

State of New Mexico
Oil Conservation Division

Incident ID	NRM2023460138
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: Ryan DeLong Title: Regulatory Manager
 Signature:  Date: 8/5/2021
 email: rdelong@titusoil.com Telephone: 405-664-5188

OCD Only

Received by: Robert Hamlet Date: 8/5/2022

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: 8/5/2022

Printed Name: Robert Hamlet Title: Environmental Specialist - Advanced



Pima Environmental Services

August 4, 2022

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

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

**RE: Liner Inspection and Closure Report
Renegade BGP Federal #001H
API No. 30-025-39768
GPS: Latitude 32.04874 Longitude -103.41406
UL- D, Section 18, Township 26S, Range 35E
NMOCD Reference No. NRM2023460138**

Titus Oil & Gas Production, LLC (Titus) has contracted Pima Environmental Services, LLC (Pima) to prepare this closure report for a crude oil release that happened at the Renegade BGP Federal #001H (Renegade). An initial C-141 was submitted on August 21, 2020, and can be found in Appendix B. This incident was assigned Incident ID NRM2023460138, by the New Mexico Oil Conservation Division (NMOCD).

Site Information and Site Characterization

The Renegade is located approximately thirteen (13) miles southwest of Jal, NM. This spill site is in Unit D, Section 18, Township 26S, Range 35E, Latitude 32.04874 Longitude -103.39768, Lea 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 300 feet below grade surface (BGS). According to the United States Geological Survey well water data, depth to the nearest groundwater in this area is 224 feet BGS. See Appendix A for referenced water surveys. The Renegade is in a low karst area (Figure 3). A Topographic Map can be found in Figure 2.

Release Information

NRM2023460138: On August 7, 2020, A pin hole formed in the base of a heater treater located adjacent to the tank battery. Heater treater was then isolated, allowing for a vac-truck to recover fluids released. Approximately 15 barrels (bbls) of crude oil was released into a lined, gravel-covered secondary containment. A vacuum truck was dispatched and recovered all 15 bbls of fluid from the lined containment.

A Site Map can be found in Figure 4.

Site Assessment and Liner Inspection

On August 29, 2020, after sending the 48-hour notification via email, Titus removed the gravel from the spill area of the containment then conducted a liner inspection at this location. Two older patches were found that were not in the immediate spill area. These patches were inspected anyway, and the conclusion was their adhesive seals were completely intact maintaining the patches' integrities. 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 NRM2023460138 be closed. Titus 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

