

EOG Resources, Inc.

Characterization & Remediation Plan

Boykin ACV #1

30-015-25334

nRH200483379

Section 34, T18S-R26E

Eddy County, New Mexico

June 24, 2020



Table of Contents

l.	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: 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 East Kincaid Road (CR 38, between MM 60 & MM 61). Turn left (East) and continue approximately 1.0 miles to access road to the intersection of E. Kincaid and Lake Road. Turn right (South) on Lake Road and continue approximately 0.1 miles, turn left (East) and continue approximately 200' to the battery (left side).

II. Background

EOG Resources, Inc. submitted to the NMOCD District I office a Form C-141, Release Notification for the release of 10B/PW with 10 B/PW recovered, that occurred on January 31, 2020. The cause was from a tank that ran over after putting the well online from being down awaiting pumping unit motor replacement. The lease operator reported the transfer pump panel off, preventing the transfer pump from coming on (release point was within the Waldrip JY #1 Battery, Appendix 7). The affected area is approximately 60' X 90' within the bermed and lined battery. A vacuum truck was called and 10 B/PW was recovered. But because of a below ground valve box is on the west side of the lined battery, and the valve box is unlined, the valve box area could be impacted from the release (the valve box is approximately 6' X 13' and valve infrastructure is out of service). EOG wants to insure that the valve box area was not compromised from the release and that area in question is compliant to NMOCD Table I Criteria.

II. Surface Geology and Depth to Ground Water

Area surface geology is Tansill and Yates Formations (Guadalupian). The Boykin ACV #1 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 34, T18S-R26E), the United States Geological Survey (USGS) National Water Information System, indicates the depth to groundwater as follows: USGS #324250104224101 (Depth to Water: 109'; Field Groundwater-Level Measurements: 8/2/1993; 0.3 Miles from Location), USGS #324249104220601 (Depth to water: 51'; Field Groundwater-Level Measurements: 1/26/2005; 0.59 Miles from Location), USGS #324215104223101 (Depth to Water: 51', Field groundwater-level measurements: 1/26/2005, 0.43 Miles from Location). The New Mexico State Engineers Office indicates the depth to groundwater as follows: NMOSE RA 02804 POD 2 (Depth to Water: 168', Log File Date: 12/28/2011, 0.60 Miles from Location). NMOSE RA 07394 (Depth to Water: 100', Log File Date: 3/8/1985, 0.82 Miles from Location). 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 the nearest significant watercourse being approximately 2.08 miles north of the location, (Appendix 4).



IV. NMOCD Table I Criteria

Depth to ground water 51-99'
Wellhead Protection Area > 1000'
Distance to significant watercourse > 1000'

Depth	Constituent	Method	Limit
51-99'	Chloride	EPA 300.0 or SM4500 CI B	10,000 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 February 27, 2020, with samples collected being 5-point composite samples at the depth of Surface, 6", 12" and 18" BSL & GPS coordinates are shown below.

(32.70976°; -104.37791°) (32.70975°, -104.37791°) (32.70975°; -104.37790°) (32.70976°; -104.37788°) (32.70975°; -104.37788°)

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 2/27/2020 enclosed analytical results being below the NMOCD Table I Criteria for the Depth of 51-99', 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 remove the valve and backfill the area(s) with approximately 2.89 cubic yards of clean/like backfill material.

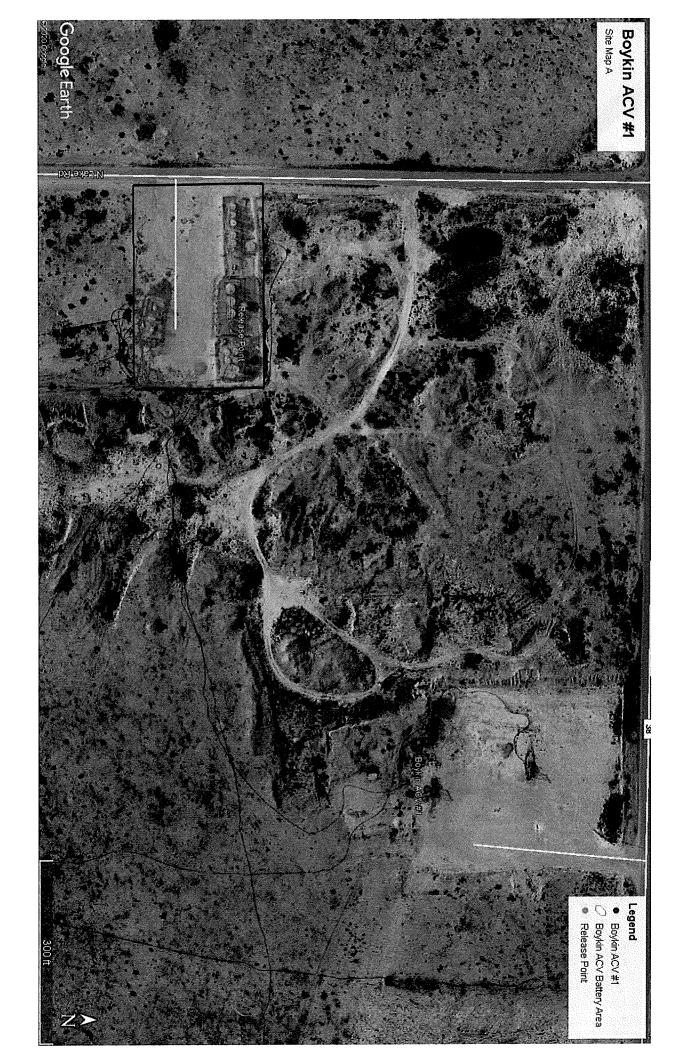
VII. Site Closure

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.

