

Incident ID	nrm2020233512
District RP	
Facility ID	
Application ID	

Closure

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

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

- ☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- ☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- ☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- ☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Dale Woodall Title: Env. Professional
Signature: Dale Woodall Date: 11/09/2022
email: dale.woodall@dvn.com Telephone: 575-748-1838

OCD Only

Received by: Jocelyn Harimon Date: 11/09/2022

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Robert Hamlet Date: 1/27/2023
Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced

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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?	<u>340</u> (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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)?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Did the release impact areas not on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> 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

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State of New Mexico
Oil Conservation Division

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Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



Pima Environmental Services
5614 N. Lovington Highway
Hobbs, NM 88240
575-964-7740

June 24, 2022

Bureau of Land Management
620 East Green St
Carlsbad, NM, 88220

NMOCD District 2
811 S. First St
Artesia, NM, 88210

RE: Liner Inspection and Closure Report
Arcturus 18 Fed 3H Battery
API No. 30-015-38953
GPS: Latitude 32.656229 Longitude -103.916297
UL -M, Section 18, Township 19S, Range 31E
NMOCD Reference No. NRM2020233512

Devon Energy Production Company (Devon) has contracted Pima Environmental Services, LLC (Pima) to perform a liner inspection and prepare this closure report for a produced water release that happened at the Arcturus 18 Fed 3H Battery (Arcturus). An initial C-141 was submitted on July 11, 2020, and can be found in Appendix B. This incident was assigned Incident ID NRM2020233512, by the New Mexico Oil Conservation Division (NMOCD).

Site Information and Site Characterization

The Arcturus is located approximately twelve (12) miles South of Loco Hills, NM. This spill site is in Unit M, Section 18, Township 19S, Range 31E, Latitude 32.656229 Longitude -103.916297, Eddy County, NM. A Location Map can be found in Figure 1.

Based upon New Mexico Office of the State Engineer well water data, depth to the nearest groundwater in this area is 180 feet below-grade surface (BGS). According to the United States Geological Survey well water data, depth to the nearest groundwater in this area is 204 feet BGS. See Appendix A for referenced water surveys. The Arcturus is in a high karst area (Figure 3). A Topographic Map can be found in Figure 2.

Release Information

NRM2020233512: On July 11, 2020, a high-level alarm failure caused water tank to overflow, causing a release of approximately 280 barrels (bbls) of produced water into the lined secondary containment. All 280 bbls of fluid were recovered from containment. The liner was visually inspected by Devon field staff for any pinholes or punctures, and none were found. Based on this inspection there is no evidence that the spilled fluids left containment.

A Site Map can be found in Figure 4.

Site Assessment and Liner Inspection

On June 13, 2022, after sending the 48-hour notification email, Pima Environmental conducted a liner inspection at this location. We concluded that this liner and containment maintained its integrity and was able to retain the fluids. The liner inspection form and photographic documentation can be found in Appendix C.

Closure Request

After careful review, Pima requests that this incident, NRM2020233512 be closed. Devon has complied with the applicable closure requirements.

Should you have any questions or need additional information, please feel free to contact Tom Bynum at 575-964-7740 or tom@pimaoil.com.

Respectfully,

Tom Bynum

Tom Bynum
Project Manager
Pima Environmental Services, LLC

Attachments

Figures:

- 1- Location Map
- 2- Topographic Map
- 3- Karst Map
- 4- Site Map

Appendices:

- Appendix A- Referenced Water Surveys
- Appendix B- C-141 Form & 48 Hour Notification
- Appendix C- Liner Inspection Form & Photographic Documentation



Pima Environmental Services

Figures:

1-Location Map

2-Topographic Map

3-Karst Map

4-Site Map

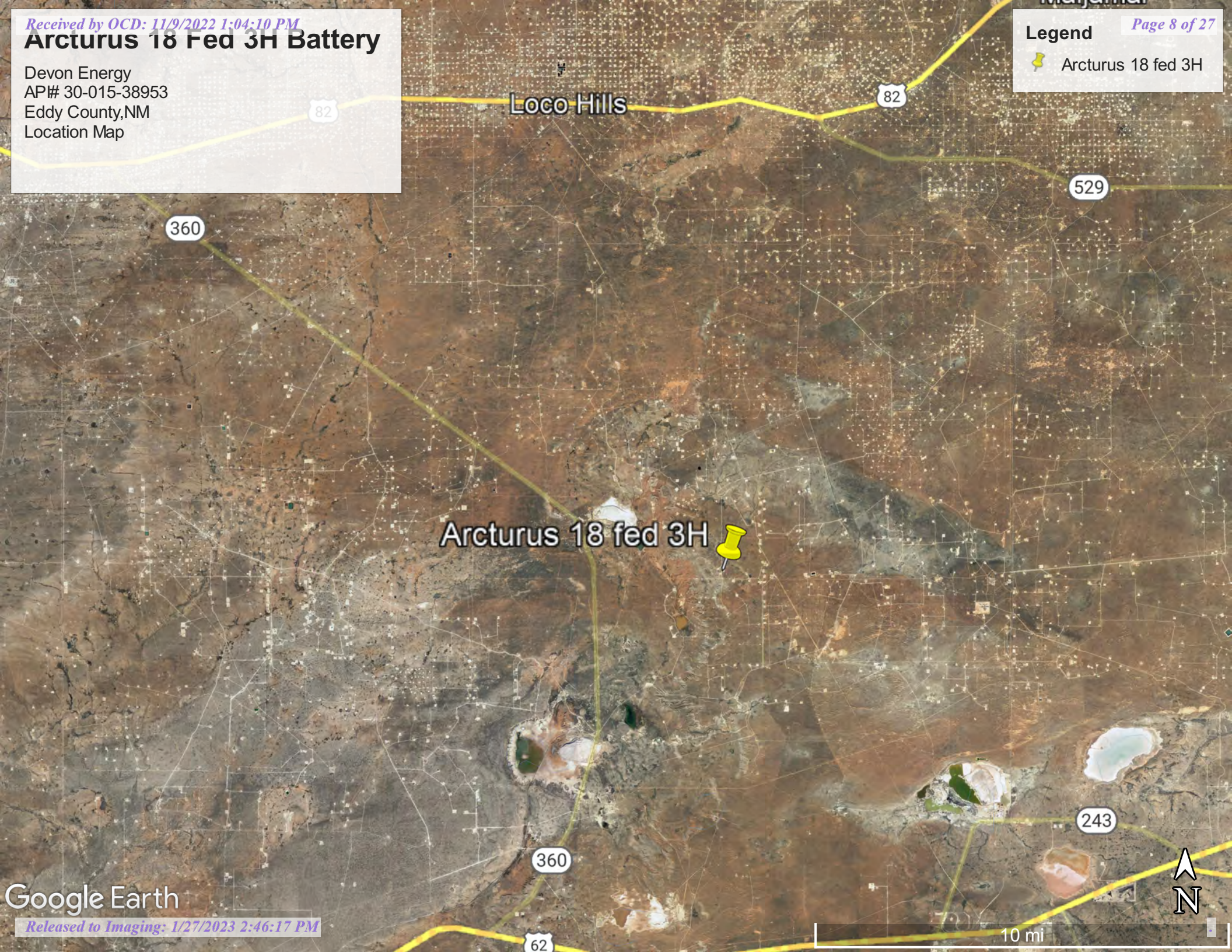
Arcturus 18 Fed 3H Battery

Devon Energy
AP# 30-015-38953
Eddy County, NM
Location Map

Legend



Arcturus 18 fed 3H




Arcturus 18 fed 3H

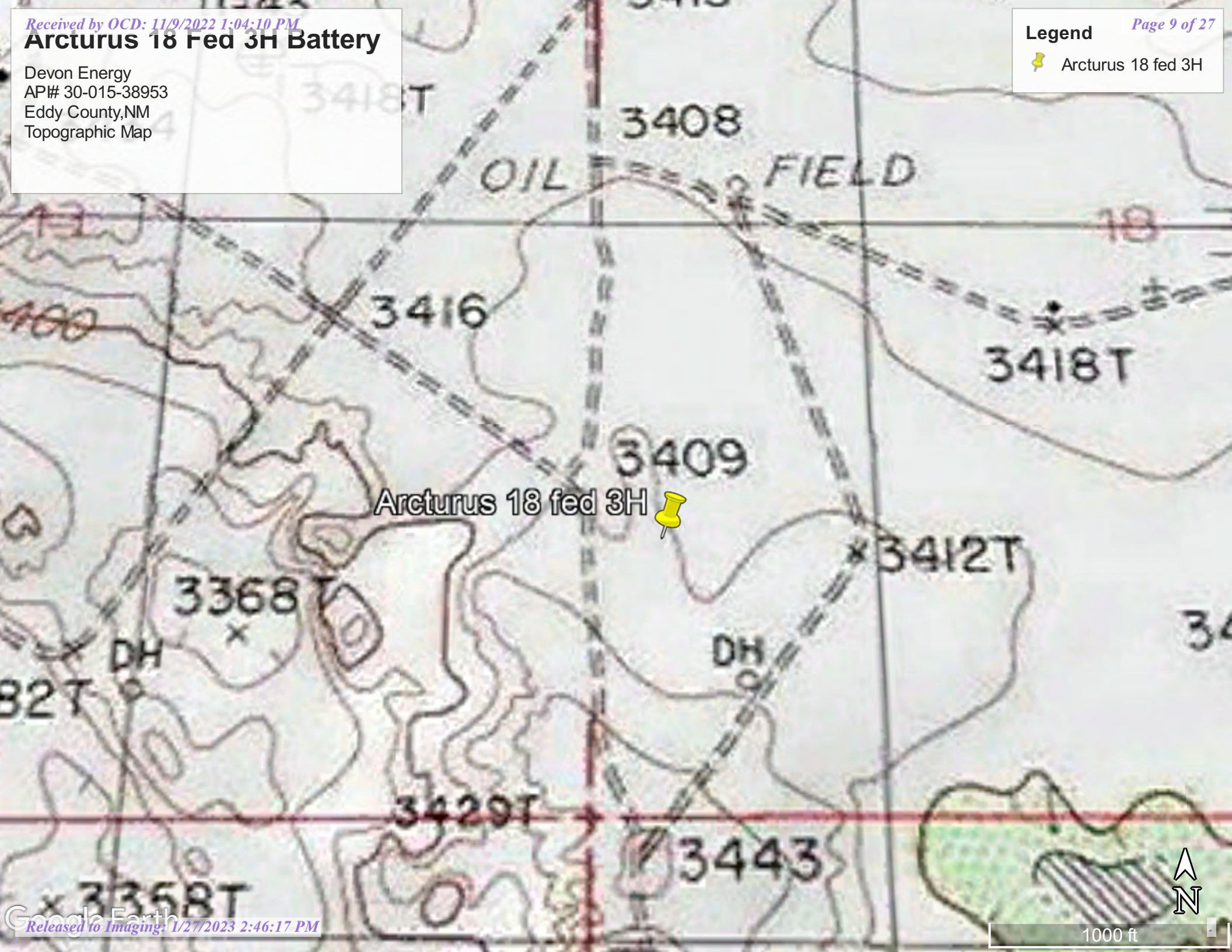


Arcturus 18 Fed 3H Battery

Devon Energy
AP# 30-015-38953
Eddy County, NM
Topographic Map

Legend





 Arcturus 18 fed 3H




Arcturus 18 Fed 3H Battery

Devon Energy
AP# 30-015-38953
Eddy County, NM
Karst Map

Legend

-  Arcturus 18 fed 3H
-  High Karst
-  Low Karst
-  Medium Karst



Arcturus 18 fed 3H 




Arcturus 18 Fed 3H Battery

Devon Energy
AP# 30-015-38953
Eddy County, NM
Site Map

Legend

-  Arcturus 18 fed 3H
-  Spill Area

Arcturus 18 fed 3H 





Pima Environmental Services

Appendix A

Water Surveys:

OSE

USGS



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
CP 00873 POD1		CP	LE	1	1	19	19S	31E		601772	3613147*	566	340	180	160
CP 00357 POD1		CP	ED	4	4	1	24	19S	30E	600667	3612631*	1434	630		
CP 00357 POD2		CP	ED	4	3	1	24	19S	30E	600265	3612627*	1732	630		
CP 00722 POD2		CP	ED	2	1	1	25	19S	30E	600276	3611620*	2477	350	65	285
CP 00822 POD1		CP	LE	4	4	15	19S	30E		598148	3613516*	3485	90		
CP 00647 POD1	O	CP	ED	4	2	2	15	19S	30E	598235	3614621*	3518	200	92	108

