

209 W McKay St Carlsbad, New Mexico 88220 Tel. 432.701.2159 www.ntgenvironmental.com

September 1, 2023

Mike Bratcher
District Supervisor
Oil Conservation Division, District 2
811 S. First Street
Artesia, New Mexico 88210

**Re:** Closure Report

Burton Flat Deep Unit 44 Devon Energy Production Company Site Location: Unit F, S03, T21S, R27E (Lat 32.5117073°, Long -104.1806793°)

Eddy County, New Mexico Incident ID: nAB1821343703

Mr. Bratcher:

On behalf of Devon Energy Production Company (Devon), New Tech Global Environmental, LLC (NTGE) has prepared this letter to document site assessment and remedial action activities at the Burton Flat Deep Unit 44 (Site). The Site is located approximately 17.25 miles northeast of Carlsbad, New Mexico in Eddy County (Figures 1 and 2).

#### **Background**

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the release, discovered on July 17, 2018, was caused by a flange on the inlet side of the H-pump had developed a leak, and released approximately 40.63 barrels (bbls) of produced water, of which 30 bbls were recovered. The release was contained within the liner surrounding the tank battery. Upon discovery, the H-pump was shut-in, and the area was secured. The release is shown on Figure 3. The initial C-141 form is attached.

#### **Site Characterization**

The site is located within a high karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there is one known water source within a ½-mile radius of the location. The nearest identified well is located 0.14 miles north of the Site in Sec 30 T21S R27E. The well was drilled in 2003 to 52 feet below ground surface (bgs) with depth to water at 14 feet bgs. A site characterization information and the associated USGS and NMSEO summary report is attached.

#### Regulatory Criteria

In accordance with the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria are applicable to the Site.

- Benzene: 10 milligrams per kilogram (mg/kg).
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg.
- TPH: 100 mg/kg (GRO + DRO + MRO).
- Chloride: 600 mg/kg

Mr. Mike Bratcher September 1, 2023 Page 2 of 2

## **Liner Inspection**

On August 16th, 2023, NTGE conducted site assessment activities to assess the integrity and state of the tank battery's secondary containment liner. Upon inspection it was noted that the liner was intact with no visible holes or breaches, and free of any standing fluids.

## **Closing**

Based on the initial response and subsequent site assessment activities, the Site is compliant, and no further actions are required. A copy of the final C- 141 is attached, and Devon formally requests a no further action designation for the Site. If you have any questions regarding this report or need additional information, please contact us at 432-701-2159.

Sincerely,

**NTG Environmental** 

Ethan Sessums Project Manager

Attachments:

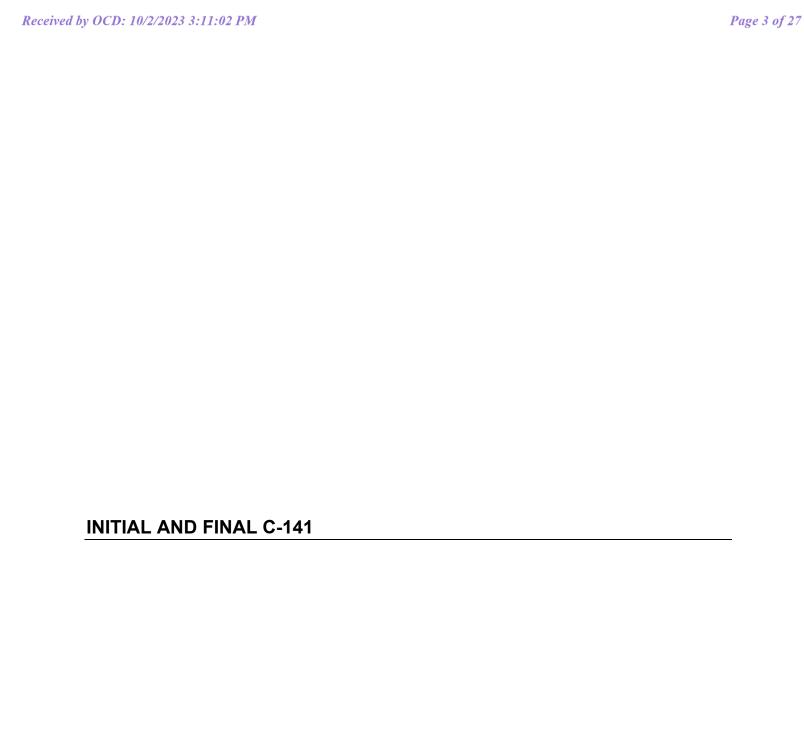
Initial And Final C-141

Site Characterization Information

**Figures** 

Photographic Log





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Final Report

<u>District I</u> 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

Section

3

Type of Release Produced Water

Source of Release Inlet Line

Township

**21S** 

Range

27E

nAB1821343703

Unit Letter

F

# State of New Mexico **Energy Minerals and Natural Resources**

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

Form C-141 Revised April 3, 2017

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

# **Release Notification and Corrective Action OPERATOR** Initial Report

Volume of Release 40.63 BBLS

Date and Hour of Occurrence

7/17/2018 @ 9:15 AM MST

Name of Company Devon Energy Production Company #6137 Contact Aaron Kidd; Foreman Technical Services Address 6488 Seven Rivers Hwy Artesia, NM 88210 Telephone No. 575-748-3371 Facility Name Burton Flat Deep Unit 44 Facility Type Salt Water Disposal Surface Owner Federal Mineral Owner Federal API No.30-015-32274

**LOCATION OF RELEASE** 

Feet from the

North/South Line Feet from the East/West Line County Eddy

Volume Recovered 30 BBLS

Date and Hour of Discovery

7/17/2018 @ 9:15 AM MST

OCD Rec'd:7/31/18

Latitude 32.635483 N Longitude -104.071270 W NAD83

NATURE OF RELEASE

Was Immediate Notice Given?	If YES, To Whom?		
	ENMRD Mike Bratcher and Maria	Pruett	
	BLM Shelly Tucker		
By Whom? Brett Fulks; EHS Professional	Date and Hour		
	OCD and BLM 7/18/2018 @ 3:51	PM MST	
Was a Watercourse Reached?	If YES, Volume Impacting the Wa		
☐ Yes ⊠ No	N/A		
If a Watercourse was Impacted, Describe Fully.* N/A	···		
Describe Cause of Problem and Remedial Action Taken.* Lease operator discovered a flange on the inlet side of the H-pump had of	leveloped a leak. Pumps were shut off	and the leak v	vas isolated immediately.
Describe Area Affected and Cleanup Action Taken.*  Water released in containment; scheduled recovery of fluids with Vac tree	uck. (PW: Spilled – 40.63 bbls., Rec	30 bbls., Lost	- 10 bbls.)
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 laws and/or regulations.			ses which may endanger ve the operator of liability surface water, human health
	OIL CONSER'	VATION I	DIVISION
Signature: Tamala J. Robison			
Printed Name: Tamala J. Robison	Approved by Environmental Specialist: Maria Pruell		
Title: Field Admin Support	Approval Date: 8/01/2018	Expiration D	ate: n/a
E-mail Address: Tamala.Robison@dvn.com	Conditions of Approval:		Attacked A O O =
Date: 7/25/2018 Phone: 575-748-3371	See Attached		7112 2 RP-4885
Attach Additional Sheets If Necessary			

Oil Conservation Division

	Page 5 of	27
Incident ID	nAB1821343703	
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?	<u>5</u> 5' (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 <b>not</b> 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 ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 wel	ls.
☐ 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	
☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	

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.

Received by OCD: 10/2/2023 3:11:02 PM Form C-141 State of New Mexico Page 4 Oil Conservation Division

	Page 6 of	27
Incident ID	nAB1821343703	
District RP		
Facility ID		
Application ID		

I hereby certify that the information given above is true and complete to the regulations all operators are required to report and/or file certain release not public health or the environment. The acceptance of a C-141 report by the failed to adequately investigate and remediate contamination that pose a thr addition, OCD acceptance of a C-141 report does not relieve the operator of and/or regulations.	oCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In
Printed Name: Dale Woodall	Title: Env. Professional
Signature: Dale Woodall	Date:10/2/2023
email:dale.woodall@dvn.com	Telephone: 575-748-1838
OCD Only	
Received by:	Date:

Page 7 of 27

Incident ID	nAB1821343703
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 it	ems 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	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 remhuman health or the environment. In addition, OCD acceptance of a compliance with any other federal, state, or local laws and/or regular restore, reclaim, and re-vegetate the impacted surface area to the cor accordance with 19.15.29.13 NMAC including notification to the Oce Printed Name:  Dale Woodall  Signature: Dala Woodall	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially notitions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete.  Title:Env. Professional
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: Ashley Maxwell	Date:10/31/2023
Printed Name: Ashley Maxwell	Title: Environmental Specialist



# **OCD Well Locations**



4/26/2023, 8:02:02 AM

Wells - Large Scale

Salt Water Injection, Active

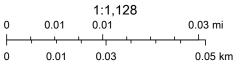
Karst Occurrence Potential PLSS Second Division