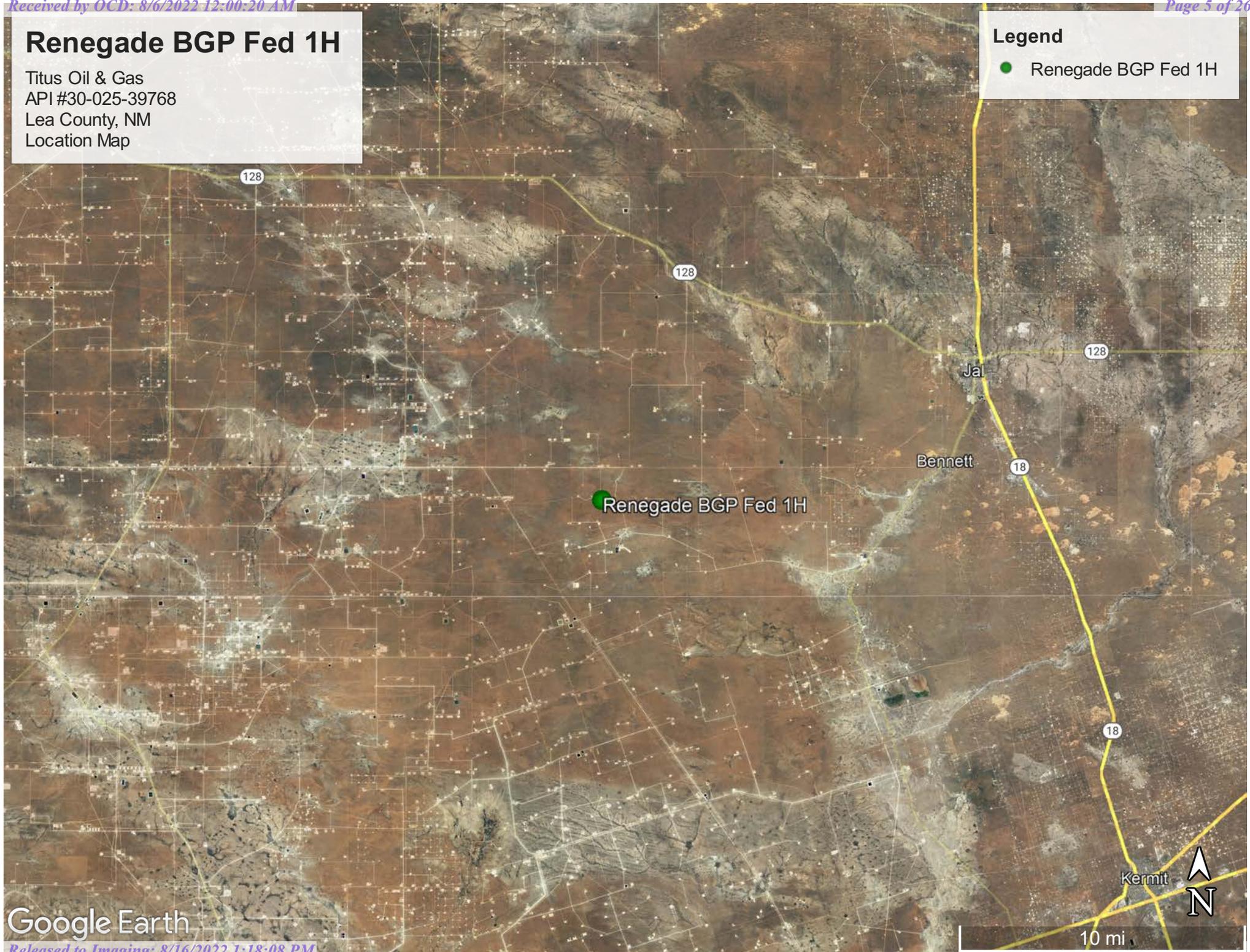
3 - Karst Map

4 - Site Map

Renegade BGP Fed 1H
 Titus Oil & Gas
 API #30-025-39768
 Lea County, NM
 Location Map

