

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

August 29, 2022

Bradford Billings EMNRD 1220 South St. Francis Drive Santa Fe, NM 87505

Re: Junior AWW State #4H

30-015-36421 I-17-16S-28E Eddy County, NM 2RP-4612

nAB1804435837

EOG Resources, Inc. is submitting the enclosed Closure Report for the above referenced site which currently has an open incident on the NMOCD E-Permitting website. The report is being submitted in reference to the C-141 Initial dated February 12, 2018. EOG Resources, Inc. has included a C-141 Final on the most current form in this Closure Report, and hereby requests closure of the open incident.

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

Respectfully,

Chase Settle

Rep Safety & Environmental Sr

EOG Resources, Inc.

Chase Settle



August 29, 2022

Junior AWW State #4H

Closure Report

30-015-36421

I-17-16S-28E

Eddy County, NM

August 29, 2022

nAB1804435837



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August 29, 2022

I. Location

The site is located in Eddy County, New Mexico approximately 13.25 miles northeast of Artesia.

II. Background

On January 25, 2018, EOG Y Resources Inc. (EOG) had a release of 1 barrel of crude oil and 5 barrels produced water at the Junior AWW State #4H. The release was caused due to corrosion of a heater treater, however the release occurred within a lined containment which allowed for all fluids to be recovered. The area impacted by the release was approximately 50 feet by 20 feet within the berm of the lined containment. A C-141 Initial (Appendix A) was submitted to NMOCD on February 12, 2018.

NMOCD District II required a workplan for the characterization of impacts at the site to be submitted prior to activities being completed at the site, this email is also included in Appendix A. This Characterization Plan was submitted to NMOCD on March 20, 2018, with approval to proceed with the investigation provided by NMOCD District II through email on May 14, 2018. These are included as Appendix B and Appendix C.

III. Scope of Work Completed

Based on the approval of the Characterization Plan by NMOCD on May 14, 2018, EOG submitted a notice to NMOCD District II to perform a liner inspection at the release site on November 8, 2018. Prior to the scheduling of the inspection, all gravel within the impacted area of the containment had been removed to provide visual access to the liner for inspection. With the liner exposed, the inspection of the liner was completed on November 8, 2018, and documented with photographs. The inspection confirmed no integrity issues with the liner at the time of the release, finding no defects or other failures which would have allowed the release to breach the lined containment.

As evidenced by the photos included in the original Closure Report, and included with this report as well, a precipitation event occurred prior to the inspection date, but other than displaying the ability of the liner to retain fluids, it had no other adverse impacts on the visual inspection of the liner integrity.

Since the liner integrity was not compromised, no soil sampling was conducted beneath the liner. As stated in the approved Characterization Plan, soil sampling was only to occur if the liner integrity was to have already been compromised. However, without prior damage to the liner, there was no need to damage and create integrity issues to collect soil samples when the release could not have impacted the soil beneath the liner.

On November 20, 2018, the original Closure Report and C-141 Final were submitted to NMOCD. These documents are included as Appendix D.

IV. Closure Request

This release and approval of the Characterization Plan occurred prior to the passage of the current Spill Rule (NMAC 19.15.29), but the remediation actions performed meet the current notification and guidance requirements.

Based on the completion of the approved plan at the time, and being within the current requirements of the rule, EOG Resources, Inc. requests Closure of nAB1804435837, the current C-141 Closure Form is included with this Closure Report as Appendix E.

energy opportunity growth



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Liner Inspection Photographs

energy opportunity growth















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August 29, 2022

Appendix A Original C-141 Initial

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From: Weaver, Crystal, EMNRD

To: "Yvette Moore"; Bratcher, Mike, EMNRD

Cc: <u>Bob Asher; Chase Settle</u>

Subject: RE: C-141 Initial Junior AWW State #4H

Date: Thursday, March 15, 2018 12:40:00 PM

Attachments: <u>image001.png</u>

1. 4612 - COAs and signed C-141 Initial.pdf

RE: EOG * Junior AWW State #4H * 30-015-36421 * 2RP-4612

Yvette/Bob,

I have included a scanned copy of the signed Initial C-141 Remediation Permit along with an attached Conditions of Approval (COA). The OCD tracking number for this event is 2RP-4612, please refer to this tracking number on any and all submissions sent in to the OCD. Please remit a site characterization plan (see COA document included in attachment) or advise OCD of plan of action immediately since this one has a due date of 3/12/18 and that has passed.

Thank you,

Crystal Weaver

Environmental Specialist OCD – Artesia District II

811 S. 1st Street Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963 Fax: 575-748-9720

From: Yvette Moore [mailto:Yvette_Moore@eogresources.com]

Sent: Monday, February 12, 2018 10:30 AM

To: Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>; Weaver, Crystal, EMNRD

<Crystal.Weaver@state.nm.us>

Cc: Bob Asher <Bob_Asher@eogresources.com>; Chase Settle <Chase_Settle@eogresources.com>

Subject: C-141 Initial Junior AWW State #4H

Please find the attached C-141 Initial for the location listed below:

Junior AWW State #4H 30-015-36421 2130' FSL & 150' FEL Sec 17-16S-28E Eddy County, New Mexico

Thanks,



Yvette Moore

Rep Safety & Environmental II
Safety & Environmental Department
Artesia Division
(575)748-4223
yvette_moore@eogresources.com

NM OIL CONSERVATION

ARTESIA DISTRICT

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

FEB 1 2 2018

Form C-141 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in **RECEIVED** cordance with 19.15.29 NMAC.

