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

Table of Contents

I. Location..... 3

II. Background..... 3

III. Surface and Depth to Ground Water..... 3

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

V. Site Delineation Status..... 4

VI. Remediation Plan..... 5

VII. Site Closure..... 5

Appendix 1: Site/Topo/Impacted Area Map

Appendix 2: Surface and Depth to ground water

Appendix 3: Wellhead protection area

Appendix 4: Distance to nearest significant watercourse

Appendix 5: Field Data/Sample Data

Appendix 6: Laboratory Data and COC

Appendix 7: Photos

Appendix 8: Form C-141 Release Notification

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

I. Location

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 Cl B	20,000 mg/kg
	TPH (GRO+DRO+MRO)	EPA SW-846 Method 8015M	2,500 mg/kg
	GRO+DRO	EPA SW-846 Method 8015M	1,000 mg/kg
	BTEX	EPA SW-846 Method 8021B or 8260B	50 mg/kg
	Benzene	EPA SW-846 Method 8021B or 8260B	10 mg/kg

V. Site Delineation Status

Initial sampling was conducted on 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 ft^2.

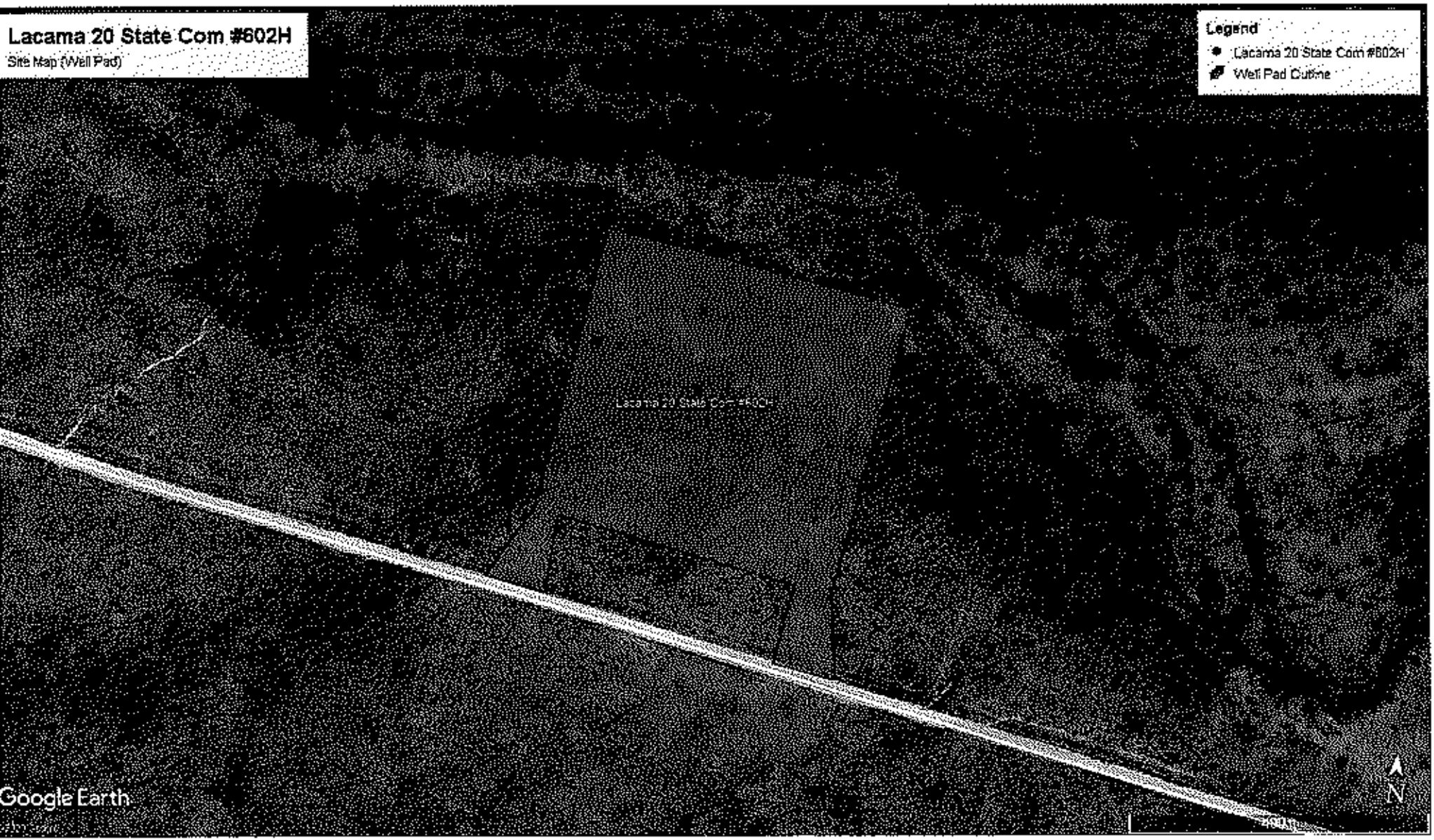
If all composite and grab sample concentrations are less than or equal to the parameters listed in Table 1, then the responsible party will proceed to backfill the excavated area(s) with approximately 6.5 cubic yards of clean/like backfill material.