Average Depth to Water: **112 feet**

Minimum Depth: **65 feet**

Maximum Depth: **180 feet**

Record Count: 6

UTM NAD83 Radius Search (in meters):

Easting (X): 601629.21

Northing (Y): 3613695.56

Radius: 4000

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

6/30/22 1:13 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

USGS Water Resources

Data Category:

Groundwater

Geographic Area:

United States

GO

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#) 

Groundwater levels for the Nation

 Important: [Next Generation Monitoring Location Page](#)

Search Results -- 1 sites found

site_no list =

- 324241103561201

Minimum number of levels = 1

[Save file of selected sites](#) to local disk for future upload

USGS 324241103561201 18S.30E.26.4140

Available data for this site

Groundwater: Field measurements

GO

Eddy County, New Mexico

Hydrologic Unit Code 13060011

Latitude 32°42'41", Longitude 103°56'12" NAD27

Land-surface elevation 3,432 feet above NAVD88

The depth of the well is 230 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Chinle Formation (231CHNL) local aquifer.

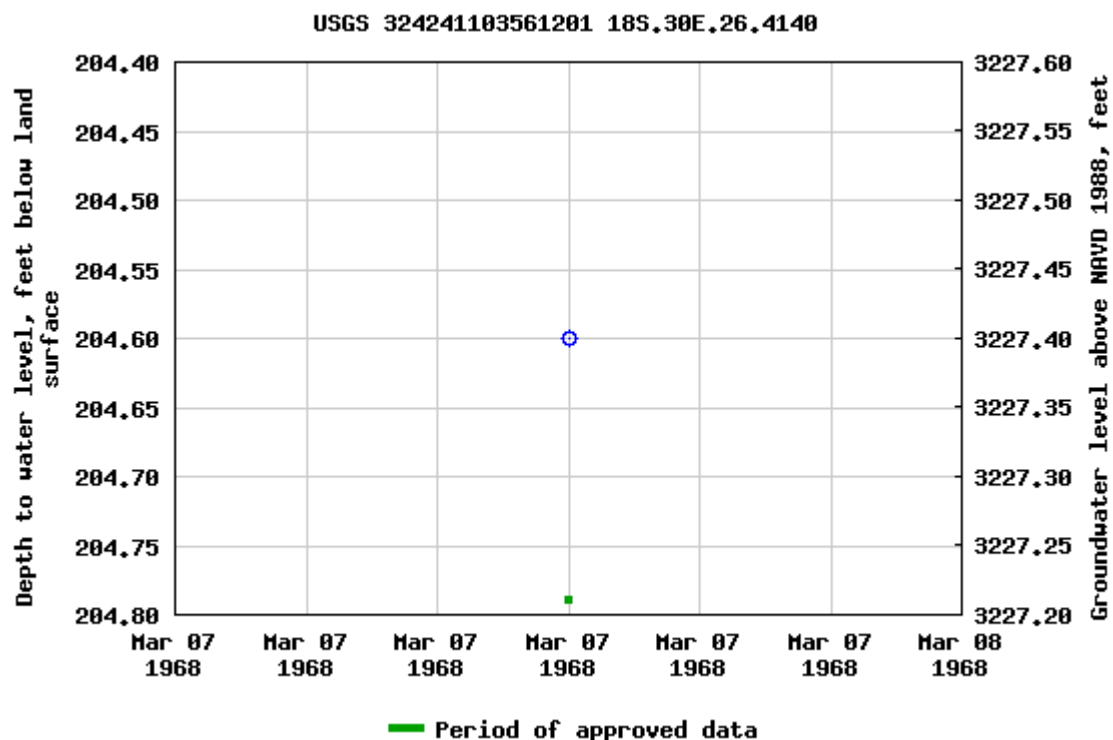
Output formats

[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](#)

[Automated retrievals](#)

[Help](#)

[Data Tips](#)

[Explanation of terms](#)

[Subscribe for system changes](#)

[News](#)

[Accessibility](#)

[FOIA](#)

[Privacy](#)

[Policies and Notices](#)

[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: 2022-06-30 15:06:08 EDT

0.62 0.51 nadww02





Pima Environmental Services

Appendix B

C-141 Form

48-Hour Notification

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

State of New Mexico
Energy Minerals and Natural
Resources Department

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

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

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

Location of Release Source

Latitude _____ Longitude _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☐ Private (Name: _____)