Release Notification and Corrective Action OPERATOR Final Report Name of Company Contact Robert Asher EOG Y Resources, Inc Telephone No. Address 104 S. 4th Street Artesia NM 88210 575-748-1471 **Facility Name** Facility Type Junior AWW State #4H Battery API No. Mineral Owner Surface Owner 30-015-36421 State² State LOCATION OF RELEASE North/South Line Feet from the East/West Line Unit Letter Feet from the County Section Township Range 28E 2130 Eddy 16S South 150 East Latitude 32.92112 Longitude -104.18951 NAD83 NATURE OF RELEASE Volume Recovered Type of Release Volume of Release Crude Oil/Produced Water 1 B/O & 5 B/PW 1 B/O & 5 B/PW Date and Hour of Occurrence Date and Hour of Discovery Source of Release 1/26/2018; 3:30 PM 1/25/2018; PM Heater Treater Was Immediate Notice Given? If YES, To Whom? ☐ Yes ☐ No ☒ Not Required By Whom? Date and Hour N/A N/A Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ⊠ No If a Watercourse was Impacted, Describe Fully.* N/A Describe Cause of Problem and Remedial Action Taken.* Welding around the swedge on the bottom water leg of heater rusted out. Vacuum truck and roustabout crew called. Describe Area Affected and Cleanup Action Taken.* The impacted area was approximately 75' X 45' within the secondary containment of the production pad (this containment is bermed with a 20 mil liner). Vacuum truck recovered all oil and produced water released. A liner integrity test will be conducted, if results are within the allowable limits to affirm integrity a Final Report, C-141 will be submitted to the NMOCD requesting closure. If the results indicate integrity failure a characterization plan will be submitted to the NMOCD. Depth to Ground Water: 50-99' (70' per NMOSE & 79.25' per USGS), Wellhead Protection Area: No, Distance to Surface Water Body: >1000', SITE RANKING IS 10. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local hws and/or regulations. OIL CONSERVATION DIVISION Signature: Printed Name: Robert Asher Approved by Environmental Specialist: **Expiration Date:** Title: Environmental Supervisor Approval Date: Conditions of Approv E-mail Address: robert asher@eogresources.com Attached X Phone:575-748-4217 Date: February 12, 2018 * Attach Additional Sheets If Necessary

Operator/Responsible Party,

The OCD has received the form C-141 you provided on **2/12/18** regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number <u>2012</u> has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 3/12/18. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

Weaver, Crystal, EMNRD

From: Yvette Moore <Yvette_Moore@eogresources.com>

Sent: Monday, February 12, 2018 10:30 AM

To: Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD

Cc: Bob Asher; Chase Settle

Subject: C-141 Initial Junior AWW State #4H

Attachments: Form C-141 Initial (Junior AWW State #4H).pdf

Please find the attached C-141 Initial for the location listed below:

Junior AWW State #4H 30-015-36421 2130' FSL & 150' FEL Sec 17-16S-28E Eddy County, New Mexico

Thanks,



Yvette Moore

Rep Safety & Environmental II Safety & Environmental Department Artesia Division (575)748-4223 yvette_moore@eogresources.com



August 29, 2022

Appendix BCharacterization Plan

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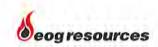


EOG Resources, Inc. Artesia Division Office 104 S. 4th Street Artesia, N. M. 88210

EOG Y Resources, Inc.

Characterization Plan

Junior AWW State #4H
30-015-36421
Section 17, T16S-R28E
Eddy County, New Mexico
March 20, 2018
2RP-4612



Location

Go east of Artesia on US Highway 82 to MM 127, continue approximately 0.5 miles County Road 214 (Barnaval Draw Road) and turn left (North). Continue north approximately 6.2 miles, the road will fork (take left fork) and continue for approximately 2.2 miles. Road will curve to the left, continue on main lease road in a west/southwest direction for approximately 3.9 miles. Turn left (south) at lease road for 0.1 miles, turn right (west) and follow the inclined road to the NE corner of the location.

II. Background

On February 12, 2018, EOG Y Resources, Inc. submitted to the NMOCD District I office a Form C-141 for the release of 1 B/O & 5 B/PW with 1 B/O & 5 B/PW recovered. The affected area is approximately 75' X 45' within the secondary containment of the production facility and was contained within the bermed and lined battery. The release was caused by the welding around a swedge on the bottom of the water leg of the heater unit rusted out. A vacuum truck was dispatched and recovered all of the released oil and produced water. A backhoe crew was dispatched and excavated the visibly impacted gravel. The impacted gravel excavated was hauled to an NMOCD approved disposal facility.

III. Surface and Ground Water

Area surface geology is Paleozoic Permian. Based on information regarding this location (Section 17, T16S-R28E), the New Mexico Office of the State Engineer (NMOSE) database depth to groundwater is follows: (NMOSE-RA 12299 POD1, 70'), the United States Geological Survey National Water Information System, is as follows: (USGS #335834104164501, 79.25' & USGS #325638104072801, 49.25'). The depth to groundwater is 50 – 99', per USGS and NMOSE groundwater level. Based on this information the Site Ranking is a Ten (10).

Watercourses in the area are dry except for infrequent flows in response to major precipitation events, with the nearest body of surface water being Flat Lake at 3.10 miles away.

IV. NMOCD Ranking Criteria

The ranking for this site is Ten (10) based on the following:

Depth to ground water 50-99'
Wellhead Protection Area > 1000'
Distance to surface water body > 1000'

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

 Benzene
 10 ppm

 BTEX
 50 ppm

 TPH
 1,000 ppm

Chlorides No established RRAL



V. Liner Integrity Test

With the battery being bermed and lined with a 20 millimeter liner, a liner integrity test will be performed to determine if there are any leaks, tears, punctures and/or breaches. The battery will be filled with fresh water and the level gauged. After a period of three (3) hours, the water level will be gauged again, based off of the measurements, the SMA Evaporation Formula will be used to determine either liner integrity is intact where a Closure Report/Form C-141 Final Report will be submitted to the NMOCD II Office requesting closure. Or if there is abnormal water loss that would indicate a liner failure in which, VI. Sampling Procedure will be implemented.

VI. Sampling Procedure

Samples will only be collected if the liner integrity test shows a failure or breach in the liner.

Vertical delineation samples (SP-1 & SP-2) will be collected at a central sample point within the release area. Samples will be collected at 1', 2', 3', and 4' below grade surface (bgs) or when auger refusal is encountered. Due to the nature of the release (oil & produced water), the vertical delineation soil samples will be analyzed for Benzene, BTEX, TPH extended (Chlorides for documentation). All samples will be sent to a NMOCD approved laboratory for analysis.

Horizontal delineation samples will be collected at the 4 cardinal point (CP1-CP4) at what is believed to be the outer edge of the release/excavation area. Samples will be collected at 1' below grade surface (bgs) or when auger refusal is encountered. If a sample point is determined to be impacted by the release, a new sample will be collected moving out further until an area without impaction is located. Once located, samples will be taken to collaborate the impaction path to the next sample point in the sequence. Due to the nature of the release (oil & produced water), the vertical delineation soil samples will be analyzed for Benzene, BTEX, TPH extended (Chlorides for documentation). All samples will be sent to a NMOCD approved laboratory for analysis.