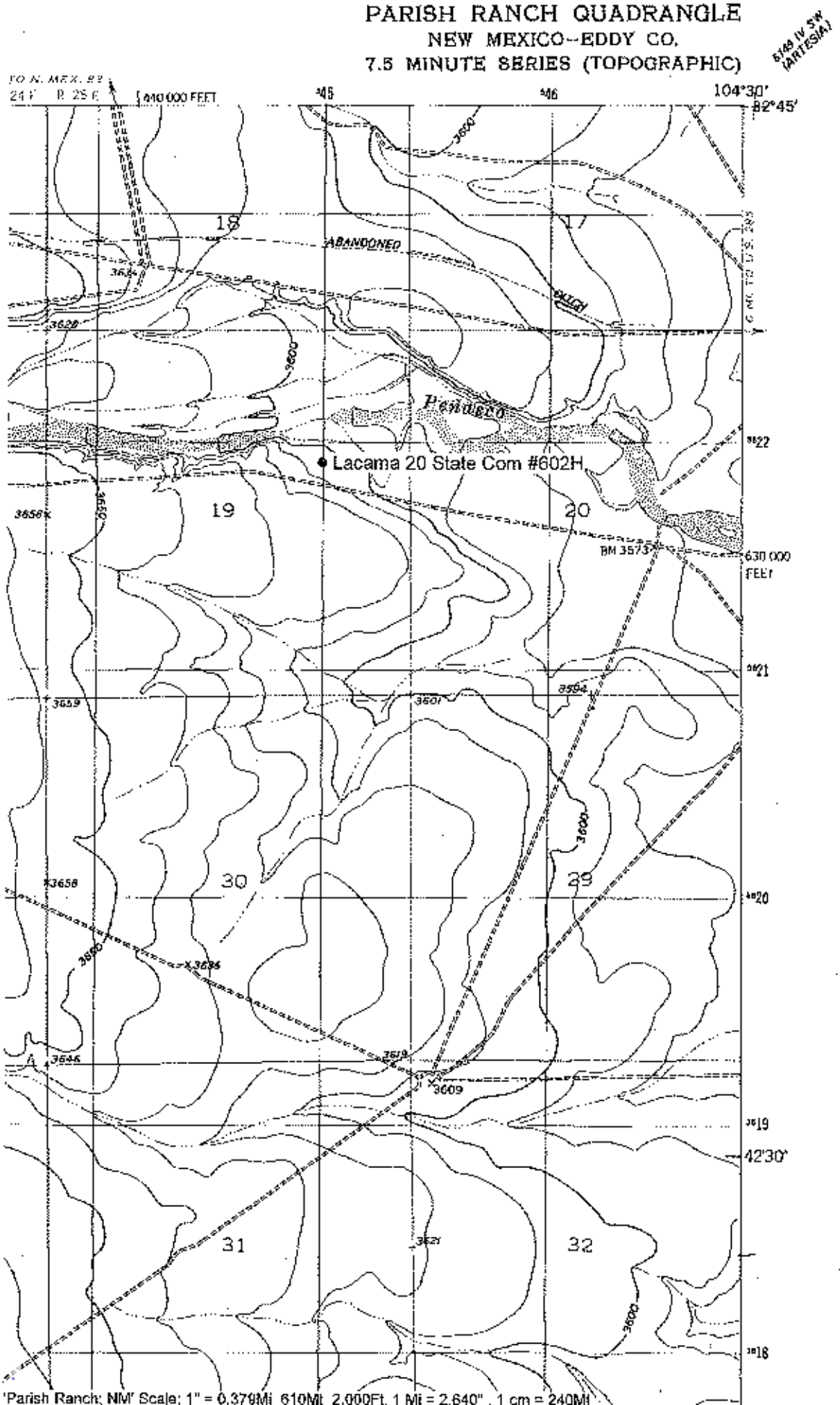
VII. Site Closure

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

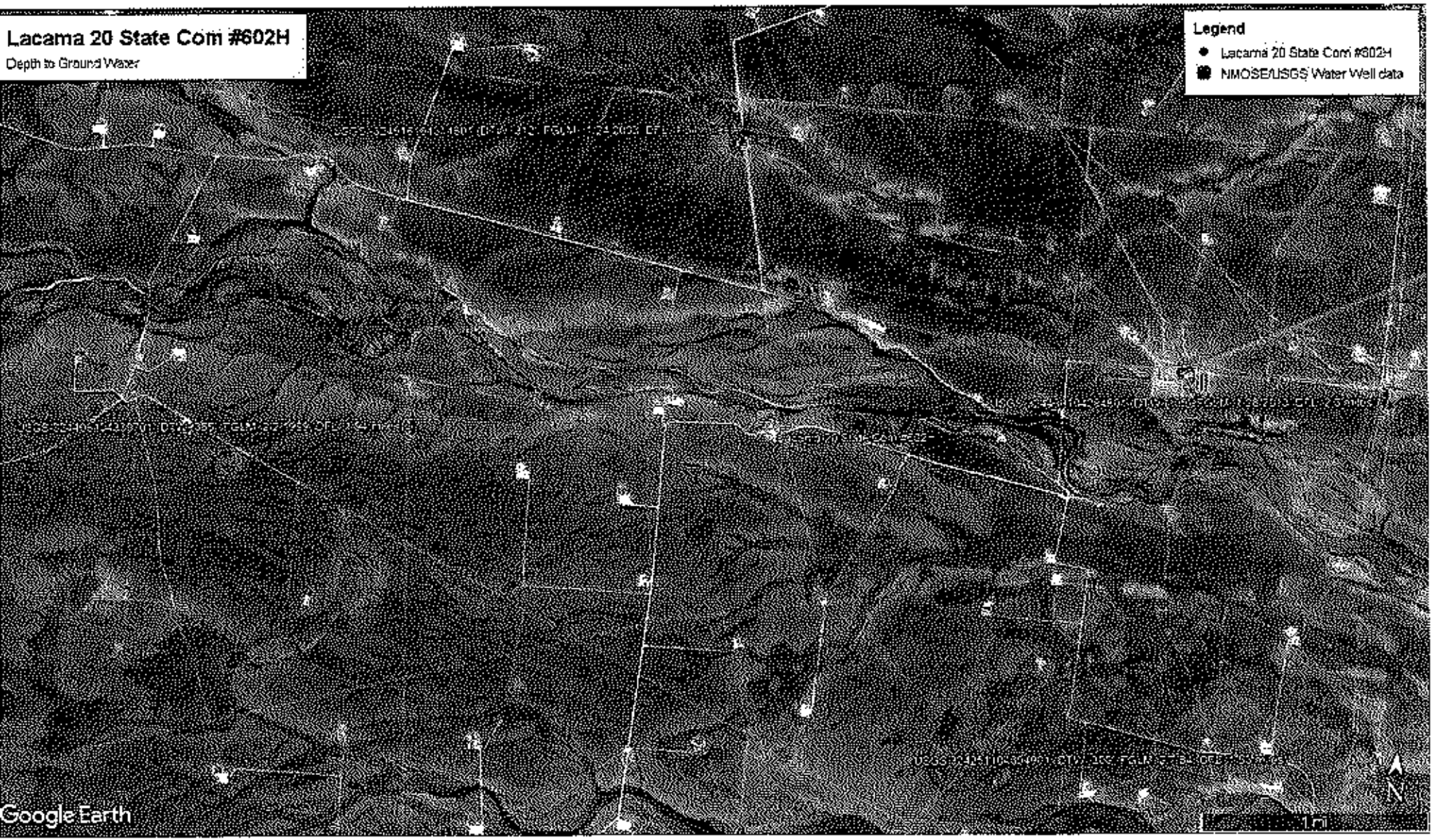



PARISH RANCH QUADRANGLE
NEW MEXICO--EDDY CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)
5148 IV SW
(ARTESIA)
104°30'
32°45'
640 000 FEET
18
17
ABANDONED
HIGH
Pendaco
Lacama 20 State Com #602H
19
20
BM 3573
630 000 FEET
30
29
31
32
42'30"
'Parish Ranch, NM' Scale: 1" = 0.379Mi, 610Mt, 2,000Ft, 1 Mi = 2.640", 1 cm = 240Mt

