal Transect

Base Flood Elevation Line (BFE) Limit of Study

Jurisdiction Boundary

Coastal Transect Baseline Hydrographic Feature Profile Baseline

Digital Data Available

No Digital Data Available

Unmapped

The pin displayed on the map is an approximate point selected by the user and does not represe an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap

authoritative NFHL web services provided by FEMA. This map reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or was exported on 6/3/2020 at 10:56:41 AM and does not The flood hazard information is derived directly from the become superseded by new data over time. This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

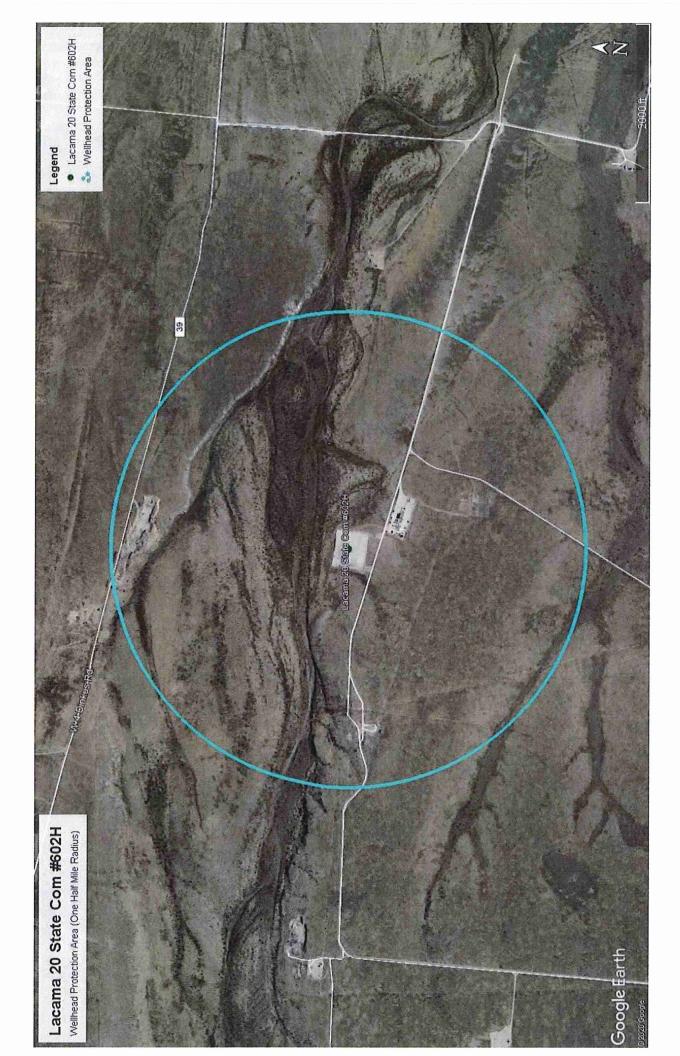
500

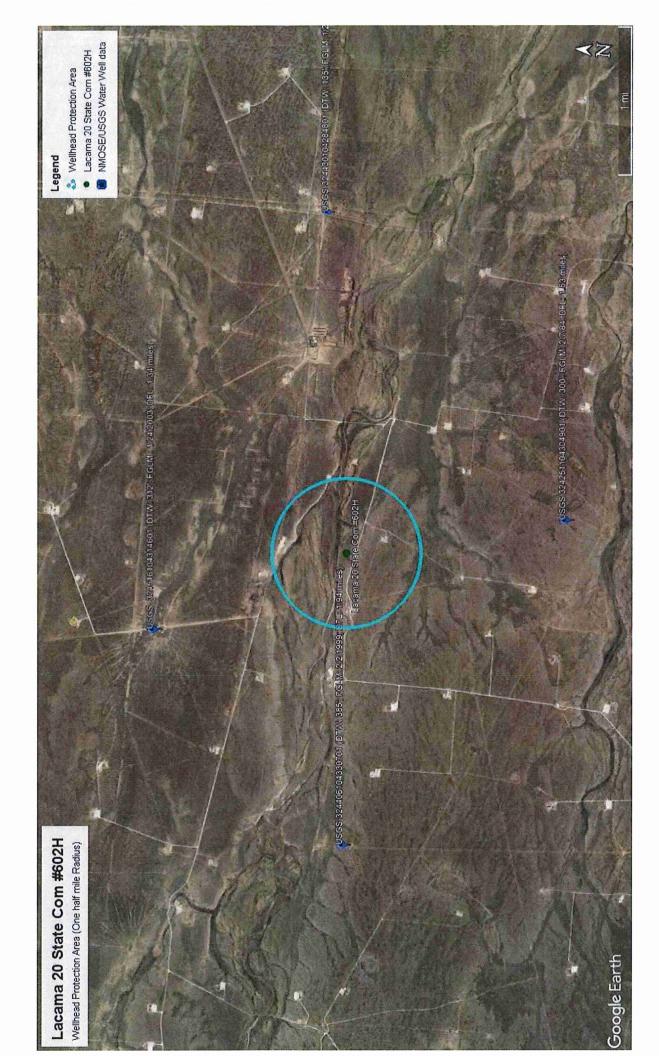
250



Appendix 3

Wellhead Protection Area



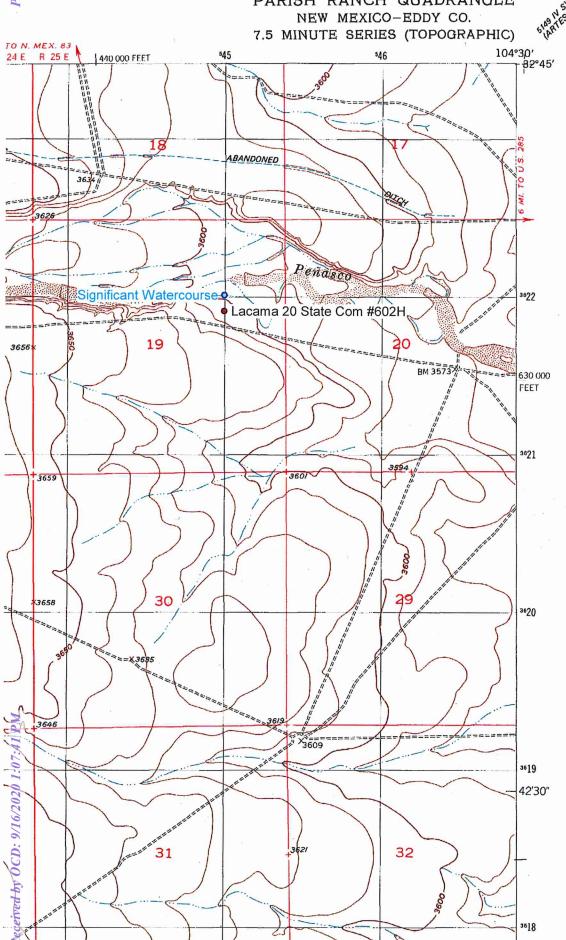




Appendix 4

Distance to Nearest Significant Watercourse

PARISH RANCH QUADRANGLE NEW MEXICO-EDDY CO.



Parish Ranch; NM' Scale: 1" = 0.379Mi 610Mt 2,000Ft, 1 Mi = 2.640", 1 cm = 240Mt