Legend

- Renegade BGP Fed 1H



Google Earth

Kermit

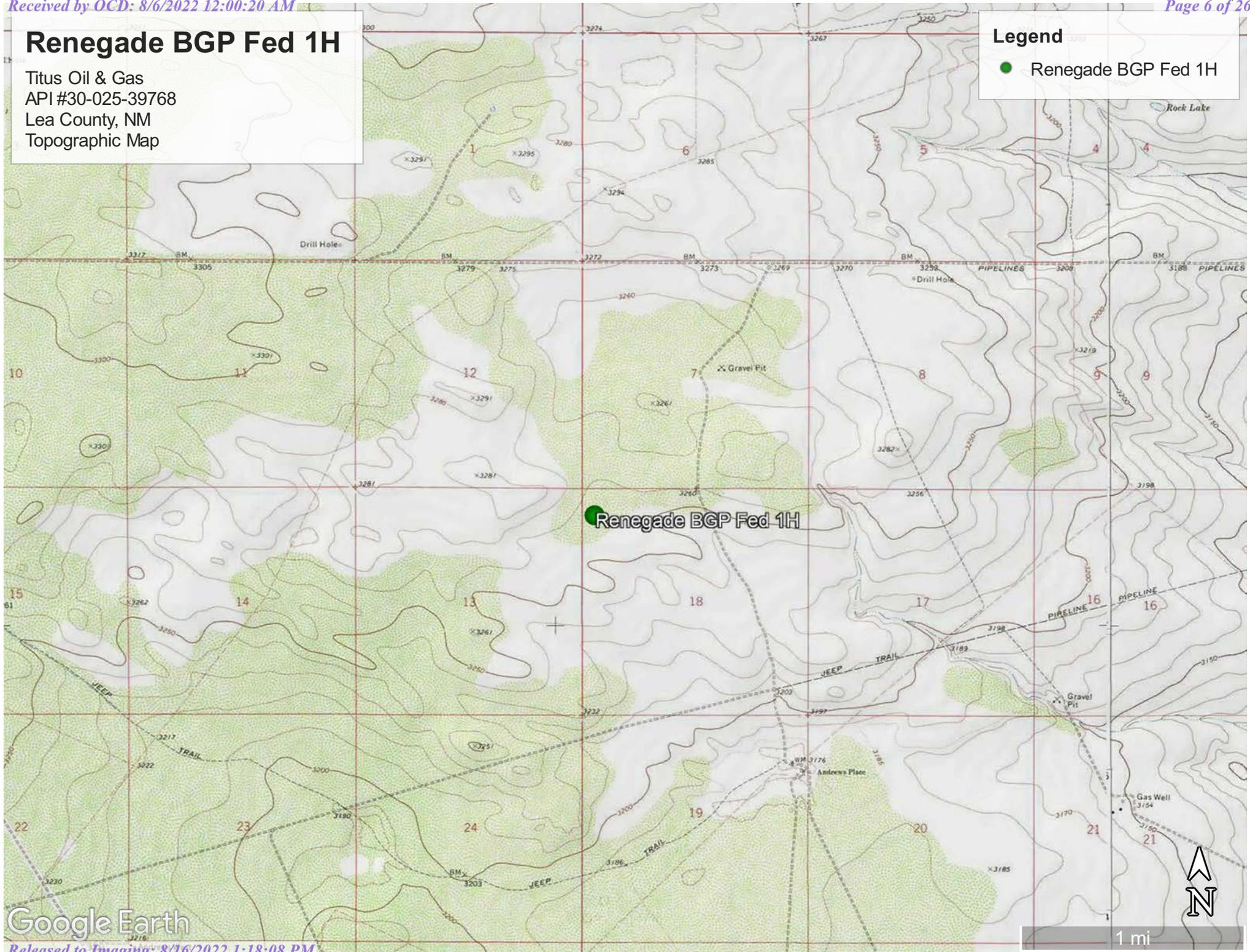
10 mi

Renegade BGP Fed 1H

Titus Oil & Gas
API #30-025-39768
Lea County, NM
Topographic Map

Legend

- Renegade BGP Fed 1H

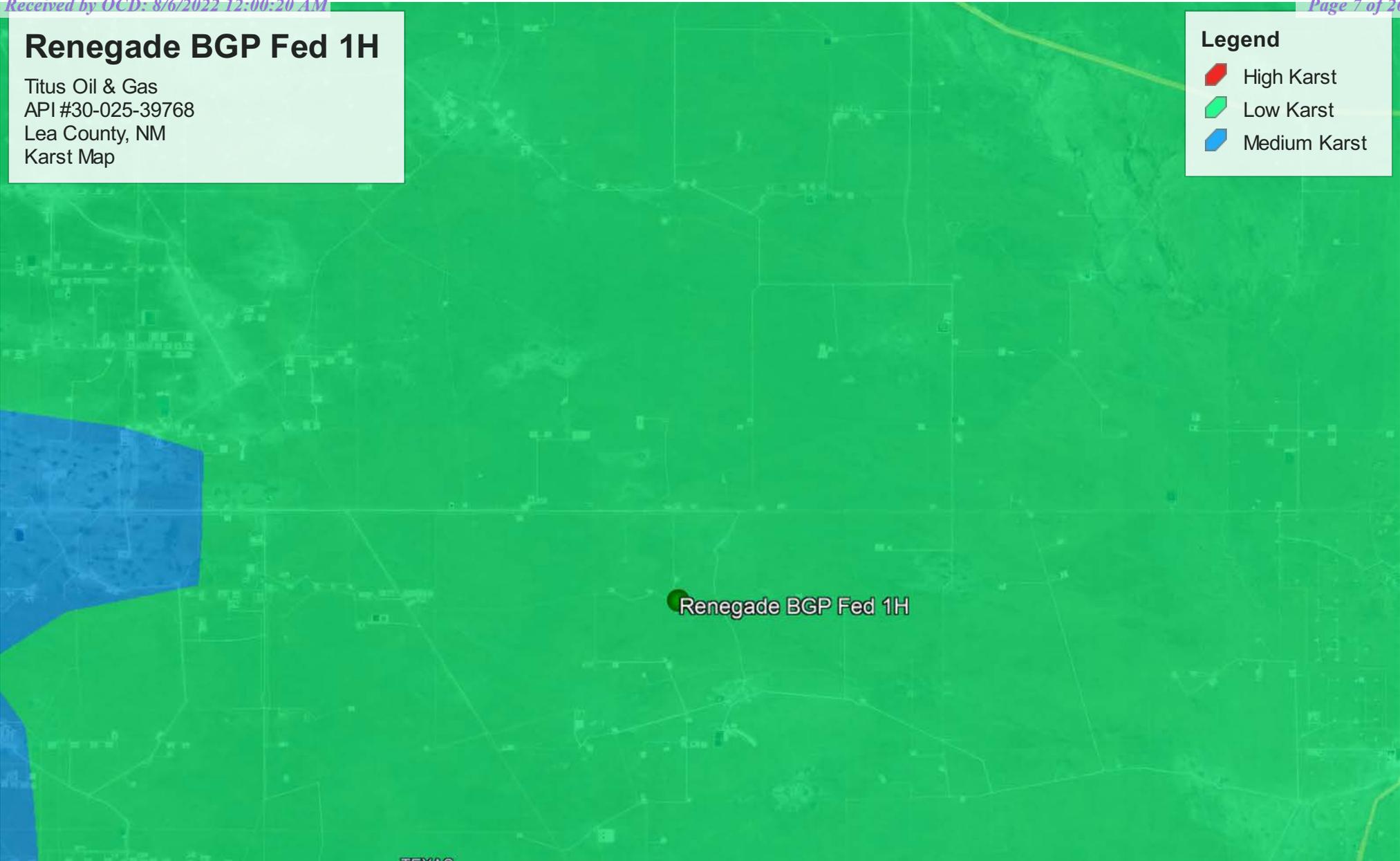


Renegade BGP Fed 1H

Titus Oil & Gas
API #30-025-39768
Lea County, NM
Karst Map

Legend

-  High Karst
-  Low Karst
-  Medium Karst



Renegade BGP Fed 1H

TEXAS



Google Earth



6 mi

Renegade BGP Fed 1H

Titus Oil & Gas
API #30-025-39768
Lea County, NM
Site Map

Legend

 Spill Area

 32.049019, -103.414490

 Renegade BGP Fed 1H





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	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
C 04601 POD1	CUB	LE		3	4	3	05	26S	35E	651710	3548919	2801			
C 04583 POD1	CUB	LE		3	3	3	15	26S	34E	644920	3545643	4981	55		
C 02299	CUB	LE		4	2	4	24	25S	34E	649517	3554125	7190	350	300	50
CP 01305 POD1	CP	LE		1	4		31	25S	37E	655628	3551065	7198	420	230	190

Average Depth to Water: **265 feet**
 Minimum Depth: **230 feet**
 Maximum Depth: **300 feet**

Record Count: 4

UTMNAD83 Radius Search (in meters):

Easting (X): 649730.49

Northing (Y): 3546937.38

Radius: 9000

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.



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 =

- 320138103181201

Minimum number of levels = 1

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

USGS 320138103181201 26S.36E.19.14224

Available data for this site

Groundwater: Field measurements

GO

Lea County, New Mexico

Hydrologic Unit Code 13070007

Latitude 32°01'53.1", Longitude 103°18'15.0" NAD83

Land-surface elevation 2,952.00 feet above NGVD29

The depth of the well is 700 feet below land surface.