Lacama 20 State Com #602H
Release/Excavation & Sample Area
Legend
Measure
Release/Excavation Area
Untitled Polygon
70 ft
N
Google Earth

Appendix 2

Surface and Depth to Ground Water



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USGS 324516104314601 18S.25E.18.114131

Available data for this site SUMMARY OF ALL AVAILABLE DATA | GO

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 measurements	1984-02-06	2003-01-24	8
Revisions	Unavailable (site:0) (timeseries:0)		

OPERATION:

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

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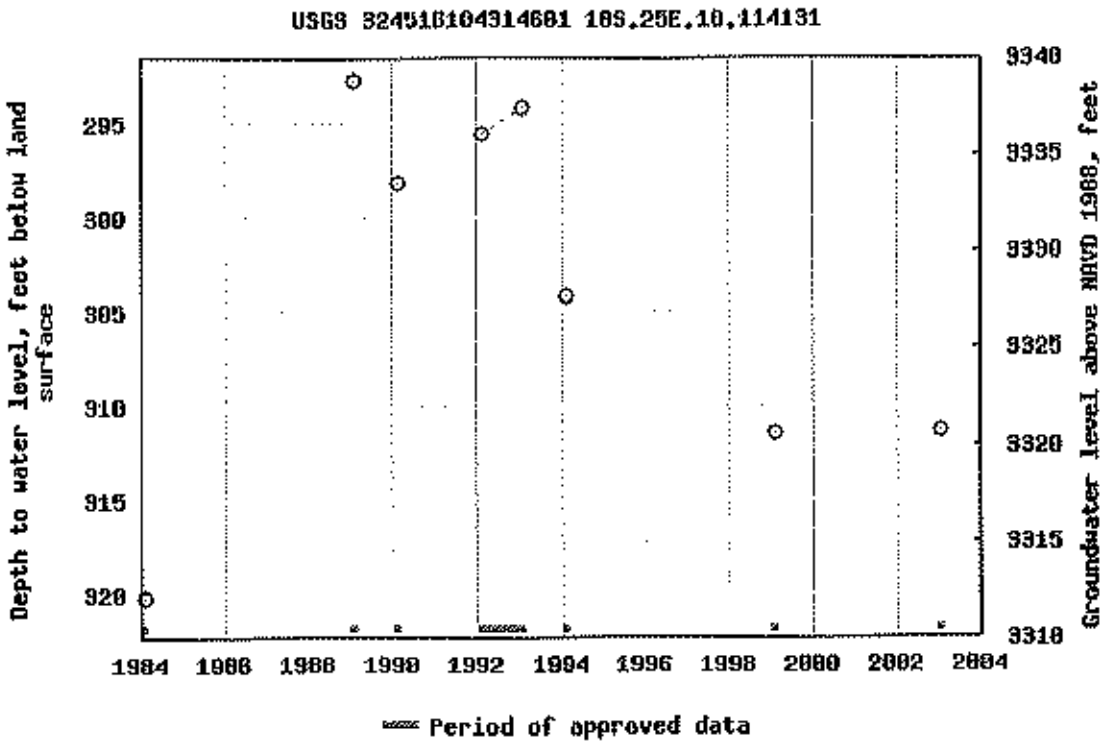
Available data for this site Groundwater: Field measurements | GO

Eddy County, New Mexico
Hydrologic Unit Code 13060010
Latitude 32°45'16", Longitude 104°31'46" NAD27
Land-surface elevation 3,632 feet above NAVD88
The depth of the well is 305.0 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



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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 aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1984-02-06	1999-02-02	6
Revisions	Unavailable (site:0) (timeseries:0)		

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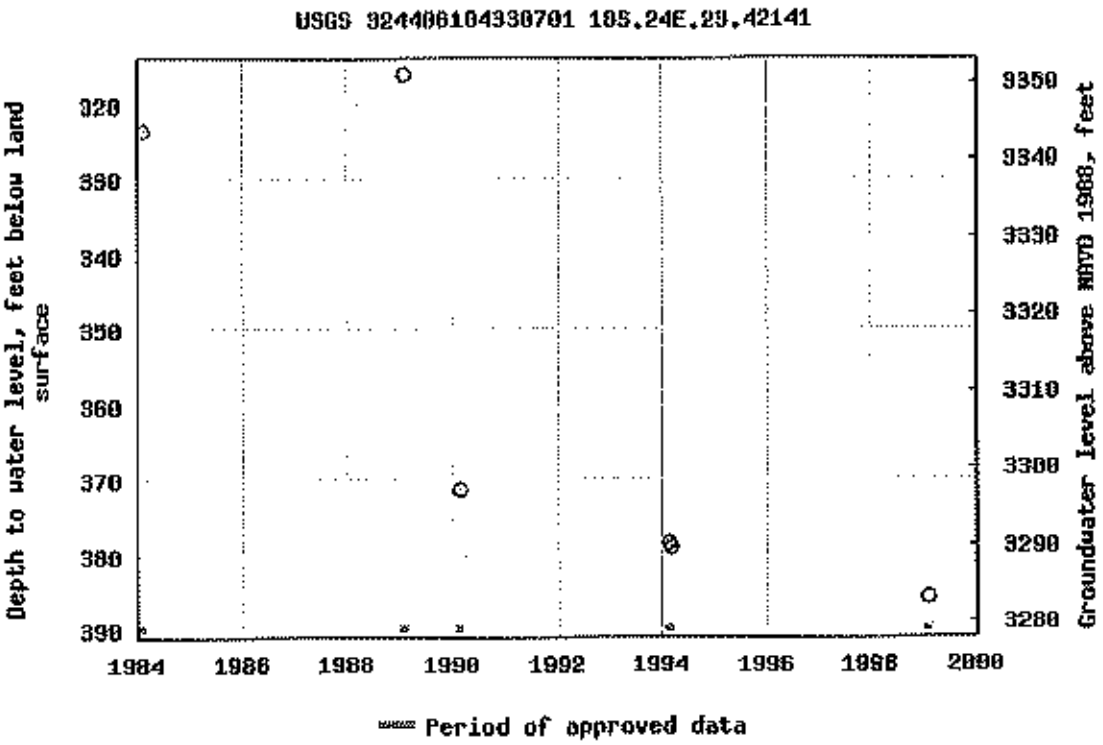
Eddy County, New Mexico
Hydrologic Unit Code 13060010
Latitude 32°44'06", Longitude 104°33'07" NAD27
Land-surface elevation 3,668 feet above NAVD88
The depth of the well is 475 feet below land surface.
This well is completed in the San Andres Limestone (313SADR) local aquifer.