High





**PLSS First Division** 



BLM, OCD, New Mexico Tech, Oil Conservation Division of the New Mexico Energy, Minerals and Natural Resources Department., Esri Community Maps Contributors, New Mexico State University, Texas Parks & Wildlife, © OpenStreetMap, Microsoft, CONANP, Esri, HERE, Garmin, SafeGraph,

# **OSE POD Locations Map**



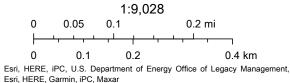
4/26/2023, 8:52:53 AM **GIS WATERS PODs** 

New Mexico State Trust Lands

Pending

**Both Estates** 

OSE District Boundary SiteBoundaries Released to Imaging: 10/31/2023 3:34:24 PM





# New Mexico Office of the State Engineer

# **Water Right Summary**

WR File Number: CP 01962 Subbasin: CP Cross Reference: -

Primary Purpose: MON MONITORING WELL

**Primary Status:** PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Owner: DEVON ENERGY
Contact: DALE WOODALL

#### **Documents on File**

Status	From/

Trn# Doc File/Act 1 2 Transaction Desc. To Acres Diversion Consumptive

<u>745149 EXPL 2023-03-29</u> PMT APR CP 01962 POD1 T 0 0

#### **Current Points of Diversion**

(NAD83 UTM in meters)

POD Number Well Tag Source 64Q16Q4Sec Tws Rng X Y Other Location Desc

<u>CP 01962 POD1</u> NA 2 2 4 28 19S 29E 587025 3610641

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.

4/26/23 7:50 AM WATER RIGHT SUMMARY



# New Mexico Office of the State Engineer

# **Water Right Summary**

get image list

WR File Number: CP 01932 Subbasin: CP Cross Reference: -

Primary Purpose: MON MONITORING WELL

**Primary Status:** PMT PERMIT

Total Acres: Subfile: - Header: -

Total Diversion: 0 Cause/Case: -

Owner: DEVON ENERGY
Contact: DALE WOODALL

**Documents on File** 

Status From/

Trn# Doc File/Act 1 2 Transaction Desc. To Acres Diversion Consumptive

© get images 738670 EXPL 2022-12-08 PMT APR CP 01932 POD1 T 0 0

**Current Points of Diversion** 

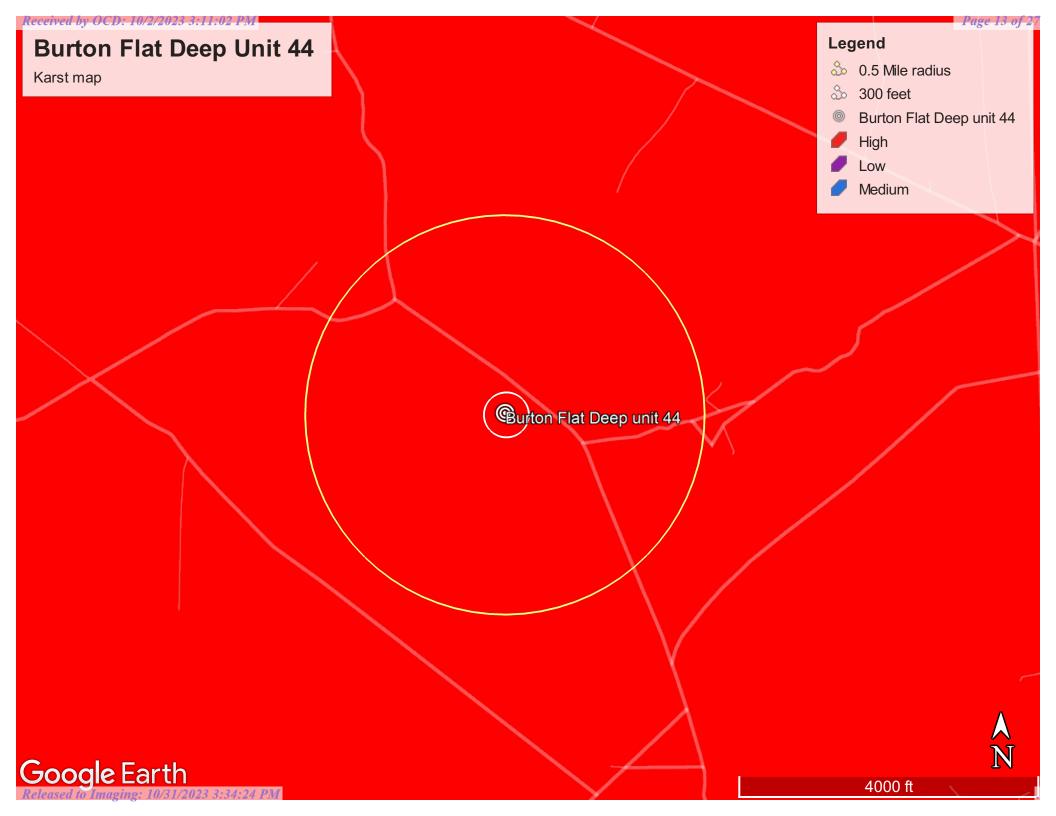
(NAD83 UTM in meters)