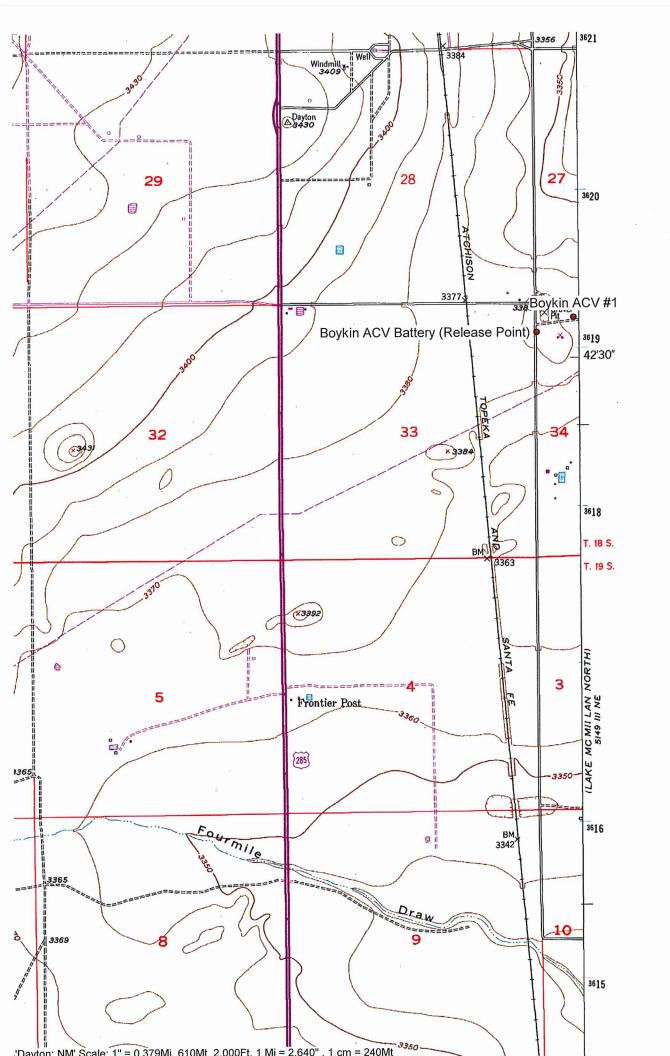


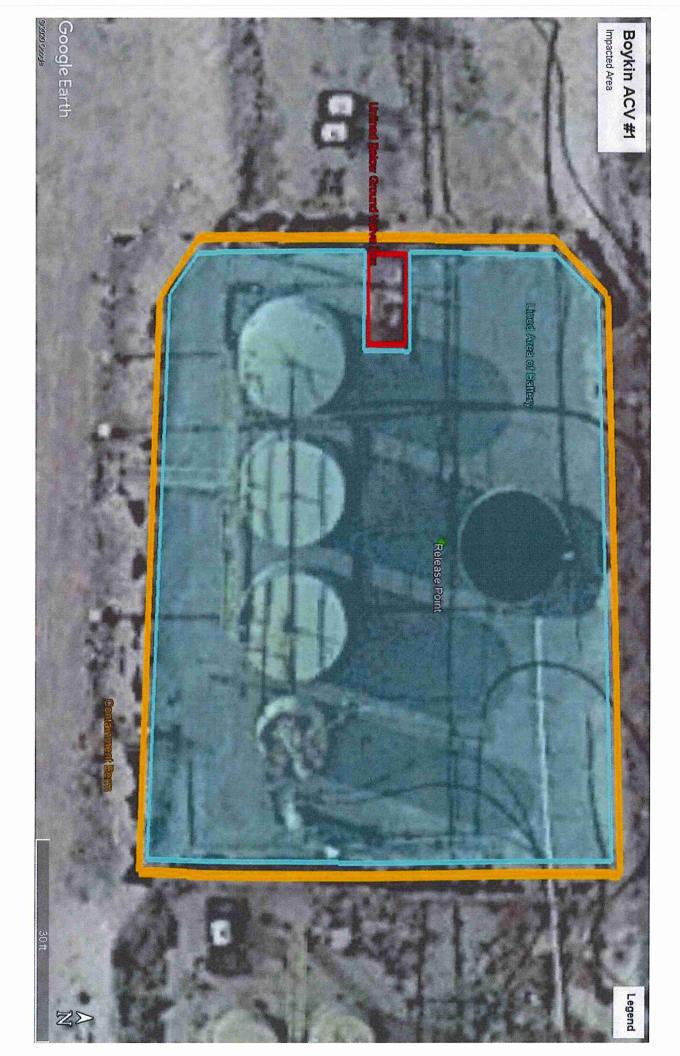
Appendix 1

Site/Topo/Impacted Map











Appendix 2

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 324250104224101 18S.26E.28.444432

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

Well Site

DESCRIPTION:

Latitude 32°42'50", Longitude 104°22'41" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011

Well depth: 115 feet

Land surface altitude: 3,362 feet above NAVD88.

Well completed in "Alluvium, Bolson Deposits and Other Surface

Deposits" (110AVMB) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count	
Field groundwater-level	1951-01-	1993-08-	67	
<u>measurements</u>	08	02	07	
Revisions	Unavailable	(site:0)		
Revisions	(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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Title: NWIS Site Information for USA: Site Inventory URL: https://waterdata.usgs.gov/nwis/inventory?agency_code=USGS&site_no=324250104224101

Page Contact Information: New Mexico Water Data Support Team

Page Last Modified: 2020-06-10 10:17:04 EDT

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National Water Information System: Web Interface

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HEGE	Water	Resources
0303	vvacei	Nesoul ces

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

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Search Results -- 1 sites found

site_no list =

• 324250104224101

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 324250104224101 18S.26E.28.444432

Available data for this site	Groundwater: Field measurements	~	GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°42'50", Longitude 104°22'41" NAD27

Land-surface elevation 3,362 feet above NAVD88

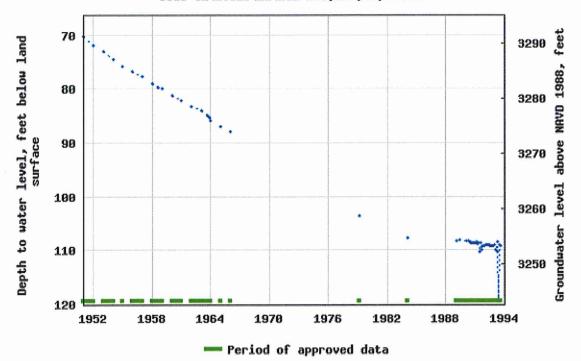
The depth of the well is 115 feet below land surface.

This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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





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

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Title: Groundwater for USA: Water Levels

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

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

Page Last Modified: 2020-06-10 10:17:31 EDT

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Site Information	V	United States	~	GO	

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USGS 324249104220601 18S.26E.27.433333

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

Well Site

DESCRIPTION:

Latitude 32°42'49", Longitude 104°22'06" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011

Well depth: 744 feet

Land surface altitude: 3,351 feet above NAVD88.

Well completed in "Grayburg Formation of Artesia Group" (313GRBG) local

aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count		
Field groundwater-level	1907-09-	2005-01-	80		
<u>measurements</u>	20	26	80		
Bevisions	Unavailable (site:0)				
<u>Revisions</u>	(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=324249104220601

Page Contact Information: New Mexico Water Data Support Team

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USGS Water Resources

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Groundwater	~	United States	~	GO

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• 324249104220601

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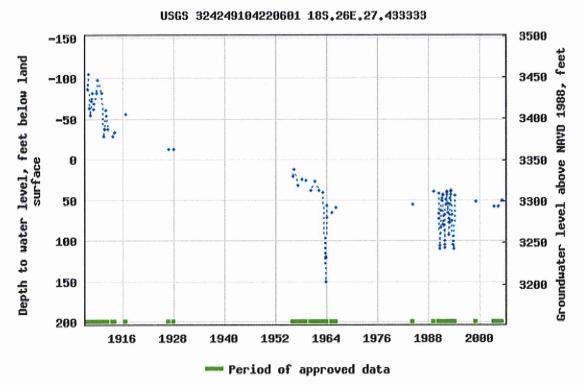
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USGS 324249104220601 18S.26E.27.433333

Available data for this site	Groundwater:	Field measurements	~	GO	
Eddy County, New Mexico					
Hydrologic Unit Code 13060	0011				
Latitude 32°42'49", Longit	ude 104°22	2'06" NAD27			
Land-surface elevation 3,35	51 feet abov	ve NAVD88			
The depth of the well is 744	feet below	land surface.			
This well is completed in th	e Grayburg	Formation of Ar	tesia	Group	(313GRBG)
local aquifer.					

Output formats

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



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

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Title: Groundwater for USA: Water Levels

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Site Information	~	United States	~	GO

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USGS 324215104223101 18S.26E.34.313244

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

Well Site

DESCRIPTION:

Latitude 32°42'15", Longitude 104°22'31" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011

Well depth: 871 feet

Land surface altitude: 3,360 feet above NAVD88.

Well completed in "Grayburg Formation of Artesia Group" (313GRBG) local

aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level measurements	1956-01- 04	2005-01- 26	32
Pevisions	Unavailable (site:0) (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=324215104223101

Page Contact Information: New Mexico Water Data Support Team

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• 324215104223101

Minimum number of levels = 1

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USGS 324215104223101 18S.26E.34.313244

Available data for this site	Groundwater:	Field measurements	~	GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°42'15", Longitude 104°22'31" NAD27

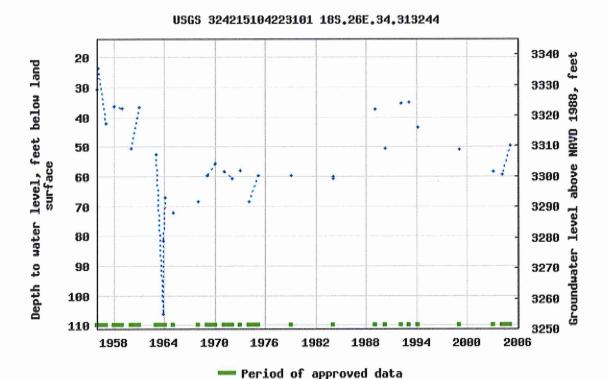
Land-surface elevation 3,360 feet above NAVD88

The depth of the well is 871 feet below land surface.

This well is completed in the Grayburg Formation of Artesia Group (313GRBG) local aguifer.

Output formats

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



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

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Title: Groundwater for USA: Water Levels

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

Page Last Modified: 2020-06-10 10:20:30 EDT

0.8 0.58 nadww01





New Mexico Office of the State Engineer **Point of Diversion Summary**

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag

POD Number

Q64 Q16 Q4 Sec Tws Rng

X

Υ

RA 02804 POD2

3 34 18S 26E

558425 3618324

Driller License:

1400

Driller Company: SOUTHEAST DRILLING COMPANY

Driller Name:

HAMMOND, MARK (LD)

Drill Finish Date:

12/22/2011

Plug Date:

Drill Start Date: Log File Date:

12/16/2011 12/28/2011

PCW Rcv Date:

Source:

Shallow

Pump Type:

Pipe Discharge Size:

Estimated Yield: 10 GPM

Casing Size:

6.25

Depth Well:

200 feet

Depth Water:

168 feet

Water Bearing Stratifications:

Top Bottom Description

168

Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

140 200



New Mexico Office of the State Engineer **Point of Diversion Summary**

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

Well Tag

POD Number

Q64 Q16 Q4 Sec Tws Rng

X

RA 07394

3 34 18S 26E

558369 3617968*

Driller License: 823

Driller Company: TIDWELL DRILLING

Driller Name:

Drill Start Date: 02/25/1985

Drill Finish Date:

03/04/1985

Plug Date:

Log File Date:

PCW Rcv Date:

Source:

Shallow

Pump Type:

03/08/1985

Pipe Discharge Size:

Estimated Yield: 30 GPM

Casing Size:

7.00

Depth Well:

166 feet

Depth Water:

100 feet

Water Bearing Stratifications:

Top Bottom Description

100

135 Sandstone/Gravel/Conglomerate

Casing Perforations:

Top Bottom

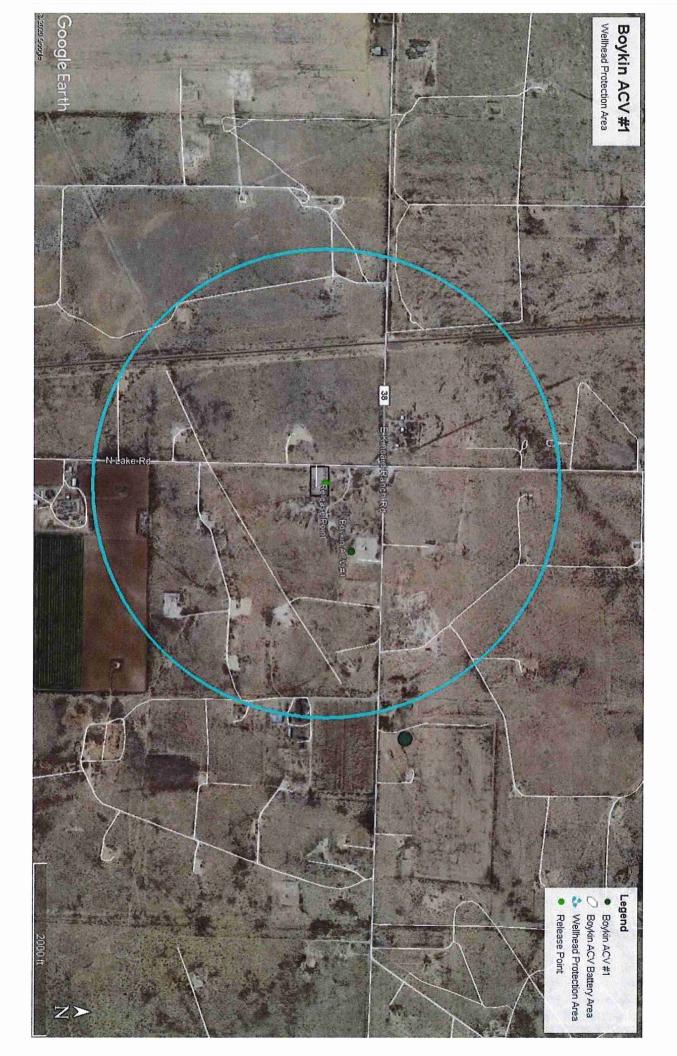
86

166



Appendix 3

Wellhead Protection Area



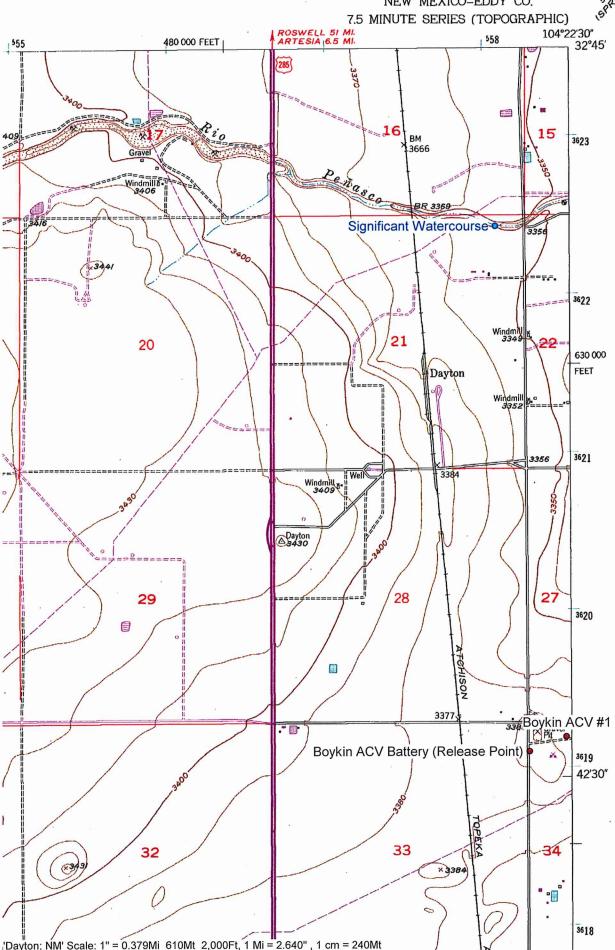


Appendix 4

Distance to Nearest Significant Watercourse



DAYTON QUADRANGLE NEW MEXICO-EDDY CO.



National Flood Hazard Layer FIRMette









Legend

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























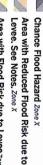
of 1% annual chance flood with average 0.2% Annual Chance Flood Hazard, Area







Future Conditions 1% Annual areas of less than one square mile Zone) depth less than one foot or with drainag





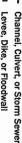








Area of Undetermined Flood Hazard Zone

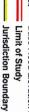
















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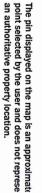




No Digital Data Available

Unmapped







time. The NFHL and effective information may change or was exported on 6/18/2020 at 9:44 AM and does not authoritative NFHL web services provided by FEMA. This map The flood hazard information is derived directly from the become superseded by new data over time. reflect changes or amendments subsequent to this date and

FIRM panel number, and FIRM effective date. Map images for elements do not appear: basemap imagery, flood zone labels, unmapped and unmodernized areas cannot be used for legend, scale bar, map creation date, community identifiers, his map image is void if the one or more of the following map





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MSC Search All Products (/portal/advanceSearch)

 MSC Products and Tools (/portal/resources/productsandtools)

Hazus (/portal/resources/hazus)

LOMC Batch Files (/portal/resources/lomc)

Product Availability (/portal/productAvailability)

MSC Frequently Asked Questions (FAQs) (/portal/resources/faq)

MSC Email Subscriptions (/portal/subscriptionHome)

Contact MSC Help (/portal/resources/contact)

FEMA Flood Map Service Center: Search By Address

Enter an address, place, or coordinates: (2)

-104.377787, 32.709781

Search

Whether you are in a high risk zone or not, you may need <u>flood insurance (https://www.fema.gov/national-flood-insurance-program</u>) because most homeowners insurance doesn't cover flood damage. If you live in an area with low or moderate flood risk, you are 5 times more likely to experience flood than a fire in your home over the next 30 years. For many, a National Flood Insurance Program's flood insurance policy could cost less than \$400 per year. Call your insurance agent today and protect what you've built.

Learn more about steps you can take (https://www.fema.gov/what-mitigation) to reduce flood risk damage.

Search Results—Products for EDDY COUNTY UNINCORPORATED AREAS

Show ALL Products » (https://msc.fema.gov/portal/availabilitySearch?addcommunity=350120&communityName=EDDY COUNT

The flood map for the selected area is number 35015C0550D, effective on 06/04/2010 ?





MAP IMAGE



(https://msc.fema.gov/portal/downloadProduct?

filepath=/35/P/Firm/35015C0550D.tif&productTypeID=FINAL PRODUCT&productSubTypeID=FIRM PANEL&productI

Changes to this FIRM 🔞

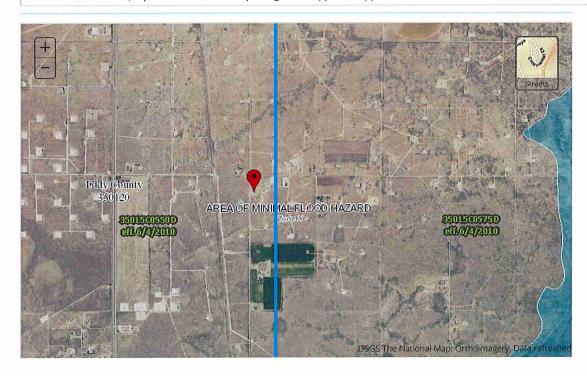
Revisions (0)

Amendments (0)

Revalidations (0)

You can choose a new flood map or move the location pin by selecting a different location on the locator map below or by entering a new location in the search field above. It may take a minute or more during peak hours to generate a dynamic FIRMette. If you are a person with a disability, are blind, or have low vision, and need assistance, please contact a map specialist (https://msc.fema.gov/portal/resources/contact).

Go To NFHL Viewer » (https://hazards-fema.maps.arcgis.com/apps/webappviewer/index.html?id=8b0adb51996444d4879338



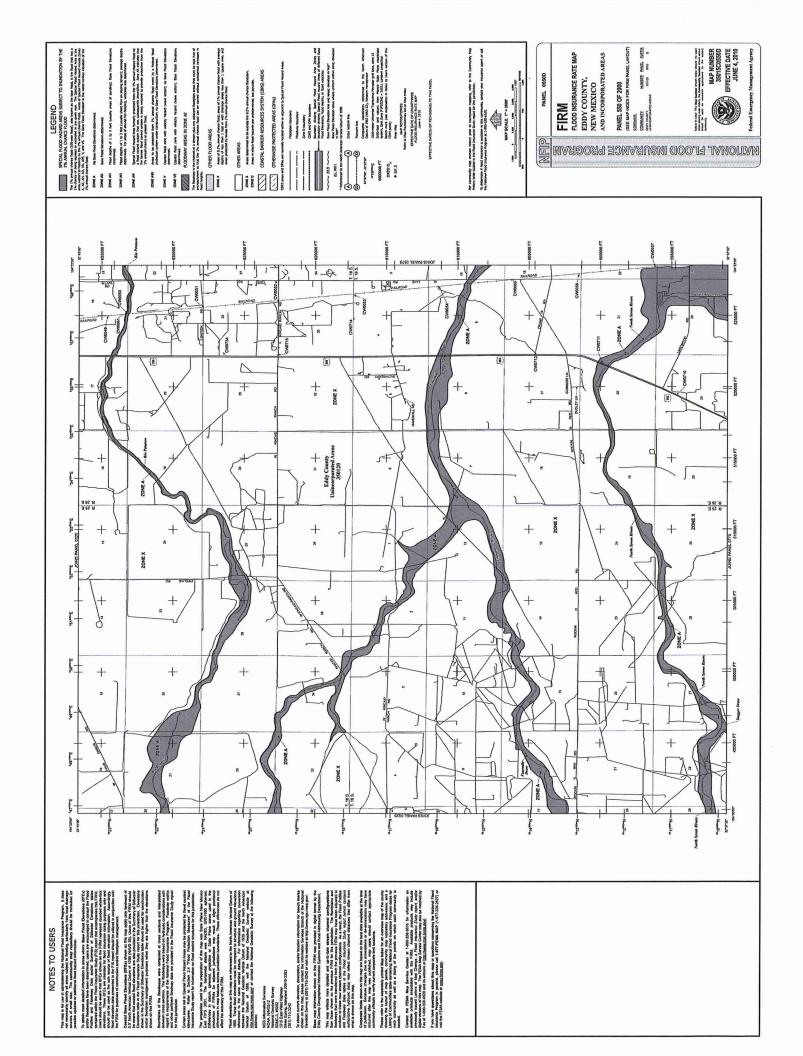




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Official website of the Department of Homeland Security