Output formats

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



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USGS 324430104284801 18S.25E.22.111314

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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 aquifer

AVAILABLE DATA:

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

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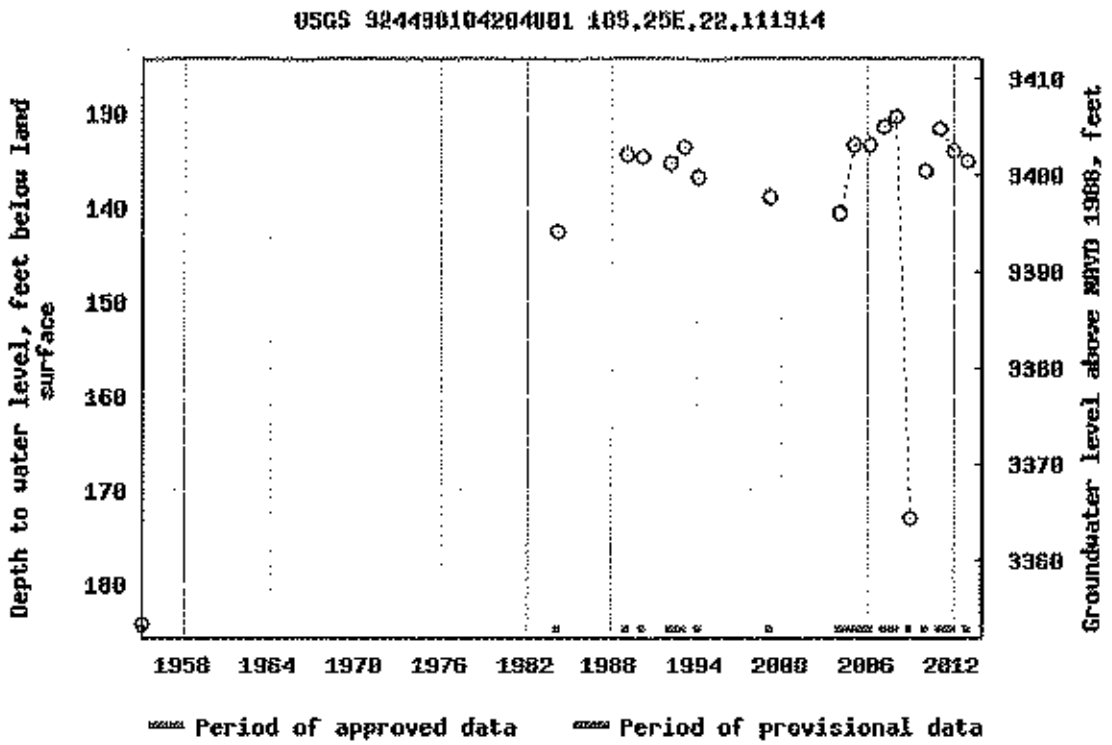
Available data for this site Groundwater: Field measurements | GO

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



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USGS 324251104304901 18S.25E.32.11114

Available data for this site: SUMMARY OF ALL AVAILABLE DATA | GO

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 aquifer

AVAILABLE DATA:

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

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Minimum number of levels = 1

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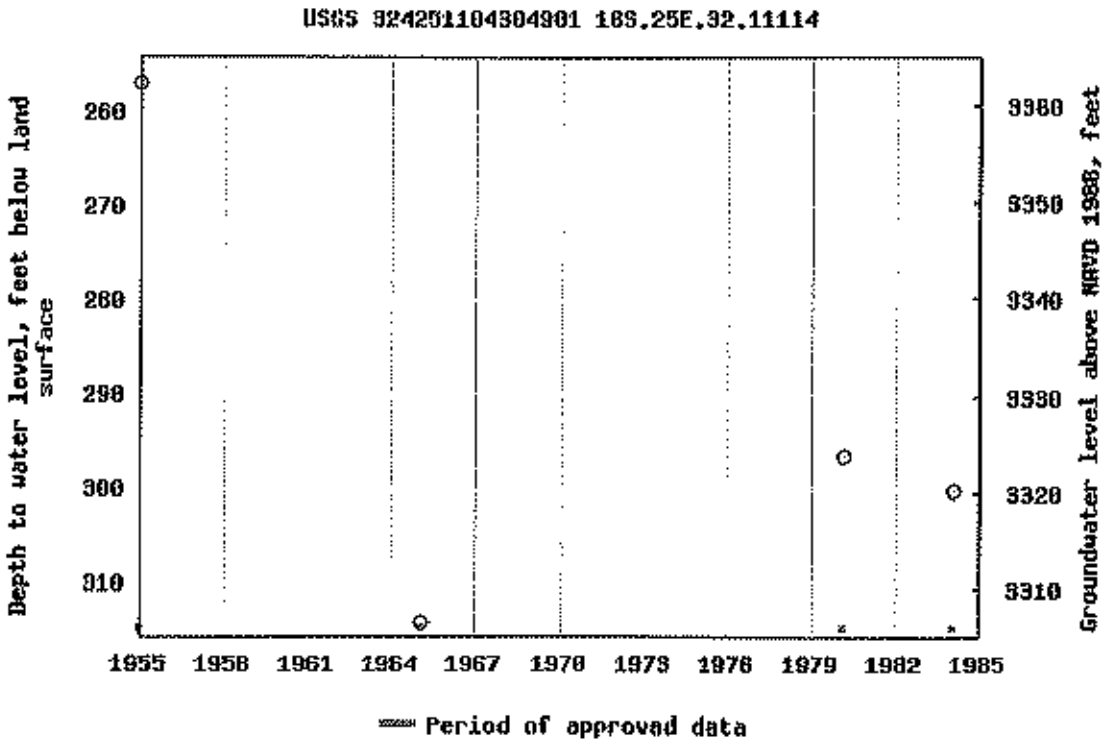
USGS 324251104304901 18S.25E.32.11114

Available data for this site Groundwater: Field measurements | GO

Eddy County, New Mexico
Hydrologic Unit Code 13060010
Latitude 32°42'51", Longitude 104°30'49" NAD27
Land-surface elevation 3,620 feet above NAVD88
The depth of the well is 425 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



