

## R. T. HICKS CONSULTANTS, LTD.

901 Rio Grande Blvd NW ▲ Suite F-142 ▲ Albuquerque, NM 87104 ▲ 505.266.5004 ▲ Since 1996  
Artesia ▲ Carlsbad ▲ Durango ▲ Midland

December 23, 2019

NRM2003452782

Mike Bratcher  
District 2 - ARTESIA  
811 S. First St.  
Artesia, New Mexico 88210  
Via Email:  
mike.bratcher@state.nm.us

Bradford Billings  
Environmental Bureau  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505  
Via Email:  
bradford.billings@state.nm.us

RE: C-141 Notification/Closure Report  
Murchison Oil and Gas, Inc. - Yogi Bear SWD #1 Release  
Unit H, Sec. 12, T17S, R28E, Eddy County

Dear Mr. Bratcher:

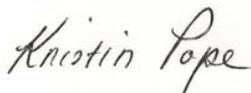
R.T. Hicks Consultants submits the attached C-141 on the behalf of Murchison Oil and Gas, Inc. (Murchison) for a release that occurred on November 4, 2019 when a water truck driver failed to disconnect the hose of the load line before attempting to leave the Yogi Bear SWD #1 location. The load line broke at the gun barrel of a tank, spilling 650 barrels produced water into the surrounding lined containment.

Murchison responded immediately by shutting in all wells serviced by the Yogi Bear SWD #1 until repairs were made. Murchison dispatched a vacuum truck which recovered approximately 650 barrels from the containment. After all fluids were removed, the gravel was stripped from the containment to inspect the liner which indicated no loss of integrity. Jim Griswold (NMOCD) was notified of the release via a voicemail on November 6, 2019 by R.T. Hicks Consultants.

The C-141 including assessment and closure forms is enclosed, as well as a site map with associated photographs, and a map of groundwater depth. Because 100 percent of the released fluid was recovered and the containment liner remained intact, remediation is not warranted and we respectfully request regulatory closure of this release. We also intend this submission as notice that Murchison will replace the gravel over the liner no sooner than 7:00 AM on December 30, 2019. Please contact Murchison to make arrangements to witness this activity or contact me with any questions.

Sincerely,

R.T. Hicks Consultants, Ltd.



Kristin Pope  
Sr. Project Geologist

Copy: Concho Oil and Gas

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	NRM2003452782
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party <b>Murchison Oil and Gas, Inc.</b>	OGRID <b>15363</b>
Contact Name <b>Greg Boans</b>	Contact Telephone <b>575-706-0667</b>
Contact email <b>gboans@jdmii.com</b>	Incident # (assigned by OCD)
Contact mailing address <b>Legacy Tower One, 7250 Dallas Parkway, Suite 1400, Plano, TX 75024</b>	

### Location of Release Source

Latitude 32.853015 \_\_\_\_\_ Longitude -104.122980 \_\_\_\_\_  
(NAD 83 in decimal degrees to 5 decimal places)

Site Name <b>Yogi Bear SWD #1</b>	Site Type <b>SWD battery</b>
Date Release Discovered 11/4/2019 7:00 PM	API# (if applicable) 30-015-32216

Unit Letter	Section	Township	Range	County
H	12	17S	28E	Eddy

Surface Owner:  State  Federal  Tribal  Private (Name: Concho Oil and Gas)

### 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 checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 650	Volume Recovered (bbls) 650
	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

Water truck attempted to leave location before disconnecting hose from load line. Load line broke at the gun barrel, spilling produced water in the lined containment surrounding the tank.

Form C-141

State of New Mexico  
Oil Conservation Division

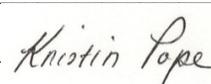
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Was this a major release as defined by 19.15.29.7(A) NMAC?  <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?  Total volume released was >25 bbls. 100% was recovered.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?  No; Voicemail left for Jim Griswold on 11/6/2019 by Kristin Pope	

### 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 checked="" 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.
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>Kristin Pope</u> Title: <u>R.T. Hicks Consultants (Agent for Murchison)</u> Signature: <u></u> Date: <u>12/23/2019</u> email: <u>kristin@rthicksconsult.com</u> Telephone: <u>575- 302-6755</u>
<b><u>OCD Only</u></b>  Received by: <u>Ramona Marcus</u> Date: <u>2/3/2020</u>

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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? <b>Plate 2</b>	48 (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 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 <b>not</b> 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.

<p><b>Characterization Report Checklist:</b> <i>Each of the following items must be included in the report.</i></p> <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.</li> <li><input checked="" type="checkbox"/> Field data</li> <li><input type="checkbox"/> Data table of soil contaminant concentration data <b><i>n/a; liner was not compromised; no soil was impacted</i></b></li> <li><input checked="" type="checkbox"/> Depth to water determination</li> <li><input checked="" type="checkbox"/> Determination of water sources and significant watercourses within 1/2-mile of the lateral extents of the release</li> <li><input type="checkbox"/> Boring or excavation logs <b><i>n/a; liner was not compromised; no soil was impacted</i></b></li> <li><input checked="" type="checkbox"/> Photographs including date and GIS information</li> <li><input checked="" type="checkbox"/> Topographic/Aerial maps</li> <li><input type="checkbox"/> Laboratory data including chain of custody <b><i>n/a; liner was not compromised; no soil was impacted</i></b></li> </ul>
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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.

