

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	nAPP2132572870
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party: Cimarex Energy Co.	OGRID: 215099
Contact Name: Laci Luig	Contact Telephone: (432) 571-7800
Contact email: lluig@cimarex.com	Incident # (assigned by OCD) nAPP2132572870
Contact mailing address: 600 N Marienfeld Street, Ste. 600 Midland, TX 79701	

Location of Release Source

Latitude 32.2421962 _____ Longitude -103.4375741 _____
(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Canyonlands 2 State Com	Site Type: Battery
Date Release Discovered: 11/21/2021	API# (if applicable)

Unit Letter	Section	Township	Range	County
O	2	24S	34E	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 type="checkbox"/> Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
<input checked="" type="checkbox"/> Produced Water	Volume Released (bbls) 6	Volume Recovered (bbls) 3
	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: Mechanical Failure

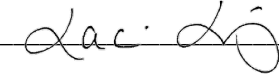
The water transfer pump was found leaking from the seal. The pump was shut off and isolated to stop the release. Total released 6 barrels of produced water, 3 barrels inside of containment and 3 barrels outside of containment. Recovered 3 barrels of produced water from inside containment. Repairs will be made to the pump and hydro vac will remove the impacted soil. An environmental company will remediate the impacted area.

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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)? By: Gloria Garza To: Mike Bratcher, Chad Hensley, Robert Hamlet and SLO By: Email	

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: Laci Luig	Title: ESH Specialist
Signature: 	Date: 11/21/2021
email: llui@cimarex.com	Telephone: (432) 208-3035
<u>OCD Only</u> Received by: Ramona Marcus Date: 2/8/2022	

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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>43</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 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 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

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

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Printed Name: Laci Luig_____ Title: ESH Specialist_____

Signature: Laci Luig_____ Date: 1/20/2022_____

email: lluig@cimarex.com_____ Telephone: (432) 208-3035_____

OCD OnlyReceived by: Ramona Marcus_____ Date: 2/8/2022_____

Incident ID	nAPP2132572870
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Facility ID	
Application ID	

Closure

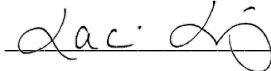
The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled 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: Laci Luig _____ Title: ESH Specialist _____

Signature:  _____ Date: 1/20/2022 _____

email: lluig@cimarex.com _____ Telephone: (432) 208-3035 _____

OCD Only

Received by: Ramona Marcus _____ Date: 2/8/2022 _____

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:  _____ Date: 02/21/2022 _____

Printed Name: Chad Hensley _____ Title: Environmental Specialist Advanced _____

NAPP2132572870



CLOSURE REQUEST AND REMEDIATION SUMMARY REPORT

**Cimarex Energy Co.
Canyonlands 2 State COM 1H & 2H
Lea County, New Mexico
Unit Letter "O", Section 2, Township 24 South, Range 34 East
Latitude 32.241946° North, Longitude 103.437372° West
NMOCD Reference #: nAPP2132572870**

Prepared For:

Cimarex Energy Co.
600 N. Marienfeld Street, Ste. 600
Midland, TX 79701

Prepared By:

Etech Environmental & Safety Solutions, Inc.
P.O. Box 62228
Midland, Texas 79711

January 21, 2022

A handwritten signature in blue ink that reads "Blake Estep".

Blake Estep
Project Manager

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Figure 3 – Water Well Radius Map
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Appendix B – Analytical Reports
Appendix C – USGS Groundwater Elevation Data
Appendix D – Release Notification and Corrective Action (Form C-141) (# nAPP2119226446)

INTRODUCTION

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Cimarex Energy Co. (Cimarex), has prepared this Closure Request and Remediation Summary Report for the Release Site known as Canyonlands 2 State COM 1H & 2H. The legal description of the Release Site is Unit Letter "O", Section 2, Township 24 South, Range 34 East, in Lea County, New Mexico. The subject property is owned by the New Mexico State Land Office (NMSLO). The Release Site GPS coordinates are 32.241946° North and 103.437372° West. Please reference Figure 1 for the Site Location Map, Figure 2 for the Site Details & Confirmation Soil Sample Map, Figure 3 for the Water Well Radius Map, Figure 4 for Karst Locations Map, and Figure 5 for the National Flood Hazard Layer (NFHL) Map.

On November 21, 2021, a reportable release was discovered by Cimarex at the Canyonlands 2 State COM 1H & 2H site (Release Site). A seal on a water transfer pump was found leaking, resulting in the release. Approximately six (6) barrels of produced water was released with three (3) barrels recovered, resulting in a net loss of approximately three (3) barrels of produced water. On November 21, 2021, Cimarex filed a *Release Notification and Corrective Action Form* (Form C-141) with the New Mexico Oil Conservation Division (NMOCD) and the NMSLO documenting the release. The Form C-141 is provided as Appendix D.