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

Page Contact Information: USGS Water Data Support Team
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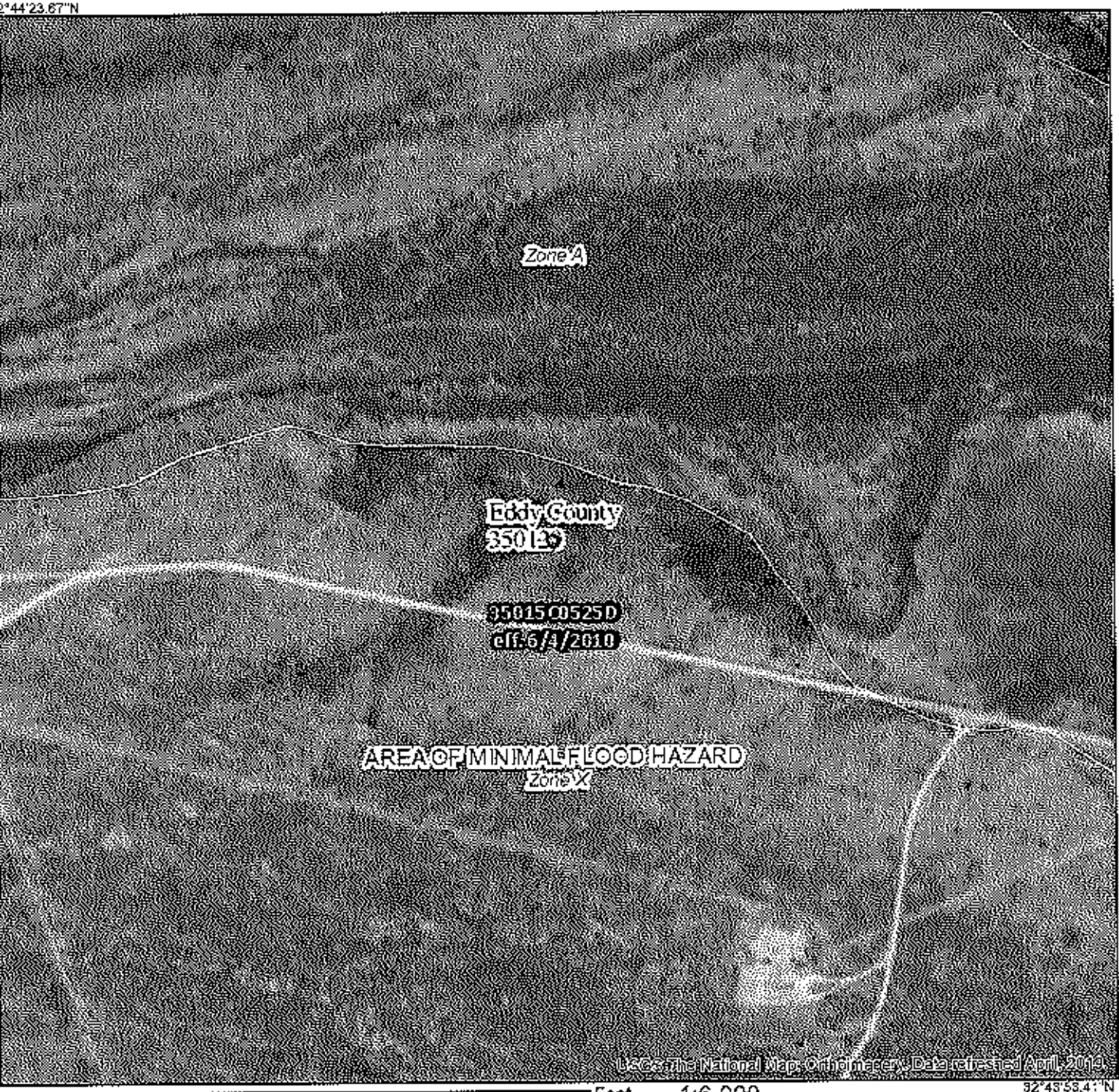
National Flood Hazard Layer FIRMette

FEMA



Legend

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

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) Zone A, V, A99
- With BFE or Depth Zone AE, AO, AH, VE, AR
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
- Future Conditions 1% Annual Chance Flood Hazard Zone X
- Area with Reduced Flood Risk due to Levee. See Notes. Zone X
- Area with Flood Risk due to Levee Zone D

OTHER AREAS
- NO SCREEN Area of Minimal Flood Hazard Zone X
- Effective LOMRs
- Area of Undetermined Flood Hazard Zone

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 Cross Sections with 1% Annual Chance
- 17.5 Water Surface Elevation
- Coastal Transect
- Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

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 accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 6/3/2020 at 10:56:41 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