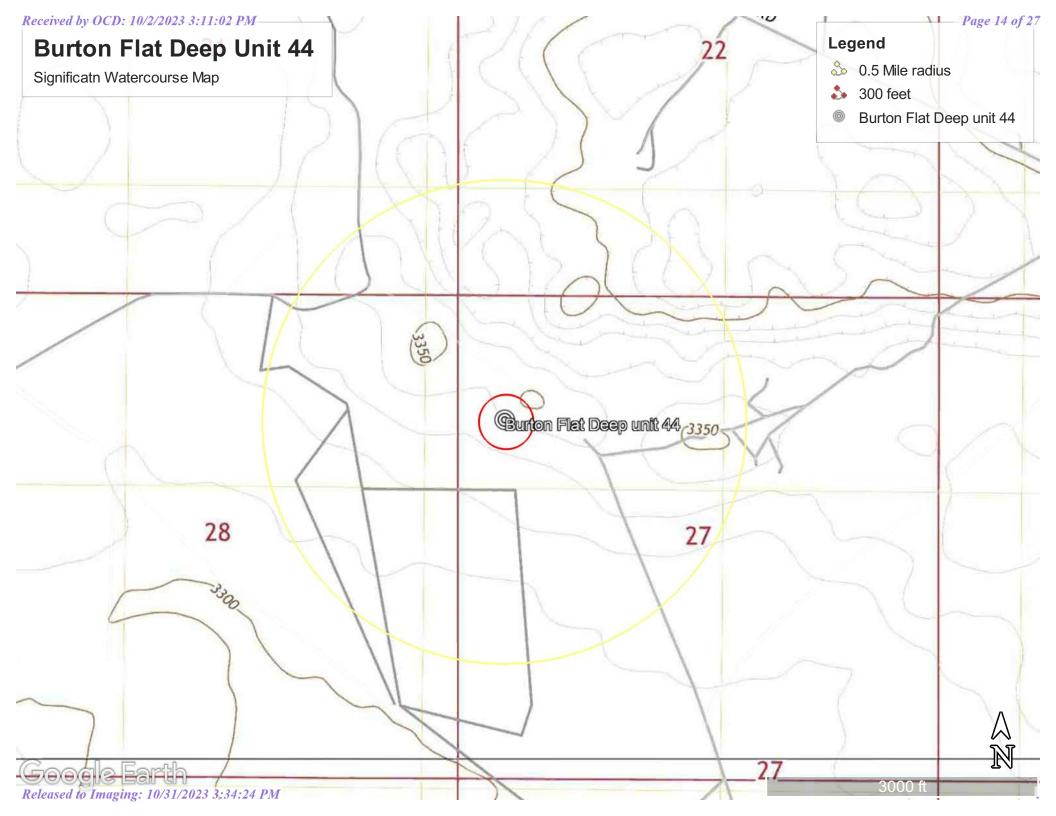
POD Number Well Tag Source 64Q16Q4Sec Tws Rng X Y Other Location Desc

<u>CP 01932 POD1</u> NA 3 1 1 27 19S 29E 587174 3611427

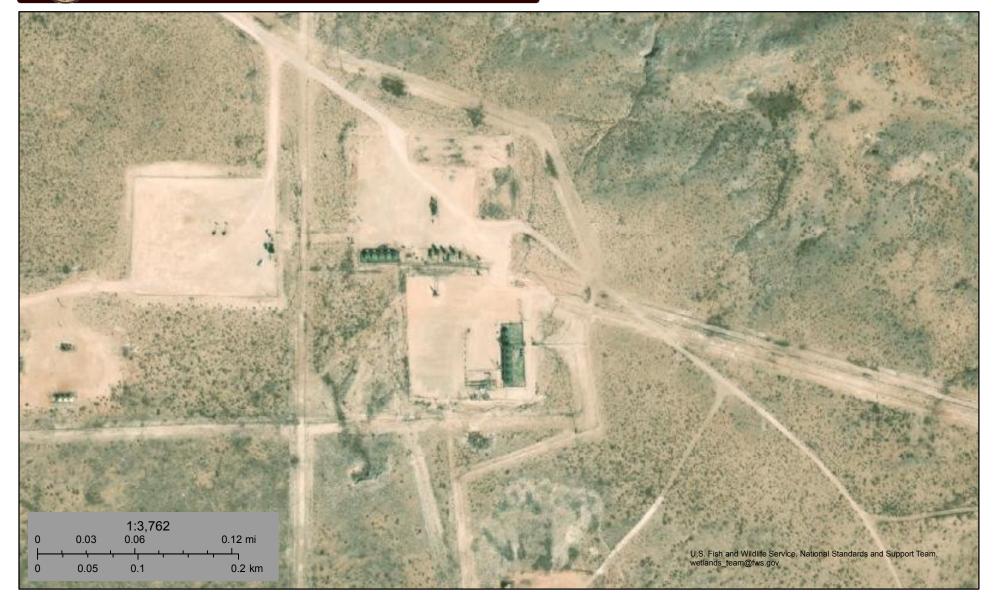
The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