Nature and Volume of Release

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

<input type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Incident ID	
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Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

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

<input type="checkbox"/> The source of the release has been stopped.	
<input type="checkbox"/> The impacted area has been secured to protect human health and the environment.	
<input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.	
<input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.	
If all the actions described above have <u>not</u> been undertaken, explain why:	
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.	
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Printed Name: _____	Title: _____
Signature: <u>Kendra DeHoyos</u>	Date: _____
email: _____	Telephone: _____
<u>OCD Only</u>	
Received by: _____	Date: _____

Spills In Lined Containment	
Measurements Of Standing Fluid	
Length(Ft)	25
Width(Ft)	110
Depth(in.)	10
Total Capacity without tank displacements (bbls)	408.16
No. of 500 bbl Tanks In Standing Fluid	4
No. of Other Tanks In Standing Fluid	1
OD Of Other Tanks In Standing Fluid(feet)	12
Total Volume of standing fluid accounting for tank displacement.	279.42

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Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____



Gio PimaOil <gio@pimaoil.com>

Arcturus 18 3H Liner Inspection

1 message

Gio PimaOil <gio@pimaoil.com>

Thu, Jun 9, 2022 at 10:56 AM

To: ocdonline@state.nm.us, Tom Pima Oil <tom@pimaoil.com>

Good Morning,

Pima Environmental would like to notify you that we will be conducting a liner Inspection at the Arcturus 18 Fed 3H Battery for incident NRM2020233512. Pima personnel are scheduled to be on site for this Inspection event at approximately 9:00 a.m. On Monday, June 13, 2022. If you have any questions or concerns, please let me know. Thank you.

Gio Gomez
Environmental Project Manager
cell-806-782-1151
Office- 575-964-7740
Pima Environmental Services, LLC.



Pima Environmental Services

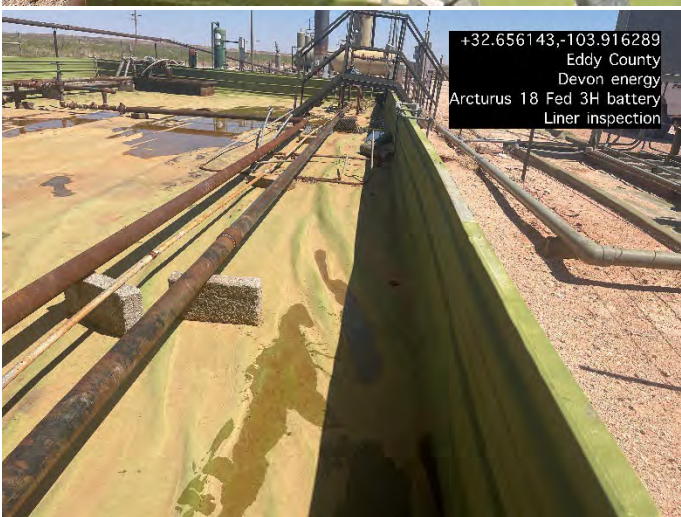
Appendix C

Photographic Documentation

Liner Inspection Form



SITE PHOTOGRAPHS LINER INSPECTION





Pima Environmental Services, LLC

Liner Inspection FormCompany Name: Devon EnergySite: Arcturus 18 Federal 3H BatteryLat/Long: 32.656229, -103.916297NMOCD Incident ID
& Incident Date: NRM2020233512 7/11/20202-Day Notification
Sent: via Email by Gio Gomez 6/9/2022Inspection Date: 6/13/2022

Liner Type: Earthen w/liner Earthen no liner Polystar

 Steel w/poly liner Steel w/spray epoxy No Liner

Other: _____

Visualization	Yes	No	Comments
Is there a tear in the liner?		X	
Are there holes in the liner?		X	
Is the liner retaining any fluids?		X	
Does the liner have integrity to contain a leak?	X		

Comments: _____

Inspector Name: Ned Rogers Inspector Signature: Ned Rogers

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
District IV
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 157386

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 157386
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
rhamlet	We have received your closure report and final C-141 for Incident #NRM2020233512 ARCTURUS 18 FED 3H BATTERY, thank you. This closure is approved.	1/27/2023