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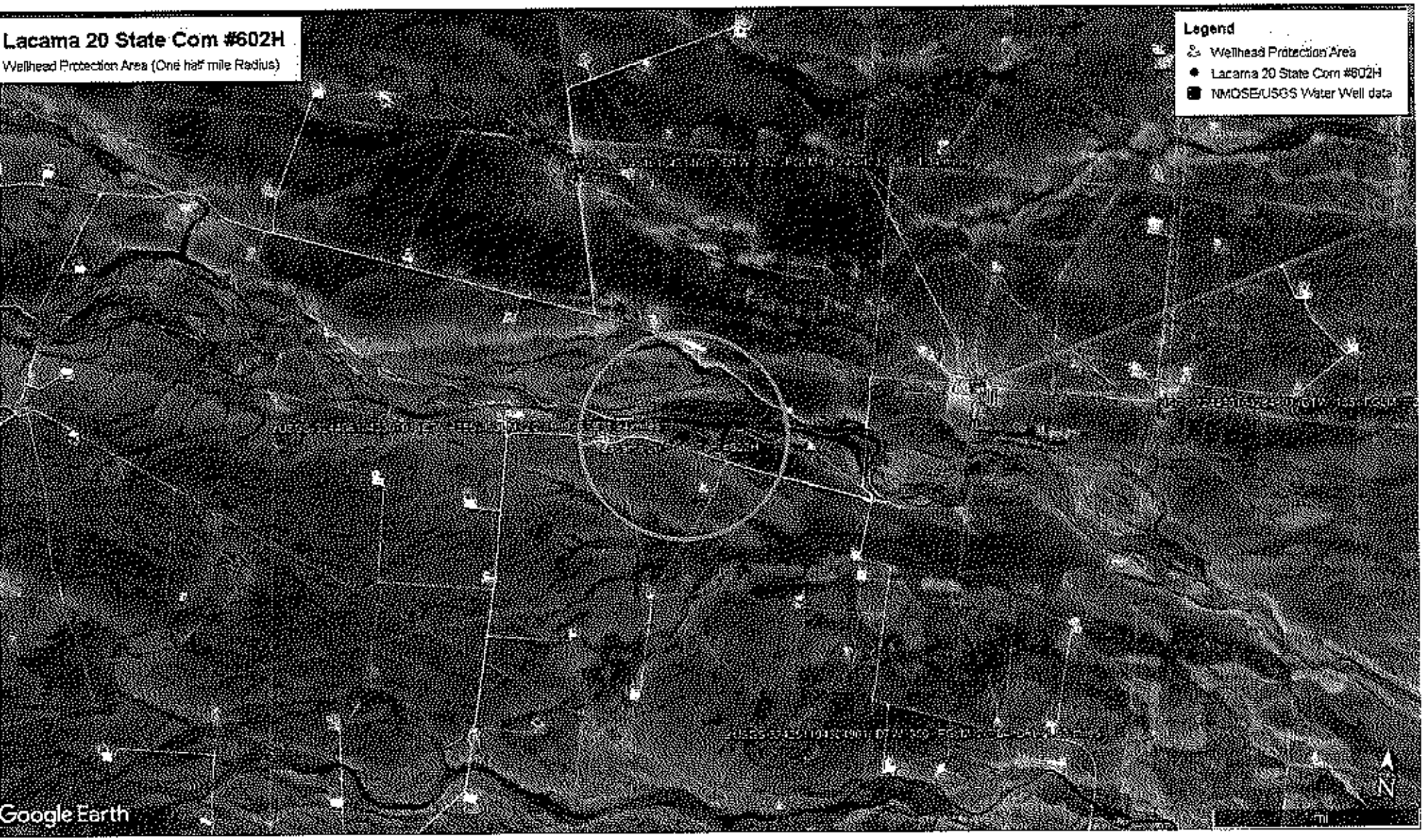
Appendix 3

Wellhead Protection Area

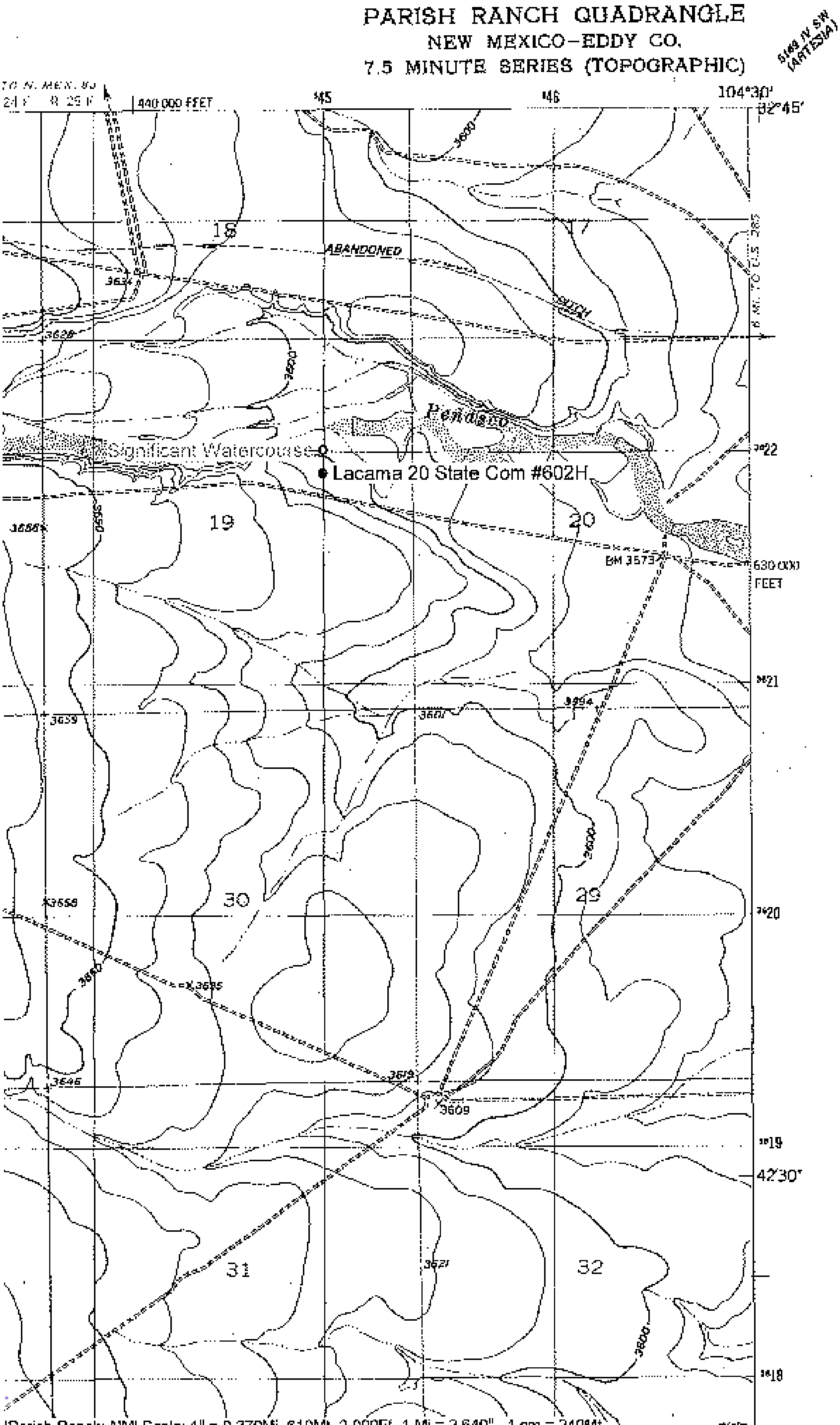
Lacama 20 State Com #602H
Wellhead Protection Area (One half mile Radius)
Legend
Wellhead Protection Area
Lacama 20 State Com #602H
NMOSE/USGS Water Well data
N
Google Earth
3000 ft
38



Appendix 4

Distance to Nearest Significant Watercourse

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



Lacama 20 State Com #602H
Distance to Significant Watercourse (303')
Legend
Lacama 20 State Com #602H
NMOSE/USGS Water Well data
Distance to Significant Water Course (303')
Lacama 20 State Com #602H
N
700 ft
Google Earth