Appendix 5

Field Data/Sample Data

Lacoma 20 State Com #602H Sample Data Per NMOCD Table I Criteria

Sample ID	Depth (ft. bgs)	Date	Chloride	TPH (GRO+DRO+ MRO)	GRO+DRO	BTEX	Benzene
S-1.S	Surface	1/14/20	521	4734	4420	2.6950	0.3
S-1.0.5	6"	1/14/20	43	27.9	27.9	ND	ND
S-1.1	12"	1/14/20	ND	ND	ND	ND	ND

MOCD T	able I Criteria	3	
Depth	Constituent	Method	Limit
>100'	Chloride	EPA 300.0 or SM4500 CI B	20,000 mg/kg
	TPH (GRO+DRO +MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg



Appendix 6

Laboratory Data and COC

Analytical Report

Report Summary

Client: EOG Resources Inc. - Carlsbad

Samples Received: 1/16/2020 Job Number: 19034-0001

Work Order: P001052

Project Name/Location: Lacama 20 State Com

#602H

Report Reviewed By:

Walter Hinkman

Date:

1/22/20

Walter Hinchman, Laboratory Director

Supplement to analytical report generated on: 1/22/20 11:41 am



Received by OCD: 9/16/2020 1:07:41 PM

Envirotech Inc. certifies the test results meet all requirements of TNI unless footnoted otherwise.