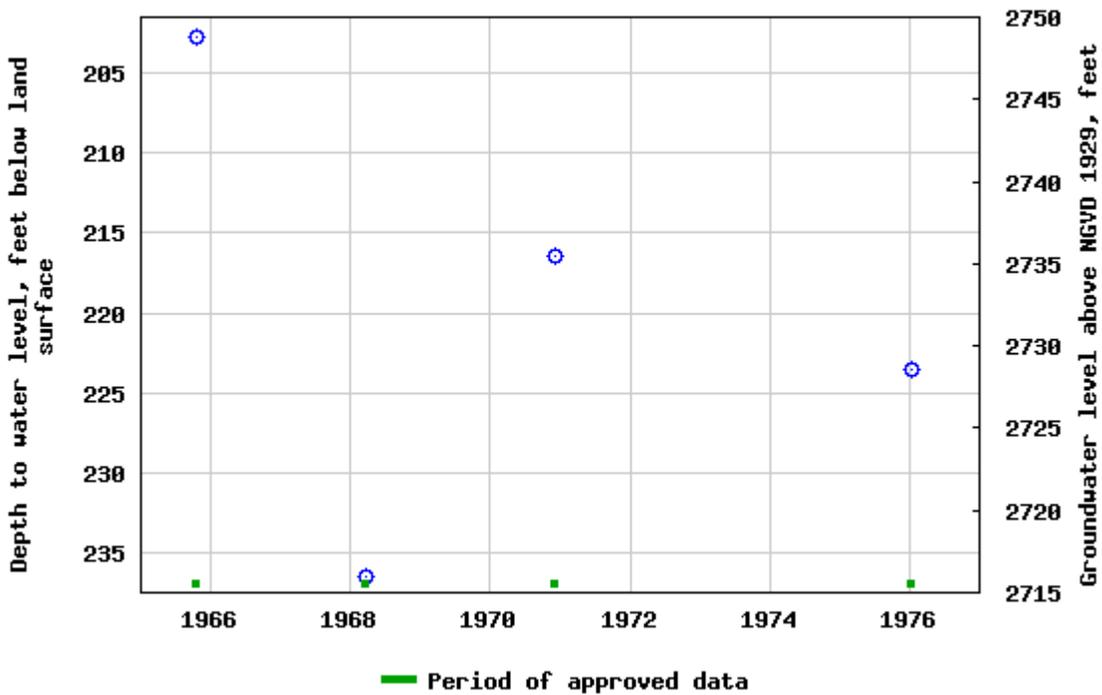
This well is completed in the Other aquifers (N9999OTHER) national aquifer.

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

Output formats

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

USGS 320138103181201 26S.36E.19.14224



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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[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: 2022-08-04 16:38:12 EDT

0.55 0.47 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	NRM2023460138
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party Titus Oil and Gas, LLC	OGRID 373986
Contact Name Evan Hinkel	Contact Telephone (817) 852-6885
Contact email Ehinkel@titusoil.com	Incident # (assigned by OCD)
Contact mailing address 420 Throckmorton St., Suite 1150	

Location of Release Source

Latitude 32.04874 Longitude -103.41406
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Renegade BGP Federal #001H	Site Type Production Facility
Date Release Discovered 08/07/2020	API# (if applicable) 30-025-39768

Unit Letter	Section	Township	Range	County
D	18	26S	35E	Lea

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 checked="" type="checkbox"/> Crude Oil	Volume Released (bbls) 15bbls	Volume Recovered (bbls) 15bbls
<input type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride 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

Pin hole formed in the base of a heater treater located adjacent to the tank battery. Heater Treater was then isolated, allowing for a vac-truck to recover fluids released.

State of New Mexico
Oil Conservation Division

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Was this a major release as defined by 19.15.29.7(A) NMAC? <input type="checkbox"/> Yes <input checked="" 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 checked="" type="checkbox"/> The source of the release has been stopped. <input checked="" type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input checked="" 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: Crew needed to be scheduled to remove stained pea gravel inside of facility. All free liquids have been recovered from the release inside the lined containment. Stained pea gravel will be removed and disposed of at a later date. OCD will be notified of liner inspection within 48 hours prior.
Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.
Printed Name: <u>Evan Hinkel</u> Title: <u>Vice President of Production and Completion</u> Signature: <u><i>Evan Hinkel</i></u> Date: <u>08-21-2020</u> email: <u>Ehinkel@titusoil.com</u> Telephone: <u>(281)-236-6153</u>
<u>OCD Only</u> Received by: <u>Ramona Marcus</u> Date: <u>8/21/2020</u>