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	621	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

NMOCD Table I Criteria

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

Appendix 6

Laboratory Data and COC

envirotech
Analytical Laboratory

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 Hinchman Date: 1/22/20

Walter Hinchman, Laboratory Director

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

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Analytical Laboratory

EOG Resources Inc. - Carlsbad	Project Name:	Lacama 20 State Com #602H	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Robert Asher	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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Analytical Laboratory

EOG Resources Inc. - Carlsbad	Project Name:	Lucania 20 State Com #602H	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Robert Ashe	01/22/20 12:20

S-1.S
P001052-01 (Solid)

Analyte	Result	Reporting 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 %*	*50-150*		*2003036*	*01/17/20*	*01/17/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
Diesel Range Organics (C10-C28)	4420	25.0	mg/kg	5	2003035	01/17/20	01/17/20	EPA 8015D	T16
Oil Range Organics (C28-C40)	314	50.0	mg/kg	5	2003035	01/17/20	01/17/20	EPA 8015D	T16
Surrogate: n-Nonane		*117 %*	*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		*84.8 %*	*50-150*		*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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Analytical Laboratory

EOG Resources Inc. - Carlsbad	Project Name:	Lacama 20 State Com #603H	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Robert Asher	01/22/20 12:20

S-1.0.5
P001052-02 (Solid)

Analyte	Result	Reporting 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 %*	*50-150*		*2003036*	*01/17/20*	*01/17/20*	*EPA 8021B*	
Nonhalogenated Organics by 8015 - DRO/ORO									
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 %*	*50-200*		*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 %*	*50-150*		*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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Analytical Laboratory

EOG Resources Inc. - Carlsbad	Project Name:	Lacuna 20 State Com #602H	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Robert Asher	01/22/20 12:20

S-1.1
P001052-03 (Solid)

Analyte	Result	Reporting 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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Analytical Laboratory

EOG Resources Inc. - Carlsbad	Project Name:	Lacana 20 State Com #602H	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Robert Asher	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										
Blank (2003036-BLK1)				Prepared & Analyzed: 01/17/20 1						
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	"							
p,m-Xylene	ND	0.0500	"							
o-Xylene	ND	0.0250	"							
Total Xylenes	ND	0.0250	"							
Surrogate: 1-Bromochlorobenzene-PID	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	"	15.0		113	70-130			
Surrogate: 4-Bromochlorobenzene-PID	7.96		"	8.00		99.5	50-150			
Matrix Spike (2003036-MS1)	Source: P001052-01			Prepared & Analyzed: 01/17/20 1						
Benzene	5.36	0.0250	mg/kg	5.00	0.273	102	54.3-133			
Toluene	6.19	0.0250	"	5.00	1.20	104	61.4-130			
Ethylbenzene	5.27	0.0250	"	5.00	0.152	102	61.4-133			
p,m-Xylene	11.0	0.0500	"	10.0	0.865	102	63.3-131			
o-Xylene	5.17	0.0250	"	5.00	0.205	99.4	63.3-131			
Total Xylenes	16.2	0.0250	"	15.0	1.07	101	63.3-131			
Surrogate: 4-Bromochlorobenzene-PID	6.75		"	8.00		84.4	50-150			
Matrix Spike Dup (2003036-MSD1)	Source: P001052-01			Prepared & Analyzed: 01/17/20 1						
Benzene	5.76	0.0250	mg/kg	5.00	0.273	99.6	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	"	5.00	0.152	201	61.4-133	1.52	20	
p,m-Xylene	10.8	0.0500	"	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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EOG Resources Inc. - Carlsbad	Project Name:	Lucama 20 State Com #602H	
104 South 4th Street	Project Number:	19044-0001	Reported:
Artesia NM, 88210	Project Manager:	Robert Asher	01/22/20 12:20

Nonhalogenated Organics by 8015 - DRO/ORO - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2003035 - DRO Extraction EPA 3570										
Blank (2003035-BLK1)				Prepared: 01/17/20 0 Analyzed: 01/17/20 1						
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0	"							
Surrogate: n-Nonane	*47.0*		*" *	*50.0*		*94.0*	*50-200*			
LCS (2003035-BS1)				Prepared: 01/17/20 0 Analyzed: 01/17/20 1						
Diesel Range Organics (C10-C28)	467	25.0	mg/kg	500		93.5	38-132			
Surrogate: n-Nonane	*49.1*		*" *	*50.0*		*98.1*	*50-200*			
Matrix Spike (2003035-MS1)		Source: P001047-01		Prepared: 01/17/20 0 Analyzed: 01/17/20 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)		Source: P001047-01		Prepared: 01/17/20 0 Analyzed: 01/17/20 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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EOG Resources Inc. - Carlsbad	Project Name:	Lacama 20 State Com #602H	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Robert Asher	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)		**Source: P001052-01**		Prepared: 01/17/20 1 Analyzed: 01/17/20 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)		**Source: P001052-01**		Prepared: 01/17/20 1 Analyzed: 01/17/20 2						
Gasoline Range Organics (C6-C10)	60.7	20.0	mg/kg	50.0	ND	121	70-130	2.99	30	
Surrogate: 1-Chloro-4-fluorobenzene-FID	*6.81*		"	*8.00*		*85.1*	*50-150*			

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Analytical Laboratory

EOG Resources Inc. - Carlsbad	Project Name:	Lacuna 20 State Com #602H	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Robert Asher	01/22/20 12:20

Anions by 300.0/9056A - Quality Control

Envirotech Analytical Laboratory

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2003037 - Anion Extraction EPA 300.0/9056A										
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: P001047-01			Prepared & Analyzed: 01/17/20 1						
Chloride	252	20.0	mg/kg	250	ND	101	90-120			
Matrix Spike Dup (2003037-MSD1)	Source: P001047-01			Prepared & Analyzed: 01/17/20 1						
Chloride	251	20.0	mg/kg	250	ND	100	90-120	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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EOG Resources Inc. - Carlsbad	Project Name:	Lacama 20 State Com #603H	
104 South 4th Street	Project Number:	19034-0001	Reported:
Artesia NM, 88210	Project Manager:	Robert Asher	01/22/20 12:20

Notes and Definitions

T16	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.