Statement of Data Authenticity: Envirotech, Inc, attests the data reported has not been altered in any way.

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

Envirotech, Inc, holds the Utah TNI certification NM009792018-1 for the data reported.

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

5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



Project Name:

Lacama 20 State Com #602H

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 01/22/20 12:20

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-1.S	P001052-01A	Soil	01/14/20	01/16/20	Glass Jar, 4 oz.
S-1.0.5	P001052-02A	Soil	01/14/20	01/16/20	Glass Jar, 4 oz.
S-1.1	P001052-03A	Soil	01/14/20	01/16/20	Glass Jar, 4 oz.

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Project Name:

Lacama 20 State Com #602H

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher

Reported: 01/22/20 12:20

S-1.S P001052-01 (Solid)

		Reporting	,						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	0.273	0.0250	mg/kg	1	2003036	01/17/20	01/17/20	EPA 8021B	
Toluene	1.20	0.0250	mg/kg	1	2003036	01/17/20	01/17/20	EPA 8021B	
Ethylbenzene	0.152	0.0250	mg/kg	1	2003036	01/17/20	01/17/20	EPA 8021B	
p,m-Xylene	0.865	0.0500	mg/kg	1	2003036	01/17/20	01/17/20	EPA 8021B	
o-Xylene	0.205	0.0250	mg/kg	1	2003036	01/17/20	01/17/20	EPA 8021B	
Total Xylenes	1.07	0.0250	mg/kg	1	2003036	01/17/20	01/17/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		86.0 %	50-1	50	2003036	01/17/20	01/17/20	EPA 8021B	-
Nonhalogenated Organics by 8015 - DRO	O/ORO								
Diesel Range Organics (C10-C28)	4420	25.0	mg/kg	1	2003035	01/17/20	01/17/20	EPA 8015D	T16
Oil Range Organics (C28-C40)	314	50.0	mg/kg	1	2003035	01/17/20	01/17/20	EPA 8015D	T16
Surrogate: n-Nonane		117 %	50-2	00	2003035	01/17/20	01/17/20	EPA 8015D	<u>-</u>
Nonhalogenated Organics by 8015 - GRO)								
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2003036	01/17/20	01/17/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.8 %	50-1.	50	2003036	01/17/20	01/17/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	521	40.0	mg/kg	2	2003037	01/17/20	01/17/20	EPA 300.0/9056A	

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5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



Project Name:

Lacama 20 State Com #602H

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 01/22/20 12:20

S-1.0.5 P001052-02 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2003036	01/17/20	01/17/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2003036	01/17/20	01/17/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2003036	01/17/20	01/17/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2003036	01/17/20	01/17/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2003036	01/17/20	01/17/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2003036	01/17/20	01/17/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		97.5 %	50-1	150	2003036	01/17/20	01/17/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	27.9	25.0	mg/kg	1	2003035	01/17/20	01/21/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2003035	01/17/20	01/21/20	EPA 8015D	
Surrogate: n-Nonane		85.1 %	50-2	200	2003035	01/17/20	01/21/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2003036	01/17/20	01/17/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.5 %	50-1	150	2003036	01/17/20	01/17/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	43.0	20.0	mg/kg	1	2003037	01/17/20	01/17/20	EPA 300.0/9056A	

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Project Name:

Lacama 20 State Com #602H

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 01/22/20 12:20

S-1.1 P001052-03 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2003036	01/17/20	01/17/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2003036	01/17/20	01/17/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	,1	2003036	01/17/20	01/17/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2003036	01/17/20	01/17/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2003036	01/17/20	01/17/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2003036	01/17/20	01/17/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		97.9 %	50-	-150	2003036	01/17/20	01/17/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/ORO)								
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg	1	2003035	01/17/20	01/17/20	EPA 8015D	
Oil Range Organics (C28-C40)	ND	50.0	mg/kg	1	2003035	01/17/20	01/17/20	EPA 8015D	
Surrogate: n-Nonane		93.3 %	50-	-200	2003035	01/17/20	01/17/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2003036	01/17/20	01/17/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.4 %	50-	-150	2003036	01/17/20	01/17/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	ND	20.0	mg/kg	1	2003037	01/17/20	01/17/20	EPA 300.0/9056A	

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Ph (505) 632-0615 Fx (505) 632-1865



Project Name:

Lacama 20 State Com #602H

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 01/22/20 12:20

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2003036 - Purge and Trap EPA 5030A			on consent.		. 20 2 40000				0. 1998 00-0	THE PERSON A
Blank (2003036-BLK1)				Prepared &	Analyzed:	01/17/20 1				
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	m.							
p,m-Xylene	ND	0.0500	и							
o-Xylene	ND	0.0250	n.							
Total Xylenes	ND	0.0250	n							
Surrogate: 4-Bromochlorobenzene-PID	7.82		"	8.00		97.8	50-150			
LCS (2003036-BS1)				Prepared &	: Analyzed:	01/17/20 1				
Benzene	5.66	0.0250	mg/kg	5.00		113	70-130			
Toluene	5.75	0.0250	"	5.00		115	70-130			
Ethylbenzene	5.68	0.0250		5.00		114	70-130			
p,m-Xylene	11.3	0.0500	"	10.0		113	70-130			
o-Xylene	5.65	0.0250	"	5.00		113	70-130			
Total Xylenes	17.0	0.0250	n	15.0		113	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.96		"	8.00		99.5	50-150			
Matrix Spike (2003036-MS1)	Sou	rce: P001052-	01	Prepared &	: Analyzed:	01/17/20 1				
Benzene	5.36	0.0250	mg/kg	5.00	0.273	102	54.3-133			
Toluene	6.39	0.0250	"	5.00	1.20	104	61.4-130			
Ethylbenzene	5.27	0.0250	u	5.00	0.152	102	61.4-133			
p,m-Xylene	11.0	0.0500		10.0	0.865	101	63.3-131			
o-Xylene	5.17	0.0250	n	5.00	0.205	99.4	63,3-131			
Total Xylenes	16.2	0.0250	п	15.0	1.07	101	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	6.75		n	8.00		84.4	50-150			
Matrix Spike Dup (2003036-MSD1)	Sou	rce: P001052-	01	Prepared &	Analyzed:	01/17/20 1				
Benzene	5,26	0.0250	mg/kg	5.00	0.273	99.8	54,3-133	1.78	20	
Toluene	6.19	0.0250	",	5.00	1.20	99.9	61.4-130	3.16	20	
Ethylbenzene	5.19	0.0250	п	5.00	0.152	101	61.4-133	1.52	20	
p,m-Xylene	10.8	0.0500	и	10.0	0.865	98.9	63.3-131	2.24	20	
o-Xylene	5.09	0.0250		5.00	0.205	97.7	63.3-131	1.64	20	
Total Xylenes	15.8	0.0250		15.0	1.07	98.5	63.3-131	2.05	20	
Surrogate: 4-Bromochlorobenzene-PID	6.79		"	8.00		84.8	50-150			

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Ph (505) 632-0615 Fx (505) 632-1865



Project Name:

Lacama 20 State Com #602H

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 01/22/20 12:20

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2003035 - DRO Extraction EPA 3570										
Blank (2003035-BLK1)				Prepared: (01/17/20 0 A	Analyzed: 0	1/17/20 1			
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	u							
Surrogate: n-Nonane	47.0		,,,	50.0		94.0	50-200			
LCS (2003035-BS1)				Prepared: ()1/17/20 0 <i>A</i>	Analyzed: 0	1/17/20 1			
Diesel Range Organics (C10-C28)	467	25.0	mg/kg	500		93.5	38-132			
Surrogate: n-Nonane	49.2		11.	50.0		98.4	50-200			
Matrix Spike (2003035-MS1)	Sour	ce: P001047-	01	Prepared: ()1/17/20 0 A	Analyzed: 0	1/17/20 1			
Diesel Range Organics (C10-C28)	509	25.0	mg/kg	500	ND	102	38-132			
Surrogate: n-Nonane	50.3		"	50.0		101	50-200			
Matrix Spike Dup (2003035-MSD1)	Sour	ce: P001047-	01	Prepared: (01/17/20 0 A	Analyzed: 0	1/17/20 1			
Diesel Range Organics (C10-C28)	509	25.0	mg/kg	500	ND	102	38-132	0.0588	20	
Surrogate: n-Nonane	50.1		"	50.0		100	50-200			

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Ph (505) 632-0615 Fx (505) 632-1865



Project Name:

Lacama 20 State Com #602H

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 01/22/20 12:20

Nonhalogenated Organics by 8015 - GRO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2003036 - Purge and Trap EPA 5030A										
Blank (2003036-BLK1)				Prepared &	: Analyzed:	01/17/20 1				
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.68		"	8.00		83.5	50-150			
LCS (2003036-BS2)				Prepared &	: Analyzed:	01/17/20 1				
Gasoline Range Organics (C6-C10)	45.7	20.0	mg/kg	50.0		91.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.94		"	8.00		86.7	50-150			
Matrix Spike (2003036-MS2)	Sour	ce: P001052-	01	Prepared: 0	1/17/20 1 A	Analyzed: 0	1/17/20 2			
Gasoline Range Organics (C6-C10)	62.5	20.0	mg/kg	50.0	ND	125	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.78		,,	8.00		84.7	50-150			
Matrix Spike Dup (2003036-MSD2)	Sour	ce: P001052-	01	Prepared: 0	1/17/20 1 A	Analyzed: 0	1/17/20 2			
Gasoline Range Organics (C6-C10)	60.7	20.0	mg/kg	50.0	ND	121	70-130	2.99	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.81		n	8.00		85.1	50-150			

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5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865

Labadmin@envirotech-inc.com



Project Name:

Lacama 20 State Com #602H

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 01/22/20 12:20

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2003037 - Anion Extraction EPA 300.0/9	056A									
Blank (2003037-BLK1)				Prepared &	Analyzed:	01/17/20 1				
Chloride	ND	20.0	mg/kg							
LCS (2003037-BS1)				Prepared &	Analyzed:	01/17/20 1				
Chloride	249	20.0	mg/kg	250		99.5	90-110			
Matrix Spike (2003037-MS1)	Source	e: P001047-0)1	Prepared &	Analyzed:	01/17/20 1				
Chloride	252	20.0	mg/kg	250	ND	101	80-120			
Matrix Spike Dup (2003037-MSD1)	Source	e: P001047-0)1	Prepared &	Analyzed:	01/17/20 1				
Chloride	251	20.0	mg/kg	250	ND	100	80-120	0.299	20	

QC Summary Report

Comment:

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

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5796 Highway 64, Farmington, NM 87401

Ph (505) 632-0615 Fx (505) 632-1865



Project Name:

Lacama 20 State Com #602H

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher

Reported: 01/22/20 12:20

Notes and Definitions

The sample chromatographic pattern does not resemble the typical fuel standard used for quantitation.