As a baseline for all sampling analytical data, background sample(s) will be collected up gradient from the release to the east. The point remains on the production pad in an area that has no known release impaction. This creates less damage to the SLO surface by keeping the activities on the production pad and reduces the vegetative damage that would otherwise be created by moving off of location to collect background samples in the adjoining pasture.

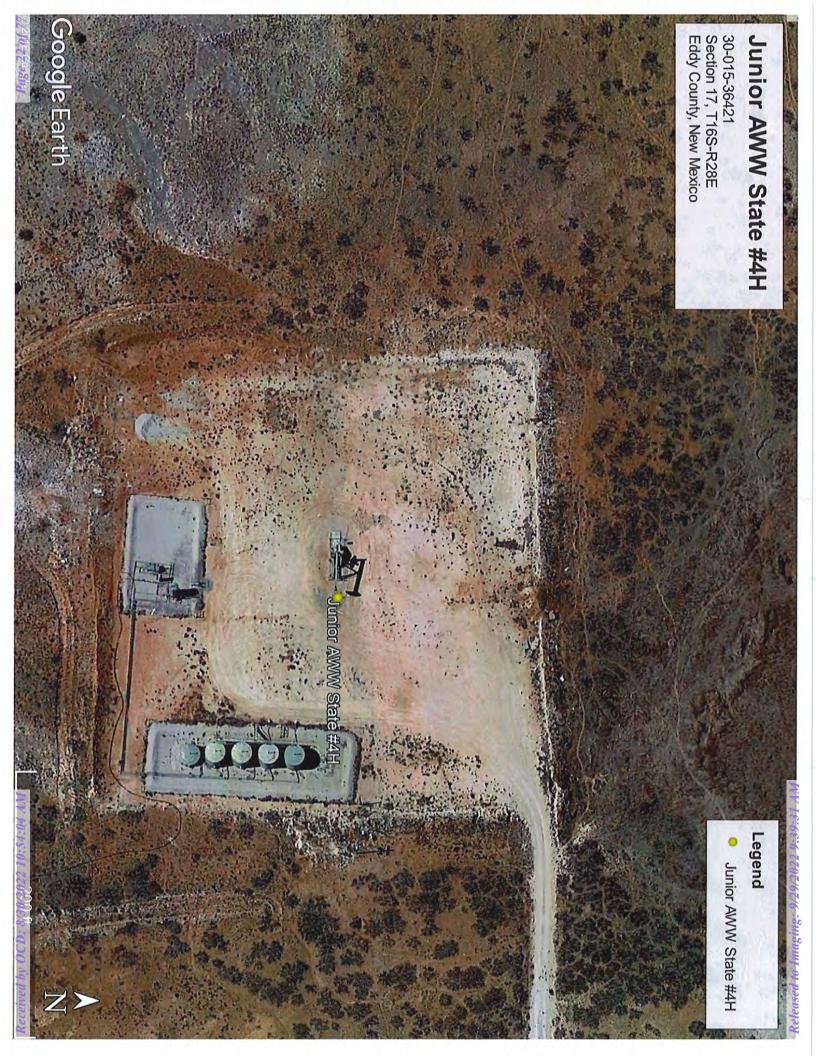
Latitude/Longitude Co	ordinates for Sample Points
SP-1	32.920836°; -104.190035°
SP-2	32.920776°; -104.189881°
CP-1	32.920856°; -104.189967°
CP-2	32.920757°; -104.189969°
CP-3	32.920796°; -104.189853°
CP-4	32.920805°; -104.190063°
Background Sample	32.920866°: -104.190620°



Figure 1

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Site Map



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Figure 2

Vertical Sample Point(s)





Figure 3

Horizontal Sample Point(s)





Figure 4

Background Sample Point(s)