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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:  Kristin Pope  Title:  R.T. Hicks Consultants (Agent for Murchison)

Signature:  *Kristin Pope*  Date:  12/23/2019

email:  kristin@rthicksconsult.com  Telephone:  575-302-6755

**OCD Only**

Received by:  Ramona Marcus  Date:  2/3/2020

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## Remediation Plan

**Remediation Plan Checklist:** Each of the following items must be included in the plan.

*n/a; liner was not compromised; no soil was impacted*

- Detailed description of proposed remediation technique
- Scaled sitemap with GPS coordinates showing delineation points
- Estimated volume of material to be remediated
- Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

**Deferral Requests Only:** Each of the following items must be confirmed as part of any request for deferral of remediation.

- Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.
- Extents of contamination must be fully delineated.
- Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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Printed Name:  Kristin Pope  Title:  R.T. Hicks Consultants (Agent for Murchison)

Signature:  Kristin Pope  Date:  12/23/2019

email:  kristin@rthicksconsult.com  Telephone:  575-302-6755

**OCD Only**

Received by:  Ramona Marcus  Date:  2/3/2020

- Approved       Approved with Attached Conditions of Approval       Denied       Deferral Approved

Signature: \_\_\_\_\_ Date: \_\_\_\_\_

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### 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)  
*n/a; liner was not compromised; no soil was impacted*
- Description of remediation activities *n/a; liner was not compromised; no soil was impacted*

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:  Kristin Pope  Title:  R.T. Hicks Consultants (Agent for Murchison)

Signature:  *Kristin Pope*  Date:  12/23/2019

email:  kristin@rthicksconsult.com  Telephone:  575-302-6755

**OCD Only**

Received by:  Ramona Marcus  Date:  2/3/2020

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: \_\_\_\_\_

NRM2003452782



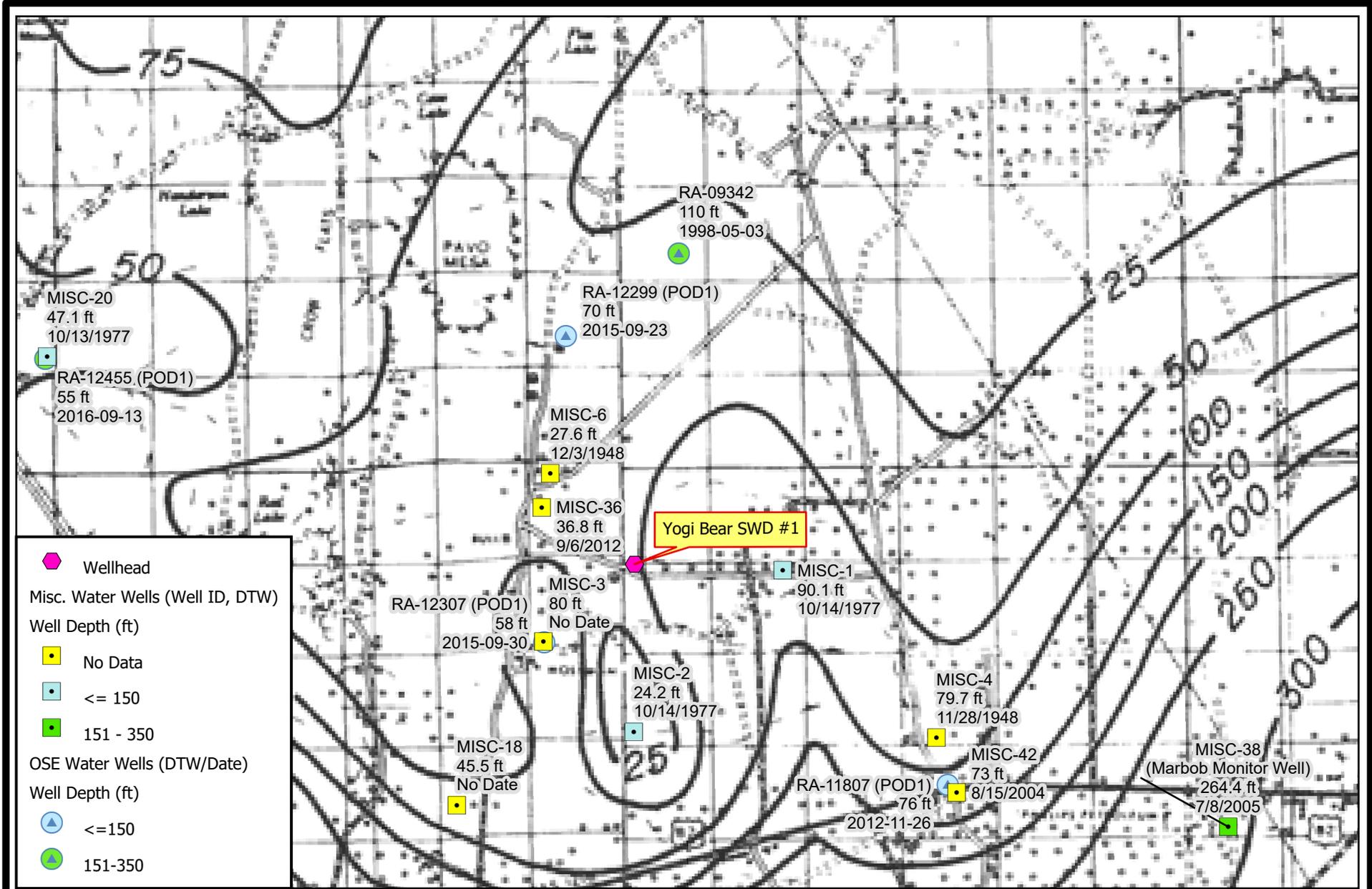
GPS Coordinates: Release Origin 32.85302 -104.123  
(NAD 83)

Release Date  
11/4/2019

R.T. Hicks Consultants, Ltd 901 Rio Grande Blvd NW Suite F-142 Albuquerque, NM 87104 505-266-5004	Google Earth Image (2016) of Yogi Bear SWD #1 Release Area	Plate 1
	Murchison Oil and Gas, Inc.	December 2019

NRM2003452782

Z:\Shared\Documents\Projects\Murchison\YogiBearRelease 11.04.2019\arcGISproYogi1\arcGISproYogi1.aprx



R.T. Hicks Consultants, Ltd  
 901 Rio Grande Blvd NW Suite F-142  
 Albuquerque, NM 87104  
 Ph: 505.266.5004

Depth to Water  
 Basemap: USGS OFR-95  
 Murchison Oil & Gas, Inc.  
 Yogi Bear SWD #1

Plate 2  
 Dec. 2019

NRM2003452782

PHOTOGRAPHS

Yogi Bear SWD #1 Release

Murchison Oil and Gas, Inc.



**Figure 1**

Description

Source of release: Broken gun barrel

Date

November 5, 2019

Coordinates

32.853015, -104.122980



**Figure 2**

Description

Lined containment filled with released fluid

Date

November 5, 2019

Coordinates

32.853072, -104.123033

NRM2003452782

PHOTOGRAPHS

Yogi Bear SWD #1 Release

Murchison Oil and Gas, Inc.



**Figure 3**

Description

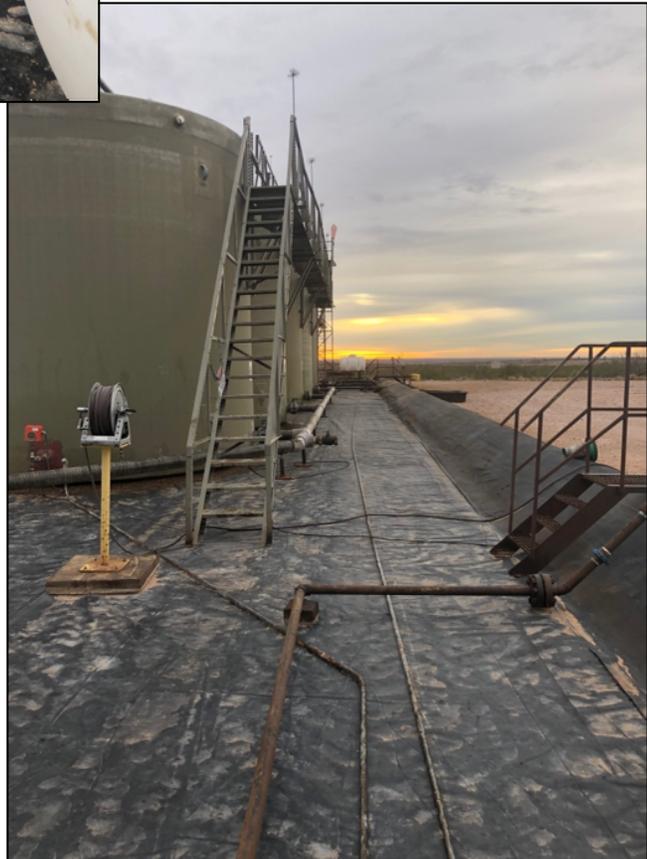
Exposed liner near release point

Date

December 4, 2019

Coordinates

32.853015, -104.122980



**Figure 4**

Description

Exposed liner

Date

December 4, 2019

Coordinates

32.853201, -104.123352