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

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

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

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Page 11 of 11 NM CO UT AZ SDWA Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days. Н Remarks BGDOC BGDOC BGDOC State **EPA Program** ŏ CWA Н × 13 Page_ RCRA Lab Use Only Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA N/K 10 30 TAT Analysis and Method 19 py - coul Received on ice: T1 AVG Temp °C Chloride 300.0 × × × Lab Use Only Metals 6010 **NOC PA 8560** 9:30 Poolosa BTEX by 8021 × × × Lab WO# еко/око р\ вота × × × 16/20 × рко/око ру вот5 × × Number Lab 3 N Date (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or Chain of Custody Email: robert asher@eogresources.com City, State, Zip Artesia, NM 88210 Report Attention Address: 104 South 4th Street Report due by: 1/23/2020 Received by: (Signature) Attention: Robert Asher Phone: (575) 748-4217 Received by: (Signature) Miles 3:47 PM time of collection is considered fraud and may be grounds for legal action. Sampled by: Time Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Sample ID S-1.0.5 1/14/2020 S-1.S 5-1.1 Email: robert asher@eogresources.com Date Project: Lacama 20 State Com #602H Containers S City, State, Zip Artesia, NM 88210 Project Manager: Robert Asher Address: 104 South 4th Street Client: EOG Resources, Inc. Matrix S S ഗ Phone: (575) 748-4217 Additional Instructions: Relinquished by: (Signature) Relinquished by: (Signature) Project Information Sampled 1/14/20 1/14/20 1/14/20 Date PO# 205632 2:24 PM 2:20 PM 2:29 PM Sampled

Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the above samples is applicable only to the laboratory is limited to the amount paid for on the report. 5796 US Highway 64, Farmington, NM 87401 24 hour Emergency Response Phone (800) 362-1879 envirotech Analytical Laboratory

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

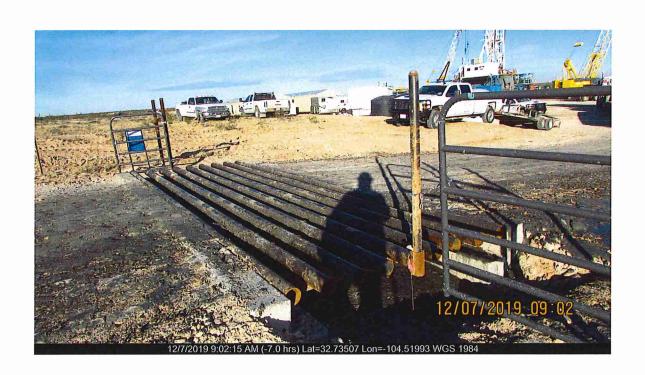
labadmin@envirotech-inc.com



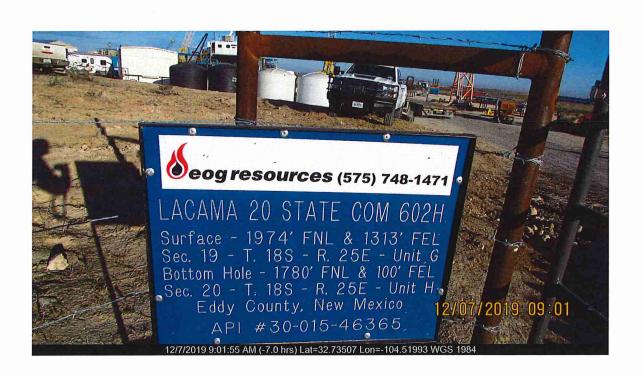
Appendix 7

Photos











Appendix 8

Form C-141 Release Notification District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

Responsible Party

Contact Name

EOG Resources, Inc.

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

OGRID

Contact Telephone

7377

Robert Asher				575-748-4		
Contact email				Incident #	(assigned by OCD)	
bob_asher@			120000000000000000000000000000000000000			7/20/4
Contact mail 104 S. 4 th	ing address					
			Location	n of R	elease S	ource
atitude 22.7	2501				Longitude	104 52022
atitude 32.7	3391		(NAD 83 in a		rees to 5 decir	-104.52032 nal places)
Site Name: L	a Cama 20 S	State Com #602H			Site Type:	Drilling Pad
Date Release			and the second s		API# 30-0	
Date Refease	Discovered	. 12/0/2019			API# 30-0	13-40303
Unit Letter	Section	Township	Range		Cour	nty
G	19	18S	25E	Eddy		
		<u></u>				00000000000000000000000000000000000000
☐ Crude Oil		l(s) Released (Select a Volume Release		ch calculatio	ons or specific	justification for the volumes provided below) Volume Recovered (bbls)
Produced	Water	Volume Released (bbls)			•	Volume Recovered (bbls)
		I .	tion of dissolved >10.000 mg/l?	chloride	in the	Yes No
produced water >10,000 mg/l? Condensate Volume Released (bbls)				Volume Recovered (bbls)		
Natural G	as	Volume Release	ed (Mcf)			Volume Recovered (Mcf)
Other (Fre	shwater	Volume/Weight Released (8 yds3)			Volume/Weight Recovered (7 yds3)	
Drill Cuttings)						
Cause of Rele		J			-	
Roll-off conta	iner with fr	eshwater drill cutt	tings left the loca	tion. Who	en the vehic	ele crossed the cattle guard the rear gate opened
allowing 8 Cu cuttings.	idic yards of	cuttings to dump	on the access ro	ad entran	ce and cattle	e guard. Equipment was utilized to scrape up the
<i>Q</i>						



Received by OCD: 9/16/2020 1:07:41 PM

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?	If YES, for what reason(s) does the response	nsible party consider this a major release?		
☐ Yes 🛛 No				
If YES, was immediate no	l otice given to the OCD? By whom? To w	hom? When and by what means (phone, email, etc)?		
11 1 22 × 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ones ground and a car all manners as in	ment in the state of the mount (phone) email, etc).		
	Initial R	esponse		
The responsible p	party must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury		
The source of the rele	ease has been stopped.			
☐ The impacted area has	s been secured to protect human health and	the environment.		
Released materials ha	we been contained via the use of berms or	likes, absorbent pads, or other containment devices.		
	ecoverable materials have been removed an	d 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 infor	mation given above is true and complete to the	best of my knowledge and understand that pursuant to OCD rules and		
regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name: Robert Ashe	er,	Title: Environmental Supervisor		
G	sea ()el .	-		
Signature:		Date: <u>2-4-2020</u>		
email: bob_asher@eogreso	ources.com	Telephone: <u>575-748-4217</u>		
OCD Only				
Received by:		Date:		



Appendix 9

Form C-141
Site Assessment/Characterization/Remediation Plan



State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	135'	_ (ft bgs)		
Did this release impact groundwater or surface water?				
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes [⊠ No		
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes [⊠ No		
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes [⊠ No		
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes [⊠ No		
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes [⊠ No		
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes 🏻	☑ No		
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes 🏻	☑ No		
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes 🏻	☑ No		
Are the lateral extents of the release overlying an unstable area such as karst geology?				
Are the lateral extents of the release within a 100-year floodplain?				
Did the release impact areas not on an exploration, development, production, or storage site?				
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.				
Characterization Report Checklist: Each of the following items must be included in the report.				
Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.Field data				
Data table of soil contaminant concentration data Depth to water determination				
Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release Boring or excavation logs				
Photographs including date and GIS information Topographic/Aerial maps				
Laboratory data including chain of custody				

The site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation of the release, the report must include a proposed remediation. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of \$\overline{B}\$.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.



State of New Mexico Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name: Robert Asher	Title: Environmental Supervisor			
Signature:	Date: <u>6-3-2020</u>			
email: bob_asher@eogresources.com	Telephone: <u>575-748-4217</u>			
OCD Only				
Received by:	Date:			



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Remediation Plan

Remediation Plan Checklist: Each of the following items must be included in the plan.				
 ☑ Detailed description of proposed remediation technique ☑ Scaled sitemap with GPS coordinates showing delineation points ☑ Estimated volume of material to be remediated ☑ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC ☑ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required) 				
Deferral Requests Only: Each of the following items must be con	firmed as part of any request for deferral of remediation.			
Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.				
Extents of contamination must be fully delineated.				
Contamination does not cause an imminent risk to human health	, the environment, or groundwater.			
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.				
Printed Name: Robert Asher	Title: Environmental Supervisor			
Signature:	Date: <u>6-3-2020</u>			
email: bob_asher@eogresources.com	Telephone: <u>575-748-4217</u>			
OCD Only				
Received by:	Date:			
Approved Approved with Attached Conditions of	Approval			
Signature:	Date:			