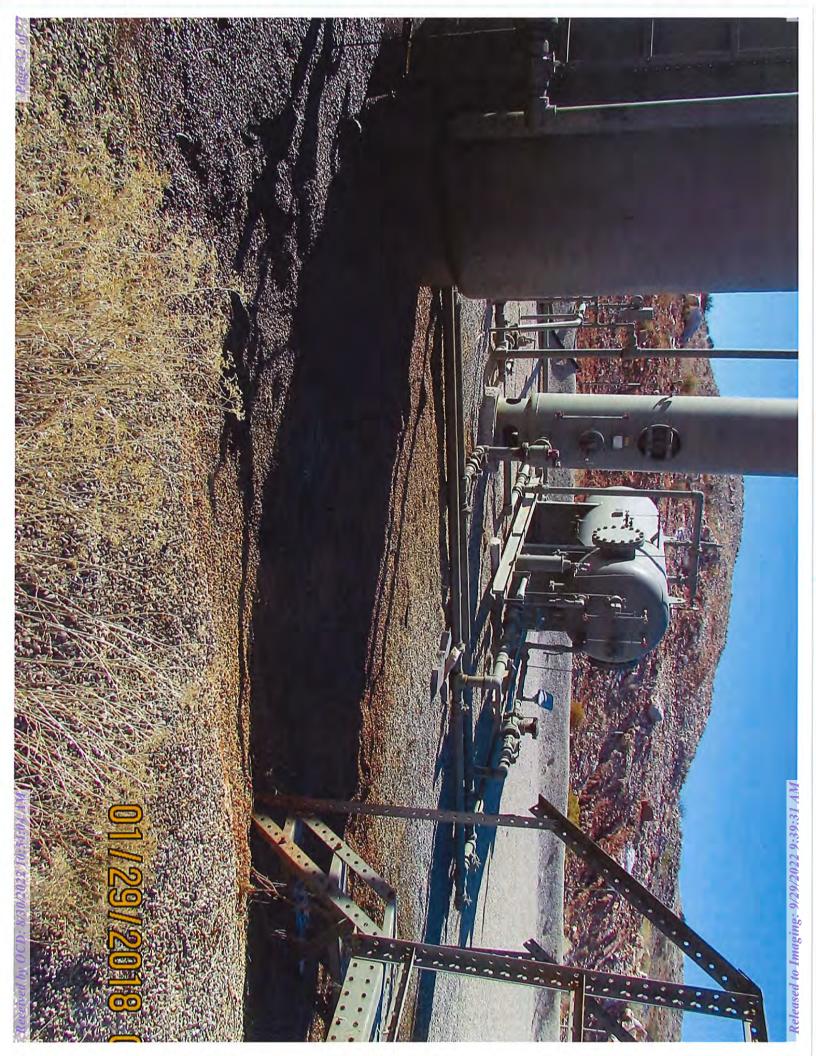


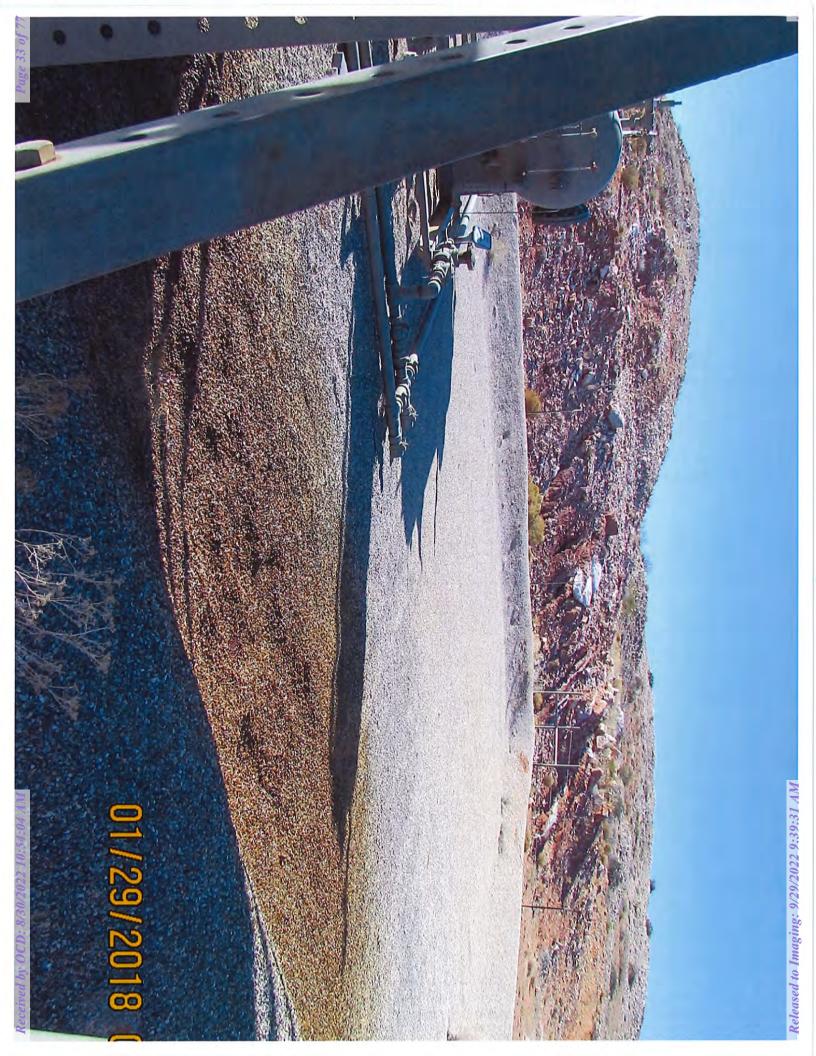


Photos









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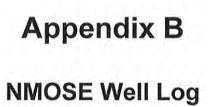


Appendix A

Water Well Date Site Map



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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

х

RA 12299 POD1

3 25 16S 28E

580832 3639215

Driller License:

1058

Driller Company: KEY'S DRILLING & PUMP SERVICE

Driller Name:

CLINTON KEY

Drill Start Date:

09/21/2015

Drill Finish Date:

09/23/2015

Plug Date:

Log File Date:

10/07/2015

PCW Rcv Date:

Depth Well:

Source:

Shallow

Estimated Yield: 30 GPM

Pump Type: Casing Size:

4.50

Pipe Discharge Size:

115 feet

Depth Water:

70 feet

Water Bearing Stratifications:

Top Bottom Description

Sandstone/Gravel/Conglomerate

70 80

Shale/Mudstone/Siltstone

105

Other/Unknown 115

Casing Perforations:

Top Bottom

95

115

Appendix C

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USGS Groundwater Level Information



USGS Home Contact USGS Search USGS

National Water Information System: Web Interface

USGS Water Resources

Geographic Area:		
United States	V	GO
	United States	United States

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USGS 335834104164501 15S.27E.31.11442

Available data for this site SUMMARY OF ALL AVAILABLE DATA V

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Well Site

DESCRIPTION:

Latitude 32°58'34", Longitude 104°16'45" NAD27

Chaves County, New Mexico , Hydrologic Unit 13060007

Well depth: not determined.

Land surface altitude: 3,429 feet above NGVD29.

Well completed in "Artesia Group" (313ARTS) local aquifer

AVAILABLE DATA:

Data Type	Begin Date	End Date	Count
Field groundwater-level	1986-06-	1994-04-	1
<u>measurements</u>	01	28	4

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

Questions about sites/data? Feedback on this web site Automated retrievals Help

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U.S. Department of the Interior | U.S. Geological Survey

Title: NWIS Site Information for USA: Site Inventory URL: https://waterdata.usgs.gov/nwis/inventory?