Incident ID	NRM2023460138
District RP	
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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?	224 (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
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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release within 300 feet of a wetland?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
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 1/2-mile of the lateral extents of the release
- Boring or excavation logs
- Photographs including date and GIS information
- Topographic/Aerial maps
- Laboratory data including chain of custody

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

State of New Mexico
Oil Conservation Division

Page 4

Incident ID	NRM2023460138
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Printed Name: Ryan DeLong Title: Regulatory Manager
 Signature:  Date: 8/5/2022
 email: rdelong@titusoil.com Telephone: 405-664-5188

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

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Incident ID	NRM2023460138
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: Ryan DeLong Title: Regulatory Manager
 Signature:  Date: 8/5/2021
 email: rdelong@titusoil.com Telephone: 405-664-5188

OCD Only

Received by: _____ Date: _____

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: _____ Date: _____

Printed Name: _____ Title: _____

From: [Ryan DeLong](#)
To: [Enviro, OCD, EMNRD](#)
Cc: [Evan Hinkel](#)
Subject: [EXT] Notice of Liner Inspection - Renegade BPG Federal Facility
Date: Thursday, August 27, 2020 10:16:56 AM

To Whom It May Concern;

Titus Oil & Gas Production, LLC will be performing a liner inspection at 10am MST, 8/29/2020, on the Renegade BPG Federal Facility located 660' FNL & 330' FWL, section 18, T26S, R35E, Lea County, NM. This inspection is taking place in accordance with NMAC 19.15.29.11.A.5.a, following a ~15bbl release on 8/7/2020. A C141 was filed on 8/21/2020.

If you have any questions, or require any further information, please don't hesitate to reach out to me using the contact information below.

Very Respectfully,

Ryan DeLong
Regulatory Manager
Titus Oil & Gas, LLC
817-852-6370 (office)
405-664-5188 (mobile)



Pima Environmental Services

Appendix C

Liner Inspection Form

Photographic Documentation

Liner Integrity Inspection Report

Name of Site: Renegade BGP Fed 1H **Incident #:** NRM2023460138

Inspection Tech: Ryan DeLong/Evan Hinkel **Date of Inspection:** 8/29/2020 **Time:** 1025am

Visual Inspection

Type of Secondary Containment:

- Earthen w/Liner
- Clay
- Supported, Coated Fabrics and Laminates
- Unsupported Geomembranes
- Steel
- Cement

Status:

- Free Fluid in Secondary Containment
- Intermittent Pooling
- Sump has Fluid
- Dry
- Release or leak traces inside containment
- Release or leak traces outside containment

Observations

Environmental Damage:

- Damage from animals or vegetation compromising liner integrity
- Discoloration, erosion, or chemical degradation of the liner
- Degradation of the liner system from storm water flow or erosion of the secondary containment system

Comments:

None _____

 None _____

 None _____

Physical Damage:

- Cracks, bulges, stains, chips, seepages in the liner system
- Improper or deferred maintenance of the liner system
- Dike wall, foundation, or embankment movement, settlement, or deterioration compromising the integrity of the liner system
- Degradation of the liner system at penetrations (piping, supports, wells, foundations, pads, etc.)
- Damage to the liner system from equipment, vehicles, foot traffic, frost heave, etc.
- Evidence of foundation movement, settlement, or deterioration

Comments:

 Older patches were found under the gravel, upon further inspection, their adhesive seals are both completely intact.

N/A _____

N/A _____

N/A _____









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 131807

CONDITIONS

Operator: Titus Oil & Gas Production, LLC 420 Throckmorton St, Ste 1150 Fort Worth, TX 76012	OGRID: 373986
	Action Number: 131807
	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 #NRM2023460138 RENEGADE BGP FEDERAL #001H, thank you. This closure is approved. On future liner inspections, please make sure the liner has been power washed so the surface of the liner can be clearly inspected. If this is not accomplished on the next liner inspection, the closure report will be denied.	8/5/2022