4/26/23 7:50 AM WATER RIGHT SUMMARY





# **Burton 44**



April 26, 2023

#### Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

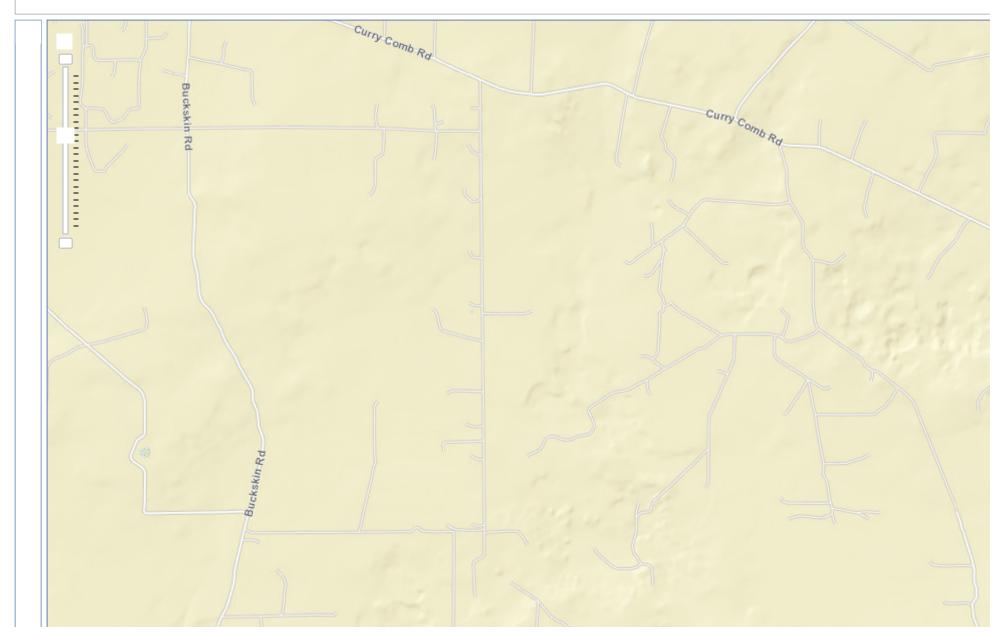
Other

Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.



# **National Water Information System: Mapper**



# National Flood Hazard Layer FIRMette





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

Without Base Flood Elevation (BFE) With BFE or Depth Zone AE, AO, AH, VE, AR SPECIAL FLOOD HAZARD AREAS Regulatory Floodway 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X **Future Conditions 1% Annual** Chance Flood Hazard Zone X Area with Reduced Flood Risk due to Levee. See Notes. Zone X OTHER AREAS OF FLOOD HAZARD Area with Flood Risk due to Levee Zone D NO SCREEN Area of Minimal Flood Hazard Zone X Effective LOMRs OTHER AREAS Area of Undetermined Flood Hazard Zone D - - - Channel, Culvert, or Storm Sewer **GENERAL** STRUCTURES | LILLI Levee, Dike, or Floodwall 20.2 Cross Sections with 1% Annual Chance 17.5 Water Surface Elevation **Coastal Transect** 

---- 513 ---- Base Flood Elevation Line (BFE) Limit of Study Jurisdiction Boundary **Coastal Transect Baseline** OTHER **Profile Baseline FEATURES** Hydrographic Feature

> Digital Data Available No Digital Data Available

Unmapped

MAP PANELS

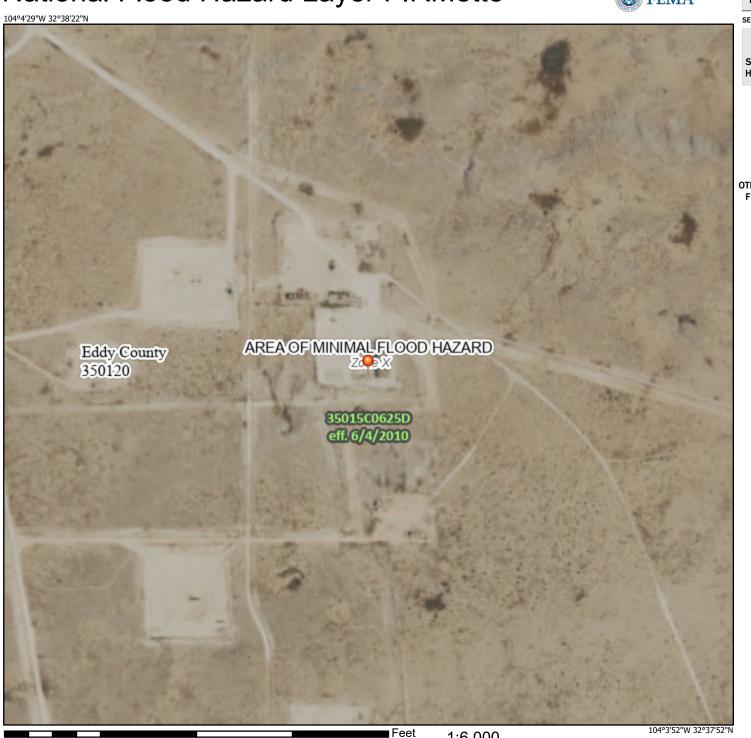
an authoritative property location. This map complies with FEMA's standards for the use of

The pin displayed on the map is an approximate point selected by the user and does not represent

digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 4/26/2023 at 9:58 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

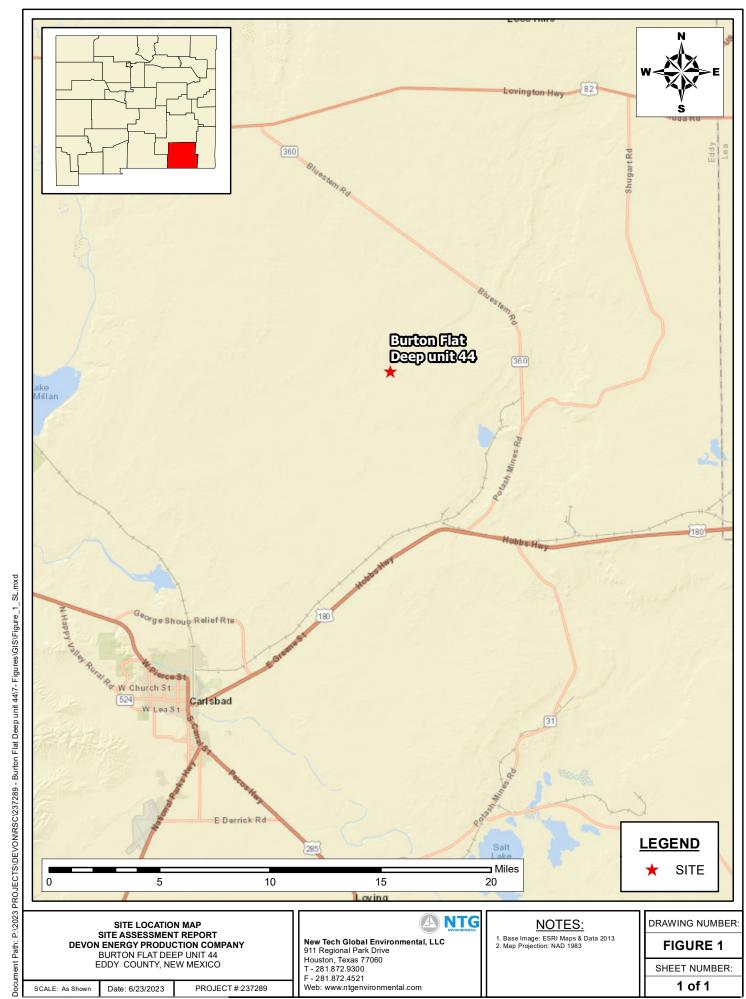
This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory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

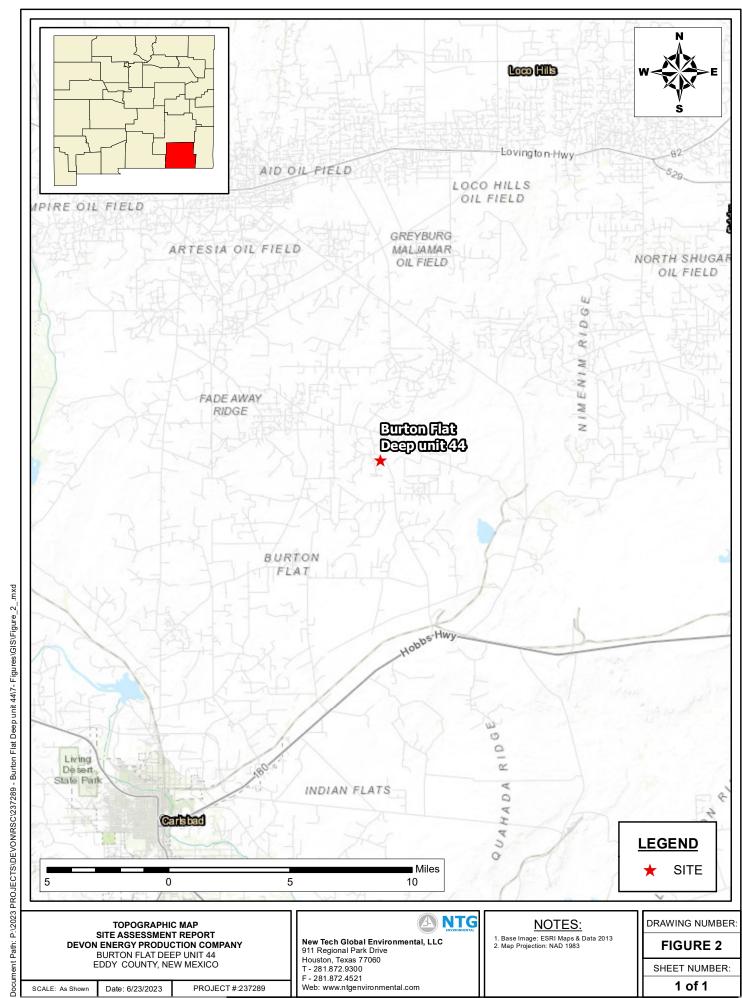


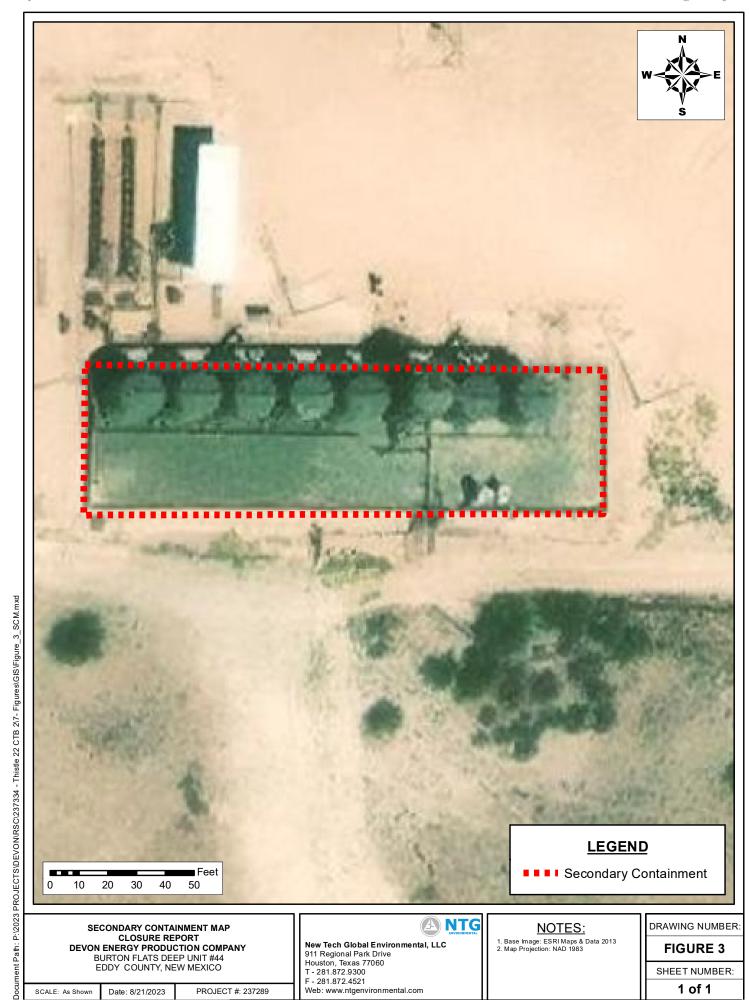
2.000

1:6.000

# **FIGURES**







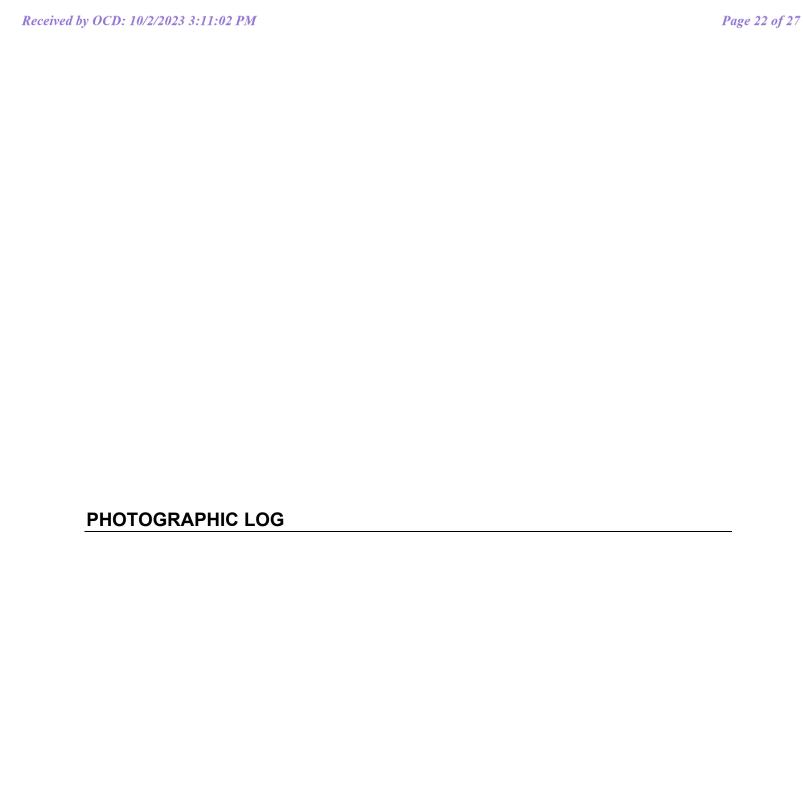
SCALE: As Shown Date: 8/21/2023 PROJECT

Released to Imaging: 10/31/2023 3:34:24 PM

PROJECT #: 237289

1 of 1

SHEET NUMBER:



**Devon Energy Production Company** 

## Photograph No. 1

Facility:

Burton Flat Deep Unit 44

County:

Eddy County, New Mexico

**Description:** View of liner.



## Photograph No. 2

Facility:

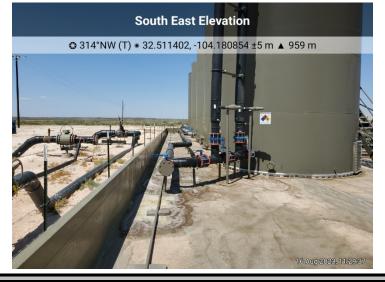
Burton Flat Deep Unit 44

County:

Eddy County, New Mexico

**Description:** View of liner.

, ,,



# Photograph No. 3

Facility:

Burton Flat Deep Unit 44

County:

Eddy County, New Mexico

**Description:** View of liner.



## **Devon Energy Production Company**

## Photograph No. 4

Facility:

Burton Flat Deep Unit 44

County:

Eddy County, New Mexico

**Description:** View of liner.



## Photograph No. 5

Facility:

Burton Flat Deep Unit 44

County:

Eddy County, New Mexico

**Description:** View of liner.



#### Photograph No. 6

Facility:

Burton Flat Deep Unit 44

County:

Eddy County, New Mexico

Description:

View of liner.



**Devon Energy Production Company** 

## Photograph No. 7

Facility:

Burton Flat Deep Unit 44

County:

Eddy County, New Mexico

**Description:** View of liner.



## Photograph No. 8

Facility:

Burton Flat Deep Unit 44

County:

Eddy County, New Mexico

**Description:** View of liner.



# Photograph No. 9

Facility:

Burton Flat Deep Unit 44

County:

Eddy County, New Mexico

**Description:** 

View of liner.



**Devon Energy Production Company** 

## Photograph No. 10

Facility:

Burton Flat Deep Unit 44

County:

Eddy County, New Mexico

**Description:** View of liner.



## Photograph No. 11

Facility:

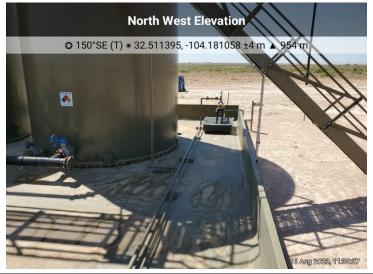
Burton Flat Deep Unit 44

County:

Eddy County, New Mexico

**Description:** 

View of liner.



## Photograph No. 12

Facility:

Burton Flat Deep Unit 44

County:

Eddy County, New Mexico

**Description:** 

View of liner.



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 271498

#### **CONDITIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	271498
	Action Type:
	[C-141] Release Corrective Action (C-141)

#### CONDITIONS

Created By	Condition	Condition Date
amaxwel	I None	10/31/2023