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Page Contact Information: New Mexico Water Data Support Team

Page Last Modified: 2018-02-12 11:08:19 EST

0.29 0.28 caww01





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National Water Information System: Web Interface

USGS Water Resources

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~	GO
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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

335834104164501

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 335834104164501 15S.27E.31.11442

Available data for this site Groundwater: Field measurements GO

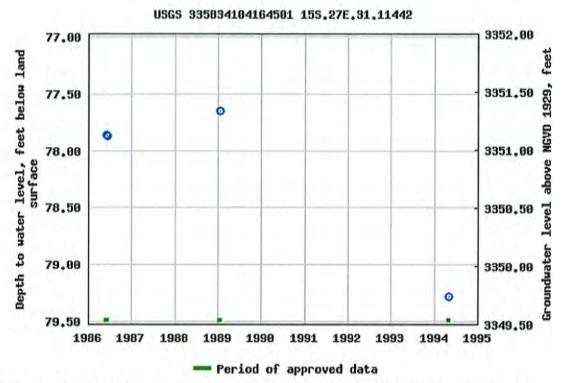
Chaves County, New Mexico Hydrologic Unit Code 13060007 Latitude 32°58'34", Longitude 104°16'45" NAD27 Land-surface elevation 3,429 feet above NGVD29

This well is completed in the Artesia Group (313ARTS) 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

Questions about sites/data?
Feedback on this web site
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U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

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

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

Page Last Modified: 2018-02-12 11:08:26 EST

1.05 0.91 nadww01





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National Water Information System: Web Interface

USGS Water Resources

Data Category:		Geographic A
Site Information	~	United Stat

GO

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USGS 325638104072801 16S.28E.12.22132

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

Well Site

DESCRIPTION:

Latitude 32°56'38", Longitude 104°07'28" NAD27 Eddy County, New Mexico , Hydrologic Unit 13060011

Well depth: 54 feet

Land surface altitude: 3,580 feet above NGVD29.

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	1994-03-	2009-01-	7
measurements	09	13	/

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**

Questions about sites/data? Feedback on this web site Automated retrievals Help

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U.S. Department of the Interior | U.S. Geological Survey
Title: NWIS Site Information for USA: Site Inventory URL: https://waterdata.usgs.gov/nwis/inventory?



Page Contact Information: New Mexico Water Data Support Team

Page Last Modified: 2018-02-12 11:14:20 EST

0.29 0.27 caww01



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National Water Information System: Web Interface

USGS Water Resources

aphic Area:	
d States 🗸	GO
	d States 🗸

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Groundwater levels for the Nation

Search Results -- 1 sites found

site_no list =

• 325638104072801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

USGS 325638104072801 16S.28E.12.22132

				GO
Available data for this site	Groundwater:	Field measurements	V	GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°56'38", Longitude 104°07'28" NAD27

Land-surface elevation 3,580 feet above NGVD29

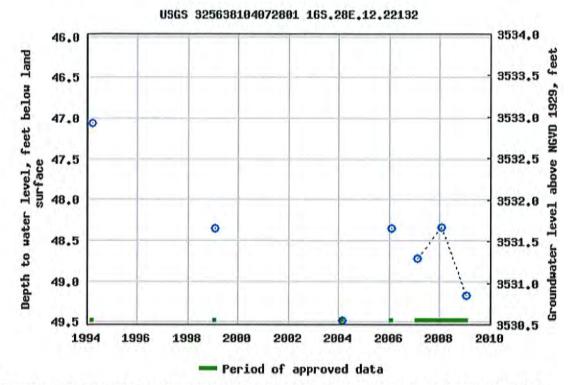
The depth of the well is 54 feet below land surface.

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

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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

Questions about sites/data?
Feedback on this web site
Automated retrievals
Help
Data Tips
Explanation of terms
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U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels

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

Page Contact Information: USGS Water Data Support Team

Page Last Modified: 2018-02-12 11:14:37 EST

1.07 0.92 nadww01





Appendix D

Form C-141 Initial

Attach Additional Sheets If Necessary

NM OIL CONSERVATION

ARTESIA DISTRICT

State of New Mexico Energy Minerals and Natural Resources

FEB 1 2 2018

Form C-141 Revised April 3, 2017

Released to Imaging: 9/29/2022 9:39:31 AM

Oil Conservation Division 1220 South St. Francis Dr.

Submit 1 Copy to appropriate District Office in **RECEIVED** cordance with 19.15,29 NMAC.

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

1220 5, 5t. F1811	icis Dr., Santa i	e, INIVI 67303		Sa	nta Fe	e, NM 875	05						
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Address	ources, mc.		•• •• •• •• •• •• •• •• •• •• •• •• ••	<u> 20070</u>		Telephone N							
	treet Artesia	NM 8821	0			575-748-147							
Facility Nar						Facility Typ	е						
Junior AW\	W State #4H					Battery							
Surface Ow				Mineral O	wner					API No.			
State P	MVX.	<u> </u>		State						30-015-	36421		
•						OF REL	EAS	E					
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Title: Enviro	nmental Supe	ervisor				Approval Date	Λ	1311	0	Expiration I	U. /	IA	
E-mail Addre	ss: robert_as	her@eogres	ources.con	n	(Conditions of		al:	1.	1	Attached	M ~	
Date: Februar	ry 12, 2018			Phone:575-748-4	217	SU	~ (A)	ttal	Nl	S		$T_{\mathcal{A}}$	UP YUIS

OCD: 8/30/2022 10:54:04 AM

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 3/12/18. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted.

🞅 for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Released to Imaging: 9/29/2022 9:39:31 AM

Jim Griswold OCD Environmental Bureau Chief 1220 South St. Francis Drive Santa Fe, New Mexico 87505 505-476-3465 jim.griswold@state.nm.us

Weaver, Crystal, EMNRD

From:

Yvette Moore <Yvette_Moore@eogresources.com>

Sent:

Monday, February 12, 2018 10:30 AM

To:

Bratcher, Mike, EMNRD; Weaver, Crystal, EMNRD

Cc:

Bob Asher; Chase Settle

Subject:

C-141 Initial Junior AWW State #4H

Attachments:

Form C-141 Initial (Junior AWW State #4H).pdf

Please find the attached C-141 Initial for the location listed below:

Junior AWW State #4H 30-015-36421 2130' FSL & 150' FEL Sec 17-16S-28E Eddy County, New Mexico

Thanks,



Yvette Moore

Rep Safety & Environmental II
Safety & Environmental Department
Artesia Division
(575)748-4223
yvette_moore@eogresources.com

Junior AWW State #4H Closure Report #nAB1804435837



August 29, 2022

Appendix CCharacterization Plan Approval Email

energy opportunity growth

From: Bratcher, Mike, EMNRD

To: "Bob Asher"; Weaver, Crystal, EMNRD; Yvette Moore

Subject: RE: C-141 Initial Junior AWW State #4H Date: Monday, May 14, 2018 9:29:00 AM

Attachments: image001.png

RE: EOG Y * Junior AWW St 4H * **2RP-4612** * DOR: 1/25/18

Bob,

Your proposal for liner integrity testing and subsequent sampling should the liner integrity test fail, is approved.