Project Information | Chain of Custody | Page 1 of 1

Client: EOG Resources, Inc.	Report Attention
Project: Lacama 20 State Com #602H	Report due by: 1/23/2020
Project Manager: Robert Asher	Attention: Robert Asher
Address: 104 South 4th Street	Address: 104 South 4th Street
City, State, Zip Artesia, NM 88210	City, State, Zip Artesia, NM 88210
Phone: (575) 748-4217	Phone: (575) 748-4217
Email: robert_asher@eogresources.com	Email: robert_asher@eogresources.com

Lab Use Only: Lab WO# P001052 | Job Number 19034-0001

TAT: 1D | 3D

EPA Program: RCRA | CWA | SDWA

State: NM X | CO | UT | AZ

Analysis and Method

Time Sampled	Date Sampled	Matrix	No Containers	Sample ID	Lab Number	DRO/ORO by 8015	GRO/DRO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	Remarks
2:20 PM	1/14/20	S	1	S-1.S	1	X	X	X			X	BGDOC
2:24 PM	1/14/20	S	1	S-1.0.5	2	X	X	X			X	BGDOC
2:29 PM	1/14/20	S	1	S-1.1	3	X	X	X			X	BGDOC

Additional Instructions:
PO# 205632

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

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.

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
	1/14/2020	3:47 PM	Raina Lopez	1/16/20	9:30
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

Lab Use Only
Received on ice: (Y) / N
T1 T2 T3
AVG Temp °C 4

Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other
Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA

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

envirotech Analytical Laboratory
5795 US Highway 64, Farmington, NM 87401
24 hour Emergency Response Phone (800) 362-1879
Ph (505) 632-0615 FX (505) 632-1865
envirotech-inc.com
labadmin@envirotech-inc.com

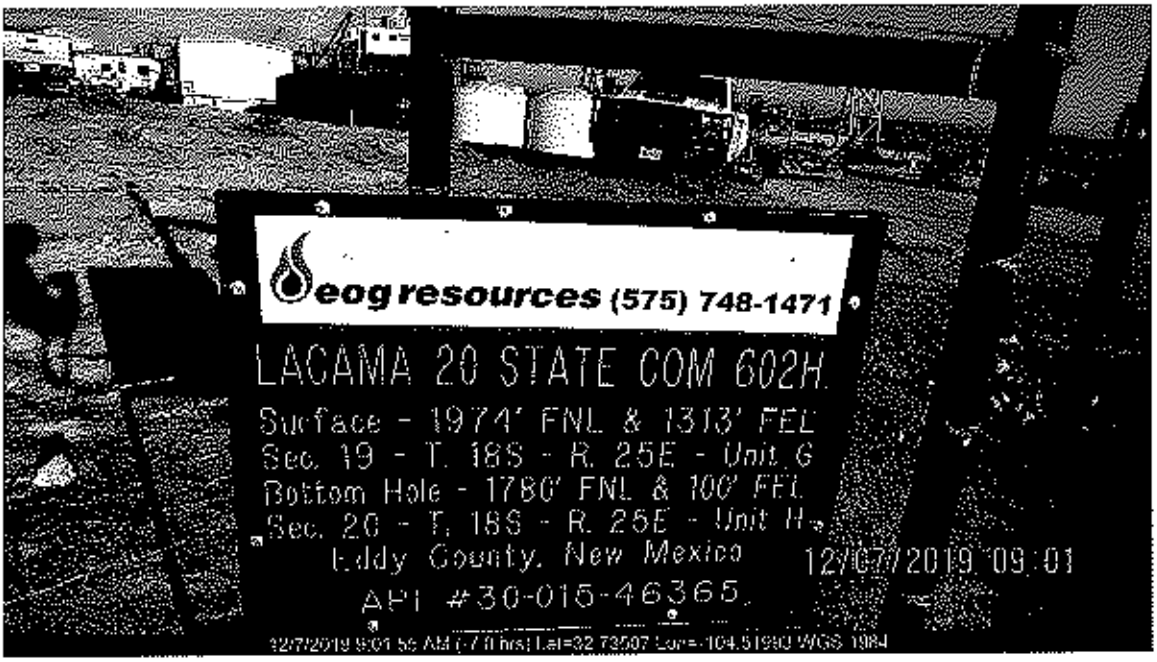
Appendix 7

Photos


12/07/2019_09:02
12/7/2019 9:02:07 AM (-7.0 hrs) Lat=32.73507 Lon=-104.51983 WGS 1984


12/07/2019_09:02
12/7/2019 9:02:15 AM (-7.0 hrs) Lat=32.73507 Lon=-104.51992 WGS 1984


12/07/2019 09:02
12/7/2019 9:02:25 AM (-7.0 hrs) Lat=32.73507 Lon=-104.51993 WGS 1984


eog resources (575) 748-1471
LACAMA 20 STATE COM 602H
Surface - 1974' FNL & 1313' FEL
Sec. 19 - T. 18S - R. 25E - Unit G
Bottom Hole - 1780' FNL & 100' FEL
Sec. 20 - T. 18S - R. 25E - Unit H
Eddy County, New Mexico
API #30-015-46365
12/07/2019 09:01
12/7/2019 9:01:56 AM (-7.0 hrs) Lat=32.73507 Lon=-104.51993 WGS 1984

Appendix 8

Form C-141
Release Notification

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

State of New Mexico
Energy Minerals and Natural Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources, Inc.	OGRID 7377
Contact Name Robert Asher	Contact Telephone 575-748-4217
Contact email bob_asher@eogresources.com	Incident # *(assigned by OCD)*
Contact mailing address 104 S. 4th	

Location of Release Source

Latitude 32.73591 Longitude -104.52032
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: La Cama 20 State Com #602H	Site Type: Drilling Pad
Date Release Discovered: 12/6/2019	API# 30-015-46365

Unit Letter	Section	Township	Range	County
G	19	18S	25E	Eddy

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name: Yates Ranch Properties LLP*)

Nature and Volume of Release

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

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☒ Other (Freshwater Drill Cuttings)	Volume/Weight Released (8 yds3)	Volume/Weight Recovered (7 yds3)

Cause of Release
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.

Form C-141
Page 2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

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

Initial Response

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

☒ The source of the release has been stopped.

☒ The impacted area has been secured to protect human health and the environment.

☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not 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: Robert Asher Title: Environmental Supervisor

Signature: Date: 2-4-2020

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

OCD Only

Received by: Date:

Appendix 9

Form C-141
Site Assessment/Characterization/Remediation Plan

Form C-141
Page 3

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

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

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

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within 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

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

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	
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Printed Name: Robert Asher Title: Environmental Supervisor

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OCD Only

Received by: Date:

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

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

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

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

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

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Robert Asher Title: Environmental Supervisor

Signature: Date: 6-3-2020

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

OCD Only

Received by: Date:

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: Date: