

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:

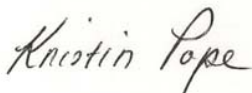
R.T. Hicks Consultants submits the attached C-141 on the behalf of Murchison Oil and Gas, Inc. (Murchison) for a release that occurred on November 4, 2019 when a water truck driver failed to disconnect the hose of the load line before attempting to leave the Yogi Bear SWD #1 location. The load line broke 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 Murchison Oil and Gas, Inc.	OGRID 15363
Contact Name Greg Boans	Contact Telephone 575-706-0667
Contact email gboans@jdmii.com	Incident # (assigned by OCD)
Contact mailing address Legacy Tower One, 7250 Dallas Parkway, Suite 1400, Plano, TX 75024	

Location of Release Source

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

Site Name Yogi Bear SWD #1	Site Type SWD battery
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.

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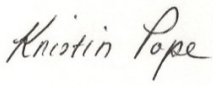
State of New Mexico
Oil Conservation Division

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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>
<u>OCD Only</u>	
Received by: <u>Ramona Marcus</u>	Date: <u>2/3/2020</u>

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Oil Conservation Division

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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? Plate 2	<u>48</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
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 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 **n/a; liner was not compromised; no soil was impacted**
- ☒ 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 **n/a; liner was not compromised; no soil was impacted**
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody **n/a; liner was not compromised; no soil was impacted**

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: 12/23/2019email: 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.

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

☐ 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: _____

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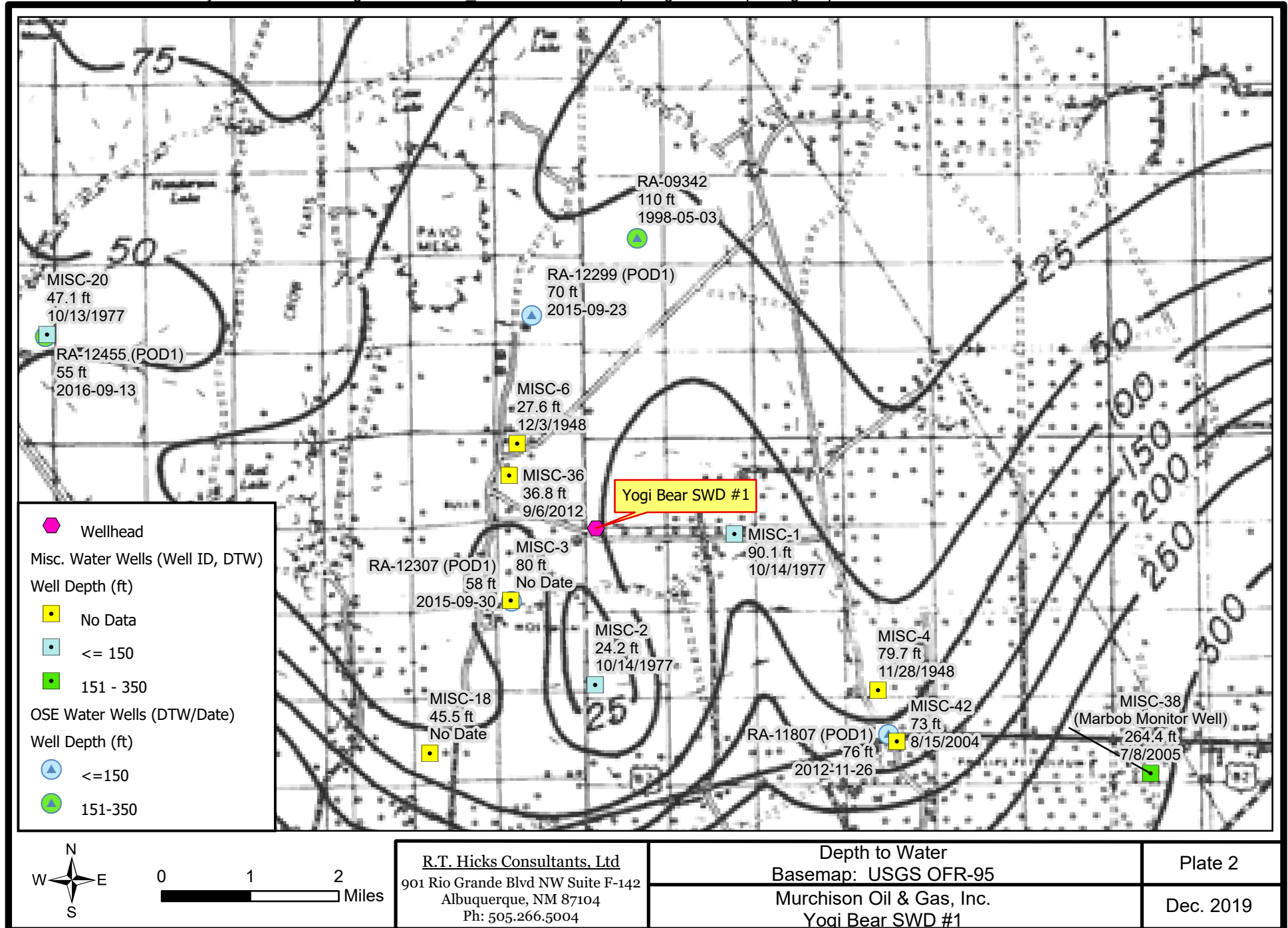


GPS Coordinates:	Release Origin	32.85302	-104.123	Release Date
(NAD 83)				11/4/2019

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



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

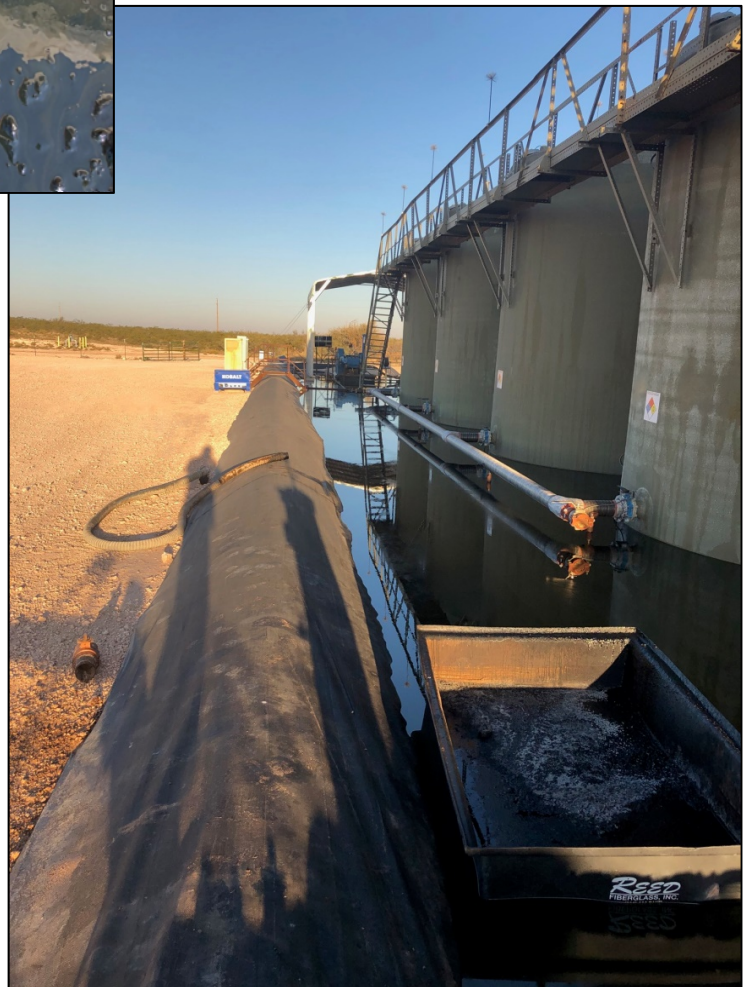
Lined containment filled with released fluid

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