Thank you,

Mike Bratcher NMOCD District 2 811 South First Street Artesia, NM 88210 575~748~1283 Ext 108

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Bob Asher <Bob Asher@eogresources.com>

Sent: Tuesday, March 20, 2018 3:56 PM

To: Weaver, Crystal, EMNRD < Crystal. Weaver@state.nm.us>; Yvette Moore

<Yvette Moore@eogresources.com>; Bratcher, Mike, EMNRD <mike.bratcher@state.nm.us>

Subject: RE: C-141 Initial Junior AWW State #4H

Thank you,

Robert C. "Bob" Asher

Environmental Supervisor

Safety & Environmental Department EOG Resources, Inc.

Artesia Division

EOG Safety Begins With YOUR Safety

eog resources

From: Weaver, Crystal, EMNRD [mailto:Crystal.Weaver@state.nm.us]

Sent: Thursday, March 15, 2018 12:41 PM

To: Yvette Moore < Yvette_Moore@eogresources.com>; Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us>

Cc: Bob Asher < Bob Asher@eogresources.com >; Chase Settle @eogresources.com >

Subject: RE: C-141 Initial Junior AWW State #4H

** External email. Use caution.**

This sender failed our fraud detection checks and may not be who they appear to be. Learn about spoofing Feedback

RE: EOG * Junior AWW State #4H * 30-015-36421 * 2RP-4612

Yvette/Bob,

I have included a scanned copy of the signed Initial C-141 Remediation Permit along with an attached Conditions of Approval (COA). The OCD tracking number for this event is 2RP-4612, please refer to this tracking number on any and all submissions sent in to the OCD. Please remit a site characterization plan (see COA document included in attachment) or advise OCD of plan of action immediately since this one has a due date of 3/12/18 and that has passed.

Thank you,

Crystal Weaver

Environmental Specialist OCD – Artesia District II 811 S. 1st Street

Artesia, NM 88210

Office: 575-748-1283 ext. 101

Cell: 575-840-5963 Fax: 575-748-9720

From: Yvette Moore [mailto:Yvette Moore@eogresources.com]

Sent: Monday, February 12, 2018 10:30 AM

To: Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us >; Weaver, Crystal, EMNRD

<<u>Crystal.Weaver@state.nm.us</u>>

Cc: Bob Asher < Bob_Asher@eogresources.com >; Chase Settle < Chase_Settle@eogresources.com >

Subject: C-141 Initial Junior AWW State #4H

Please find the attached C-141 Initial for the location listed below:

Junior AWW State #4H 30-015-36421 2130' FSL & 150' FEL Sec 17-16S-28E

Eddy County, New Mexico

Thanks,



Yvette Moore

Rep Safety & Environmental II
Safety & Environmental Department
Artesia Division
(575)748-4223
yvette_moore@eogresources.com

Junior AWW State #4H Closure Report #nAB1804435837



August 29, 2022

Appendix D Original Closure Report

energy opportunity growth

Received by OCD: 8/30/2022 10:54:04 AM

Bob Asher

From:

Bob Asher

Sent:

Tuesday, November 20, 2018 11:03 AM

To:

Bradford.Billings@state.nm.us

Cc:

mike.bratcher@state.nm.us; Katie Jamison (Katie Jamison@eogresources.com); Chase

Settle

Subject:

Closure Report (Junior AWW State #4H)

Attachments:

Closure Report (Junior AWW State #4H, 11-20-2018).pdf

Brad,

Attached is the Closure Report for the above location. This release occurred prior to 8/14/2018.

Thank you,

Robert C. "Bob" Asher

Environmental Supervisor

Safety & Environmental Department EOG Resources, Inc. Artesia Division Artesia, NM 88210 575-748-4217 (Office) 575-365-4021 (Cell)

EOG Safety Begins With YOUR Safety

eog resources



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

November 20, 2018

Mr. Bradford Billings NMOCD District IV 1220 South Saint Francis Drive Santa Fe, NM 87505

Re:

Junior AWW State #4H

30-015-36421

Section 17, T16S-R28E Eddy County, New Mexico

2RP-4612

Mr. Billings,

EOG Y Resources, Inc. is submitting to the NMOCD District IV, a closure report on form C-141, including required attachments, to document all closure activities where applicable. EOG Y Resources, Inc. is certifying that all information in the closure report and attachments are correct and that the responsible party has complied with all applicable closure requirements and conditions specified in division rules or directives.

The report is being submitted in response to the C-141 Initial Report dated 2/12/2018.

Thank you.

EOG Y Resources, Inc.

Robert Asher Environmental Supervisor

Cc: Mike Bratcher



Location

GO EAST OF ARTESIA ON HWY 82 FOR APPROX. 13 MILES TO COUNTY ROAD 214 (BARNAVAL DRAW ROAD). TURN NORTH ON BARNAVAL DRAW ROAD AND GO APPROX. 6.2 MILES, ROAD WILL FORK HERE (OLD WELL SIGNS). TAKE LEFT FORK AND GO APPROX. 2.2 MILES AND TAKE RIGHT FORK IN ROAD AND GO APPROX. 4.4 MILES. AGAIN TAKE RIGHT FORK IN ROAD AND GO APPROX. 3.1 MILES TO A PIT THAT THE ROAD GOES THROUGH. GO DOWN HILL AND TAKE LEFT FORK, GO 3.1 MILES AND TAKE RIGHT FORK (GOES UNDER POWERLINE) AND GO 1.2 MILES (THERE WILL BE A BIG DIRT TANK WEST OF THIS POINT). GO LEFT HERE AND FOLLOW LEASE ROAD FOR 0.1 OF A MILE TO A WELL LOCATION. THE NEW ROAD WILL START HERE ON THE NORTH SIDE OF THIS WELL PAD GOING WEST FOR APPROX. 0.1 OF A MILE TO THE NORTHEAST CORNER OF THE LOCATION.

II. Background

On February 12, 2018, EOG Y Resources, Inc. submitted to the NMOCD District I Office a Form C-141 for the release of 1 B/O and 5 B/PW with 1 B/O and 5 B/PW recovered. This release occurred when the weld on the bottom water leg of the heater rusted out on 1/25/2018. The affected area is approximately 20' X 50' (with in the bermed and lined heater/knockout containment which measures, 165' X 35'. This containment is located west of the battery) on the production pad/facility. A vacuum truck(s) was called, and recovered all of the oil and produced water. A roustabout crew was dispatched, the affected material (gravel) was removed and the affected area of the liner was exposed to inspect and demonstrate liner integrity.

III. Surface and Ground Water

Area surface geology is Salado Formation. Based on information regarding this location (Section 17, T16S-R28E), the New Mexico Office of the State Engineer (NMOSE) database depth to groundwater is follows: (NMOSE-RA 12299 POD1, DTGW @ 70', 3.86 miles southeast), the United States Geological Survey (USGS) National Water Information System, is as follows: (USGS #325638104072801, DTGW @ 49.25', 4.10 miles northeast). The depth to groundwater is approximately 59.625', per NMOSE and USGS groundwater level.

Watercourses in the area are dry except for infrequent flows in response to major precipitation events, with the nearest body of surface water is the Pecos River (9.13 miles, west of the location).

IV. NMOCD Ranking Criteria

The ranking for this site is Ten (10), based on the following:

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



V. Liner Integrity

The release occurred within a lined containment area, EOG Y Resources, Inc. demonstrated liner integrity after affected material is removed and the affected area of the liner is exposed and is providing certification on form C-141.

EOG Y Resources, Inc. has visually inspected the liner where the release occurred and the liner remains intact and had the ability to contain the leak in question.

On November 6, 2018, a two business days' notice was emailed to the NMOCD Division II Office before conducting the liner inspection on 11/8/2018.



Figure 1

Site Map



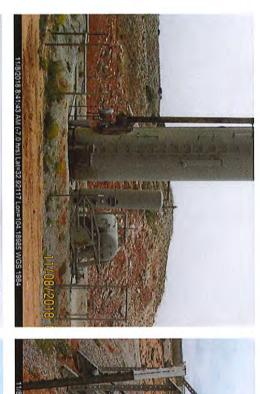
Received by OCD: 8/30/2022 10:54:04 AM



Oeog resources

Photos









Appendix A

NMOCD Liner Inspection Notification

Bob Asher

From: Bob Asher

Tuesday, November 6, 2018 6:52 AM Sent:

To: maria.pruett@state.nm.us

mike.bratcher@state.nm.us; Katie Jamison (Katie Jamison@eogresources.com) Cc:

Subject: **Liner Inspections**

EOG Resources, Inc. will be conducting a liner inspection at the following locations on November 8, 2018 at 7:00 AM.

Sears BRS #2H Mucho Luck BBW Federal Com #2H Junior AWW State #4H

EOG will start at the Sears BRS #2H.

EOG FR/PPE Policy is as follows.

All EOG employees, contractors and Regulatory personnel or other Non-EOG personnel are required to wear approved FR clothing and PPE on all EOG locations.

FR Clothing:

Approved FR pants or jeans

Approved FR shirts are to be long sleeves and shirts tucked in.

PPE includes:

H2S Monitors

Safety Glasses

Hard Hat

Steel toed or closed toe leather shoes.

If Non-EOG personnel do not have these items (excluding footwear), items can be provided by EOG.

Thank you,

Robert C. "Bob" Asher

Environmental Supervisor

Safety & Environmental Department

EOG Resources, Inc.

Artesia Division

Artesia, NM 88210

575-748-4217 (Office)

575-365-4021 (Cell)

EOG Safety Begins With YOUR Safety





Appendix B

Form C-141 Initial Report

NM OIL CONSERVATION

ARTESIA DISTRICT

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**

FEB 1 2 2018

Form C-141 Revised April 3, 2017

Released to Imaging: 9/29/2022 9:39:31 AM

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

Submit 1 Copy to appropriate District Office in RECEIVED cordance with 19,15,29 NMAC.

Release 1 NAB 1804435837	Eligibility and the property of the second	tion and Co OPERATOR	드러 게임하다 시간 하시기 하다 그렇게 모든 생		nitial Report		Final Repor			
Name of Company		Contact	☐ Initial Report ☐ Fi							
EOG Y Resources, Inc.	505		Robert Asher							
Address			Telephone No.							
104 S. 4th Street Artesia NM 88210		575-748-14								
Facility Name		Facility Typ	e							
Junior AWW State #4H		Battery								
Surface Owner 1	Mineral Ow	mer		API	No					
	State	VIICI			15-36421					
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17 16S 28E 2	2130	South	150	East		Edd	<u>/</u>			
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Crude Oil/Produced Water		1 B/O & 5	B/PW Hour of Occurrence		& 5 B/PW and Hour of Di	coverv				
Source of Release Heater Treater		1/25/2018			018; 3:30 PM	scovery				
Was Immediate Notice Given?	Not Req	If YES, To	Whom?							
By Whom?		Date and I	Date and Hour							
N/A		N/A	The Cold Cold Cold Cold Cold Cold Cold Cold							
Was a Watercourse Reached? ☐ Yes ☑ No	If YES, V	If YES, Volume Impacting the Watercourse.								
If a Watercourse was Impacted, Describe Fully.* N/A	A									
Describe Cause of Problem and Remedial Action Taker Welding around the swedge on the bottom water leg of Describe Area Affected and Cleanup Action Taken.*	n.* heater ruste	d out. Vacuum truc	k and roustabout	crew called.			CL Park			
The impacted area was approximately 75° X 45° v 20 mil liner). Vacuum truck recovered all oil and allowable limits to affirm integrity a Final Report, C-14 characterization plan will be submitted to the NMOCD. Protection Area: No, Distance to Surface Water Bod I hereby certify that the information given above is true regulations all operators are required to report and/or fill public health or the environment. The acceptance of a should their operations have failed to adequately investor the environment. In addition, NMOCD acceptance of federal, state, or local taws and/or regulations.	produced was the subsection of	vater released. A bmitted to the NM Ground Water: 50 SITE RANKING the to the best of my case notifications at by the NMOCD rediate contaminal mediate contaminal	liner integrity test OCD requesting c -99' (70' per NN IS 10. I knowledge and u and perform corre narked as "Final F tion that pose a th we the operator of	will be conduct losure. If the re IOSE & 79.23 anderstand that ctive actions for the port" does not reat to ground we responsibility for the IOSE will be considered to ground we responsibility for the IOSE will be conducted to ground we responsibility for the IOSE will be conducted to ground we responsibility for the IOSE will be conducted to the IOSE will be cond	ted, if results and sults indicate it is per USGS pursuant to NN releases which telieve the operator, surface woor compliance	ntegrity), Welli MOCD in may elerator of vater, hu	n the relation for the second			
Signature: CACC •			A	SERVATION	6 .	TABLE TOUR	bros			
Printed Name: Robert Asher		Approved by	Environmental S	- 1 -	only	11.0				
Title: Environmental Supervisor		Approval Da	ate: 8/3/	Expirat	ion Date:	UH				
E-mail Address: robert_asher@eogresources.com	N. A. a. C.	Conditions	of Approval:	chad	Attache	d X	200 111			
	e:575-748-42	217 8	NITH	LI WUI		0	KPYUI			
Attach Additional Sheets If Necessary	te as	ssessmers	nts or	cept	ial					

Operator/Responsible Party,

The OCD has received the form C-141 you provided on 2/12/18 regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2004 4012 has been assigned. Please refer to this case number in all future correspondence.

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete <u>division-approved corrective action</u> for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 3/12/18. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- •Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.
- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.
- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold
OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us



Appendix C

Form C-141 Final Report

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

State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised April 3, 2017

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

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

					OPI	ERATOR				1.77
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Name of Company EOG Y Resources, Inc.					Contact Robert Ash	or.				
Address					Telephone l					
104 S. 4th Street Artesia NM 88210					575-748-14					
Facility Name					Facility Typ					
Junior AW	W State #4	Н				Battery				
Surface Owner Mineral Owner				wner	API No.			7.4		
State State					30-015-36421					
				LOCA	TIO	N OF RE	LEASE			
Unit Letter	Section	Township	Range	Feet from the		/South Line	Feet from the	East/W	est Line	County
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By Whom?				7.12.17 0-1 .1.17.14.0	4	Date and Hour				
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Was a Water	course Read] Yes ⊠	l No		If YES, Vo	olume Impacting	the Water	course.	
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Junior AWW State #4H Closure Report #nAB1804435837



August 29, 2022

Appendix E Current C-141 Closure

energy opportunity growth

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	nAB1804435837
District RP	2RP-4612
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party EOG Resources, Inc.			(OGRID 73	377			
Contact Name Chase Settle				(Contact Telephone 575-748-1471			
Contact email Chase_Settle@eogresources.com				n I	Incident # (assigned by OCD) nAB1804435837			
Contact mail	ling address	104 S. 4th St	reet, Artesia,	, NM 882				
			Locatio	n of Rel	ease So			
Latitude 32.	92082		(NAD 83 in	Lo decimal degre	ongitude <u> </u> es to 5 decim	-104.18991 pal places)		
Site Name Ju	ınior AW\	N State #4H		S	ite Type E	Battery		
Date Release	Discovered	1/25/2018		A	API# (if app	licable) 30-01	5-36421	
Unit Letter	Section	Township	Range		Coun	ty		
I	17	16S	28E	Eddy				
	Materia		Nature an	nd Volu	me of F	Release	ne volumes provided below)	
Crude Oi		Volume Releas	· · · · ·			Volume Recovered (bbls) 1		
✓ Produced	Water	Volume Releas	<u> </u>			Volume Recovered (bbls) 5		
		Is the concentrate produced water	tion of dissolved >10,000 mg/l?	d chloride in	the	Yes 1	No	
Condensa	ate	Volume Releas	ed (bbls)			Volume Recovered (bbls)		
Natural C	Gas	Volume Releas	ed (Mcf)			Volume Recovered (Mcf)		
Other (describe) Volume/Weight Released (provide un				ride units)		Volume/We	ight Recovered (provide units)	
Cause of Rel	^{ease} Pleas	e refer to the	original C-14	41 for de	tails of 2	2RP-4612.		

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Incident ID	nAB1804435837
District RP	2RP-4612
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 respon	nsible party consider this a major release?
If YES, was immediate no	otice given to the OCD? By whom? To wh	nom? When and by what means (phone, email, etc)?
	Initial Ro	esponse
The responsible	party must undertake the following actions immediatel	y unless they could create a safety hazard that would result in injury
☐ The impacted area ha☐ Released materials ha☐	ease has been stopped. as been secured to protect human health and ave been contained via the use of berms or decoverable materials have been removed and	likes, absorbent pads, or other containment devices.
	d above have <u>not</u> been undertaken, explain v	
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred blease attach all information needed for closure evaluation.
regulations all operators are public health or the environi failed to adequately investig	required to report and/or file certain release notiment. The acceptance of a C-141 report by the Cate and remediate contamination that pose a thre	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name: Chase S	Settle	Title: Rep Safety & Environmental Sr
Signature: Chase	Settle	Date: 08/29/2022
email: Chase_Settle	@eogresources.com	Telephone: 575-748-1471
OCD Only		
Received by:		Date:

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Incident ID nAB1804435837
District RP 2RP-4612
Facility ID
Application ID

Closure

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

Closure Report Attachment Checklist: Each of the following it	tems must be included in the closure report.
✓ A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC	C District office must be notified 2 days prior to final sampling)
Description of remediation activities	
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of should their operations have failed to adequately investigate and renhuman health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regula restore, reclaim, and re-vegetate the impacted surface area to the confaccordance with 19.15.29.13 NMAC including notification to the O	tions. The responsible party acknowledges they must substantially nditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.
	Title: Rep Safety & Environmental Sr
Signature: <u>Chase Settle</u>	Date: 08/29/2022
email: Chase_Settle@eogresources.com	Telephone: <u>575-748-1471</u>
OCD Only	
Received by:	Date:
	of liability should their operations have failed to adequately investigate and water, human health, or the environment nor does not relieve the responsible or regulations.
Closure Approved by: Juttany Hall	Date: 09/29/2022
Printed Name: Brittany Hall	Title: Environmental Specialist

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 139396

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
P.O. Box 2267	Action Number:
Midland, TX 79702	139396
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Creat By		Condition Date
bha	None None	9/29/2022