Appendix 5

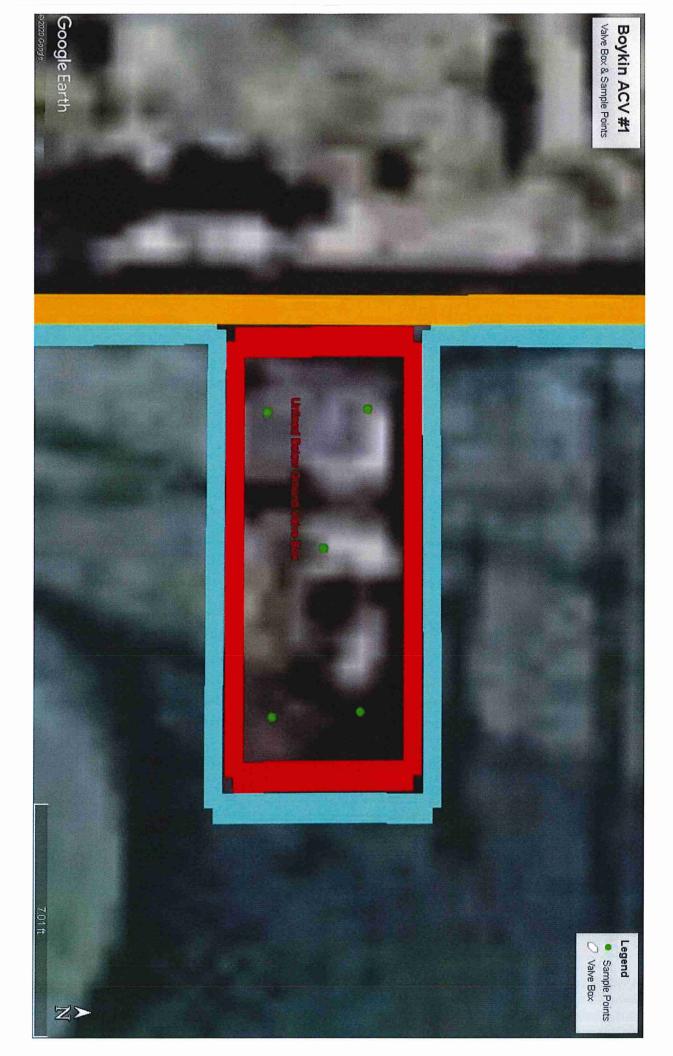
Field Data/Sample Data

Gissler B #59 Sample Data Per NMOCD Table I Criteria

Sample ID	Depth (ft. bgs)	Date	Chloride	TPH (GRO+DRO+ MRO)	GRO+DRO	BTEX	Benzene
S-1.S	Surface	2/27/20	1210	571	220	0.0000	0.0000
S-1.0.5	6"	2/27/20	3200	883	348	0.0000	0.0000
S-1.1.0	12"	2/27/20	860	1409	604	0.0000	0.0000
S-1.15	18"	2/27/20	855	189.8	65.8	0.0000	0.0000

Depth	Constituent	Method	Limit
51-99'	Chloride	EPA 300.0 or SM4500 CI B	10,000 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: 2/28/2020 Job Number: 19034-0001 Work Order: P002102

Project Name/Location: Boykin ACV #1 Battery

Report Reviewed By:	Walter Himhenen	Date:	3/5/20	
	Walter Hinchman, Laboratory Director			



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

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

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:

Boykin ACV #1 Battery

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher **Reported:** 03/05/20 08:39

Analytical Report for Samples

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
S-1.S	P002102-01A	Soil	02/27/20	02/28/20	Glass Jar, 4 oz.
S-1.0.5	P002102-02A	Soil	02/27/20	02/28/20	Glass Jar, 4 oz.
S-1.1.0	P002102-03A	Soil	02/27/20	02/28/20	Glass Jar, 4 oz.
S-1.1.5	P002102-04A	Soil	02/27/20	02/28/20	Glass Jar, 4 oz.

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Project Name:

Boykin ACV #1 Battery

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 03/05/20 08:39

S-1.S P002102-01 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %	50-1	50	2009040	02/28/20	03/01/20	EPA 8021B	-
Nonhalogenated Organics by 8015 - DRO/Ol	RO								
Diesel Range Organics (C10-C28)	220	25.0	mg/kg	1	2010005	03/02/20	03/03/20	EPA 8015D	
Oil Range Organics (C28-C40)	351	50.0	mg/kg	1	2010005	03/02/20	03/03/20	EPA 8015D	
Surrogate: n-Nonane		104 %	50-2	00	2010005	03/02/20	03/03/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.6 %	50-1	50	2009040	02/28/20	03/01/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	1210	20.0	mg/kg	1	2009041	02/28/20	02/29/20	EPA 300.0/9056A	

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Project Name:

Boykin ACV #1 Battery

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 03/05/20 08:39

S-1.0.5 P002102-02 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		101 %	50-1.	50	2009040	02/28/20	03/01/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OF	RO								
Diesel Range Organics (C10-C28)	348	250	mg/kg	10	2010005	03/02/20	03/02/20	EPA 8015D	
Oil Range Organics (C28-C40)	535	500	mg/kg	10	2010005	03/02/20	03/02/20	EPA 8015D	
Surrogate: n-Nonane		101 %	50-2	00	2010005	03/02/20	03/02/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.1 %	50-1.	50	2009040	02/28/20	03/01/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	3200	40.0	mg/kg	2	2009041	02/28/20	02/29/20	EPA 300.0/9056A	

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5796 Highway 64, Farmington, NM 87401

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



Project Name:

Boykin ACV #1 Battery

104 South 4th Street Artesia NM, 88210

Project Number: Project Manager:

19034-0001 Robert Asher

Reported: 03/05/20 08:39

S-1.1.0 P002102-03 (Solid)

		Reporting							
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		102 %	50-	-150	2009040	02/28/20	03/01/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	604	250	mg/kg	10	2010005	03/02/20	03/02/20	EPA 8015D	
Oil Range Organics (C28-C40)	805	500	mg/kg	10	2010005	03/02/20	03/02/20	EPA 8015D	
Surrogate: n-Nonane		107 %	50-	-200	2010005	03/02/20	03/02/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		84.4 %	50-	-150	2009040	02/28/20	03/01/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	860	20.0	mg/kg	1	2009041	02/28/20	02/29/20	EPA 300.0/9056A	

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Project Name:

Boykin ACV #1 Battery

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 03/05/20 08:39

S-1.1.5 P002102-04 (Solid)

		Reporting	, ,						
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organics by EPA 8021									
Benzene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Toluene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Ethylbenzene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
p,m-Xylene	ND	0.0500	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
o-Xylene	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Total Xylenes	ND	0.0250	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8021B	
Surrogate: 4-Bromochlorobenzene-PID		103 %	50-1	50	2009040	02/28/20	03/01/20	EPA 8021B	
Nonhalogenated Organics by 8015 - DRO/OR	0								
Diesel Range Organics (C10-C28)	65.8	25.0	mg/kg	1	2010005	03/02/20	03/03/20	EPA 8015D	
Oil Range Organics (C28-C40)	124	50.0	mg/kg	1	2010005	03/02/20	03/03/20	EPA 8015D	
Surrogate: n-Nonane		100 %	50-2	200	2010005	03/02/20	03/03/20	EPA 8015D	
Nonhalogenated Organics by 8015 - GRO									
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg	1	2009040	02/28/20	03/01/20	EPA 8015D	
Surrogate: 1-Chloro-4-fluorobenzene-FID		85.8 %	50-1	50	2009040	02/28/20	03/01/20	EPA 8015D	
Anions by 300.0/9056A									
Chloride	855	20.0	mg/kg	1	2009041	02/28/20	02/29/20	EPA 300.0/9056A	

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Project Name:

Boykin ACV #1 Battery

104 South 4th Street

Project Number:

19034-0001

Reported: 03/05/20 08:39

Artesia NM, 88210

Project Manager: Robert Asher

Volatile Organics by EPA 8021 - Quality Control

Envirotech Analytical Laboratory

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 2009040 - Purge and Trap EPA 5030A										
Blank (2009040-BLK1)				Prepared: ()2/28/20 1 <i>A</i>	Analyzed: (02/29/20 1			
Benzene	ND	0.0250	mg/kg							
Toluene	ND	0.0250	"							
Ethylbenzene	ND	0.0250	u							
p,m-Xylene	ND	0.0500	u							
o-Xylene	ND	0.0250								
Total Xylenes	ND	0.0250	u							
Surrogate: 4-Bromochlorobenzene-PID	7.99		"	8.00		99.9	50-150			
LCS (2009040-BS1)		Prepared: 02/28/20 1 Analyzed: 02/29/20 1								
Benzene	4.85	0.0250	mg/kg	5.00		97.0	70-130			
Toluene	4.98	0.0250	п	5.00		99.5	70-130			
Ethylbenzene	4.90	0.0250	u	5.00		98.1	70-130			
p,m-Xylene	9.75	0.0500	u	10.0		97.5	70-130			
o-Xylene	4.86	0.0250	11	5.00		97.3	70-130			
Total Xylenes	14.6	0.0250		15.0		97.4	0-200			
Surrogate: 4-Bromochlorobenzene-PID	8.12		n	8.00		101	50-150			
Matrix Spike (2009040-MS1)	Sou	rce: P002100-	01	Prepared: 0)2/28/20 1 A	Analyzed: 0	02/29/20 1			
Benzene	10.1	0.0500	mg/kg	10.0	ND	101	54.3-133			
Toluene	10.3	0.0500	n	10.0	ND	103	61.4-130			
Ethylbenzene	10.2	0.0500	н	10.0	ND	102	61.4-133			
p,m-Xylene	20.2	0.100	n	20.0	ND	101	63.3-131			
o-Xylene	10.1	0.0500	u	10.0	ND	101	63.3-131			
Total Xylenes	30.3	0.0500	u	30.0	ND	101	0-200			
Surrogate: 4-Bromochlorobenzene-PID	16.4		"	16.0		103	50-150			
Matrix Spike Dup (2009040-MSD1)	Sou	rce: P002100-	01	Prepared: 0)2/28/20 1 A	Analyzed: 0	2/29/20 1			
Benzene	9.32	0.0500	mg/kg	10.0	ND	93.2	54.3-133	7.96	20	
Toluene	9.56	0.0500	"	10.0	ND	95.6	61.4-130	7.46	20	
Ethylbenzene	9.41	0.0500	п	10.0	ND	94.1	61.4-133	7.82	20	
p,m-Xylene	18.7	0.100		20.0	ND	93.4	63.3-131	7.91	20	
o-Xylene	9.26	0.0500	н	10.0	ND	92,6	63.3-131	8.44	20	
Total Xylenes	27.9	0.0500		30.0	ND	93.1	0-200	8.08	200	
Surrogate: 4-Bromochlorobenzene-PID	16.2		"	16.0		101	50-150			

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Project Name:

Boykin ACV #1 Battery

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 03/05/20 08:39

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 2010005 - DRO Extraction EPA 3570										
Blank (2010005-BLK1)				Prepared &	Analyzed:	03/02/20 1				
Diesel Range Organics (C10-C28)	ND	25.0	mg/kg							
Oil Range Organics (C28-C40)	ND	50.0								
Surrogate: n-Nonane	47.2		"	50.0		94.4	50-200			
LCS (2010005-BS1)				Prepared &	Analyzed:	03/02/20 1				
Diesel Range Organics (C10-C28)	436	25.0	mg/kg	500		87.2	38-132			
Surrogate: n-Nonane	47.9		n	50.0		95.9	50-200			
Matrix Spike (2010005-MS1)	Sou	ce: P002081-	01	Prepared &	z Analyzed:	03/02/20 1				
Diesel Range Organics (C10-C28)	427	25.0	mg/kg	500	ND	85.4	38-132			
Surrogate: n-Nonane	46.6		"	50.0		93.3	50-200			
Matrix Spike Dup (2010005-MSD1)	Sour	ce: P002081-	01	Prepared &	z Analyzed:	03/02/20 1				
Diesel Range Organics (C10-C28)	429	25.0	mg/kg	500	ND	85.8	38-132	0.445	20	
Surrogate: n-Nonane	47.4		"	50.0		94.8	50-200			

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Project Name:

Boykin ACV #1 Battery

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 03/05/20 08:39

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 2009040 - Purge and Trap EPA 5030A				-						
Blank (2009040-BLK1)				Prepared: ()2/28/20 1 A	Analyzed: 0	2/29/20 1			
Gasoline Range Organics (C6-C10)	ND	20.0	mg/kg							
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.87		"	8.00		85.8	50-150		·	
LCS (2009040-BS2)				Prepared: ()2/28/20 1 A	Analyzed: 0	2/29/20 1			
Gasoline Range Organics (C6-C10)	49.8	20.0	mg/kg	50.0		99.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.97		"	8.00		87.2	50-150			
Matrix Spike (2009040-MS2)	Sour	ce: P002100-	01	Prepared: ()2/28/20 1 A	Analyzed: 0	2/29/20 2			
Gasoline Range Organics (C6-C10)	99.7	40.0	mg/kg	100	ND	99.7	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	14.0		"	16.0		87.5	50-150			
Matrix Spike Dup (2009040-MSD2)	Sour	ce: P002100-	01	Prepared: ()2/28/20 1 A	Analyzed: 0	2/29/20 2			
Gasoline Range Organics (C6-C10)	102	40.0	mg/kg	100	ND	102	70-130	1.78	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	14.1		"	16.0		88.3	50-150			

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Project Name:

Boykin ACV #1 Battery

104 South 4th Street Artesia NM, 88210 Project Number: Project Manager: 19034-0001 Robert Asher Reported: 03/05/20 08:39

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 2009041 - Anion Extraction EPA 3	300.0/9056A									
Blank (2009041-BLK1)				Prepared: (02/28/20 1	Analyzed: 0	2/29/20 1			
Chloride	ND	20.0	mg/kg							
LCS (2009041-BS1)				Prepared: (02/28/20 1	Analyzed: 0	2/29/20 1			
Chloride	257	20.0	mg/kg	250		103	90-110			
Matrix Spike (2009041-MS1)	Sour	ce: P002099-	01	Prepared: (02/28/20 1	Analyzed: 0	2/29/20 1			
Chloride	272	20.0	mg/kg	250	ND	109	80-120			
Matrix Spike Dup (2009041-MSD1)	Sour	ce: P002099-	01	Prepared: (02/28/20 1	Analyzed: 0	2/29/20 1			
Chloride	274	20.0	mg/kg	250	ND	110	80-120	0.776	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:

Boykin ACV #1 Battery

104 South 4th Street

Project Number: Project Manager: 19034-0001 Robert Asher Reported: 03/05/20 08:39

Artesia NM, 88210

Notes and Definitions

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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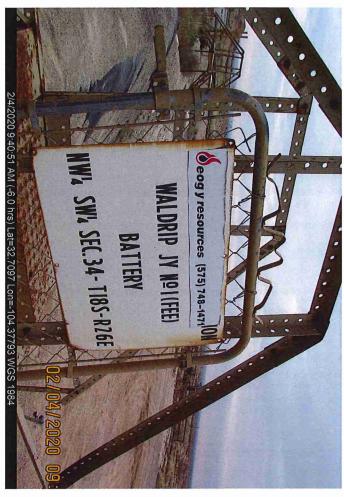
8-1.1.5

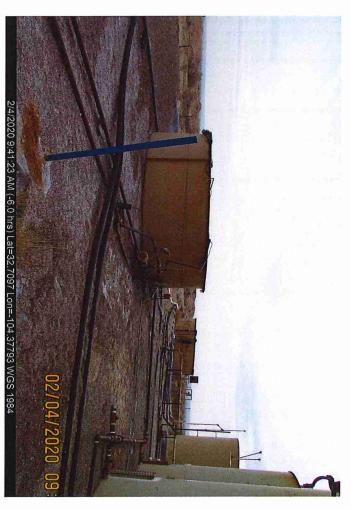


Appendix 7

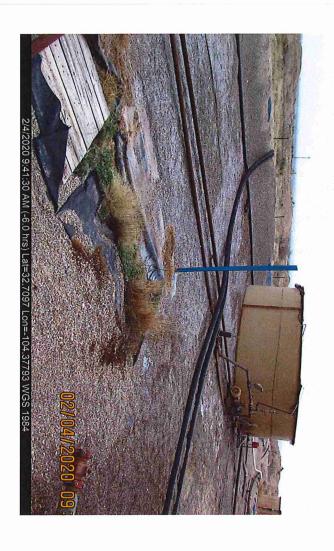
Photos















Appendix 8

Form C-141 Release Notification

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

State of New Mexico Energy Minerals and Natural Resources Department

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

Incident ID	
District RP	,
Facility ID	12.2.2.1
Application ID	

Release Notification

Responsible Party

Responsible Party				(OGRID
EOG Resources, Inc.					7377
				Contact Telephone	
Robert Asher				4	575-748-4217
				I	incident # (assigned by OCD)
bob_asher@eogresources.com					
Contact mail					
104 S. 4 th Ar	tesia, NM 8	8210	***************************************		
			Location	n of Rel	lease Source
Latitude 32.7	1062				ongitude <u>-104.37528</u>
			(NAD 83 in d	lecimal degre	es to 5 decimal places)
Site Name: Bo	oykin ACV	#1		S	ite Type: Battery
Date Release	Discovered:	01/31/2020		A	API# 30-015-25334
Unit Letter	Section	Township	Range		County
D	34	18S	26E	Eddy	County
D 34 105 20E Eucly					
	Material	(s) Released (Select al	. , , , , , , , , , , , , , , , , , , ,		me of Release s or specific justification for the volumes provided below)
Crude Oil		Volume Release			Volume Recovered (bbls)
□ Produced	Water	Volume Released (bbls) 10			Volume Recovered (bbls) 10
		Is the concentration of dissolved chloride in the produced water >10,000 mg/l?		chloride in	the Yes No
Condensat				Volume Recovered (bbls)	
☐ Natural Ga	as	Volume Released (Mcf)			Volume Recovered (Mcf)
Other (des	cribe)	Volume/Weight Released (provide units)		le units)	Volume/Weight Recovered (provide units)
	after puttin				ping unit motor replacement. Lease operator reports finding ls of produced water lost.

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 respon	nsible party consider this a major release?	
☐ Yes ⊠ No			
If YES, was immediate no	otice given to the OCD? By whom? To wh	om? When and by what means (phone, email, etc)?	
	Initial Ro	esponse	
The responsible p	party must undertake the following actions immediatel	v unless they could create a safety hazard that would result in injury	
☐ The source of the rele	ase has been stopped.		
☐ The impacted area has	s been secured to protect human health and	the environment.	
Released materials ha	ve been contained via the use of berms or c	ikes, absorbent pads, or other containment devices.	
All free liquids and re	coverable materials have been removed and	l managed appropriately.	
If all the actions described	l above have <u>not</u> been undertaken, explain v	vhy:	
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 Ashe	er	Title: Environmental Supervisor	
Signature:	4 (h.)	Date: <u>2/18/2020</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	NRM2004834379
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?	51'(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.

State of New Mexico Oil Conservation Division

Incident ID	NRM2004834379
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>6-24-2020</u>	
email: bob_asher@eogresources.com	Telephone: <u>575-748-4217</u>	
OCD Only		
Received by: Cristina Eads	Date:09/03/2020	

State of New Mexico Oil Conservation Division

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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 conjugated	firmed as part of any request for deferral of remediation.	
_	eduction equipment where remediation could cause a major facility	
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>6-24-2020</u>	
email: bob_asher@eogresources.com	Telephone: <u>575-748-4217</u>	
OCD Only		
Received by: Cristina Eads	Date:09/03/2020	
☐ Approved ☐ Approved with Attached Conditions of A	pproval	
Signature: Justus 2	Date: 09/04/2020	