Photographic documentation for the Canyonlands 2 State COM Release Site is provided as Appendix A.

NMOCD SITE CLASSIFICATION

A search of the groundwater database maintained by United States Geological Survey (USGS) did not identify any registered water wells within a quarter (1/4) mile of the Canyonlands 2 State COM Release Site. A further search of the USGS database identified the closest registered water well is USGS Well #: 321357103265201 located approximately six tenths (0.6) of a mile southwest of the Release Site. The average depth to groundwater for USGS Well #: 321357103265201 should be encountered at approximately forty-three (43) feet below ground surface (bgs), please refer to Appendix C. The release site is in a non-karst area and is considered stable refer to Figure 4. No water wells were observed within one thousand (1,000) feet of the Release Site. A search of the NFHL map maintained by Federal Emergency Management Agency (FEMA) indicated the area within a half (1/2) mile radius of the Release Site is not within a flood plain. No surface water was observed within one thousand (1,000) feet of the release based on the NFHL Map data. Based on the NMOCD site classification system, the following soil remediation levels were assigned to the Release Site as a result of this criterion.

- Benzene – 10 mg/Kg (ppm)
- BTEX – 50 mg/Kg (ppm)
- TPH – 100 mg/Kg (ppm)
- Chloride – 600 mg/Kg (ppm)

Please refer to Figure 3 for the Water Well Radius Map and Figure 4 for the National Flood Hazard Layer (NFHL) Map.

SUMMARY OF SOIL REMEDIATION ACTIVITIES

On January 11, 2022, Etech commenced field screening activities during excavation activities conducted by Cimarex operations personnel. The excavated area measured approximately fifty-five (55) feet in length and ranging from approximately eight (8) to twenty-one (21) feet in width. Four (4) composite soil samples were collected from the base of the excavated area, and four (4) composite confirmation soil samples were collected from the sidewalls of the excavated area. Samples were submitted to Cardinal Laboratories in Hobbs, New Mexico for benzene, toluene, ethylbenzene, and xylene (BTEX) using EPA Method SW 846-8021B, Total Petroleum Hydrocarbons (TPH) using EPA Method SW 846-8015M, and chloride using EPA Method E 300.0 and/or SM4500. A review of laboratory analytical results indicated elevated chloride concentrations above the NMOCD regulatory limit on the north sidewall with a concentration of six-hundred fifty-six (656). Please reference Table 1 and Figure 2 for sample locations.

January 14, 2022, utilizing manual means Etech further excavated the north sidewall of the excavation. In the area of the north sidewall field screening was utilized to assist in extent of excavation. One (1) north sidewall sample was submitted to Cardinal Laboratories in Hobbs, New Mexico for chloride concentrations using EPA Method E300.0. A review of laboratory analytical results indicated all confirmation soil samples were below NMOCD regulatory guidelines for TPH, chloride, Benzene, and BTEX concentrations. Please reference Table 1 and Figure 2 for sample locations.

Table 1 Confirmation Sample Results summarizes the Concentrations of Benzene, BTEX, TPH, and Chlorides in Soil. Analytical reports are provided as Appendix B.

SOIL DISPOSAL AND BACKFILL ACTIVITIES

Cimarex personnel conducted backfill activities at the site utilizing a non-impacted like soil from an NMSLO approved source and the site was recontoured to fit the surrounding area. During remediation approximately forty-eight (48) cubic yards of impacted caliche was removed. The impacted material was transported in belly dumps by a 3rd party trucking company to Lea Land Disposal for disposal.

SITE CLOSURE REQUEST

Laboratory analytical results from the excavation confirmation soil samples indicated BTEX, TPH and chloride concentrations were below the NMOCD closure criteria in each of the submitted soil samples. Etech, on behalf of Cimarex, respectfully request that the NMOCD District 1 Office and the NMSLO grant site closure to the Canyonlands 2 State COM 1H & 2H Release Site (NMOCD Incident ID: nAPP2132572870).

LIMITATIONS

Etech has prepared this Closure Request and Remediation Summary Report to the best of its ability. No other warranty, expressed or implied, is made or intended. Etech has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Etech has not conducted an independent examination of the facts contained in

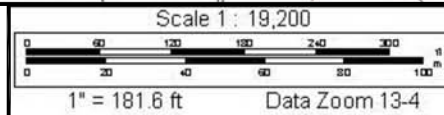
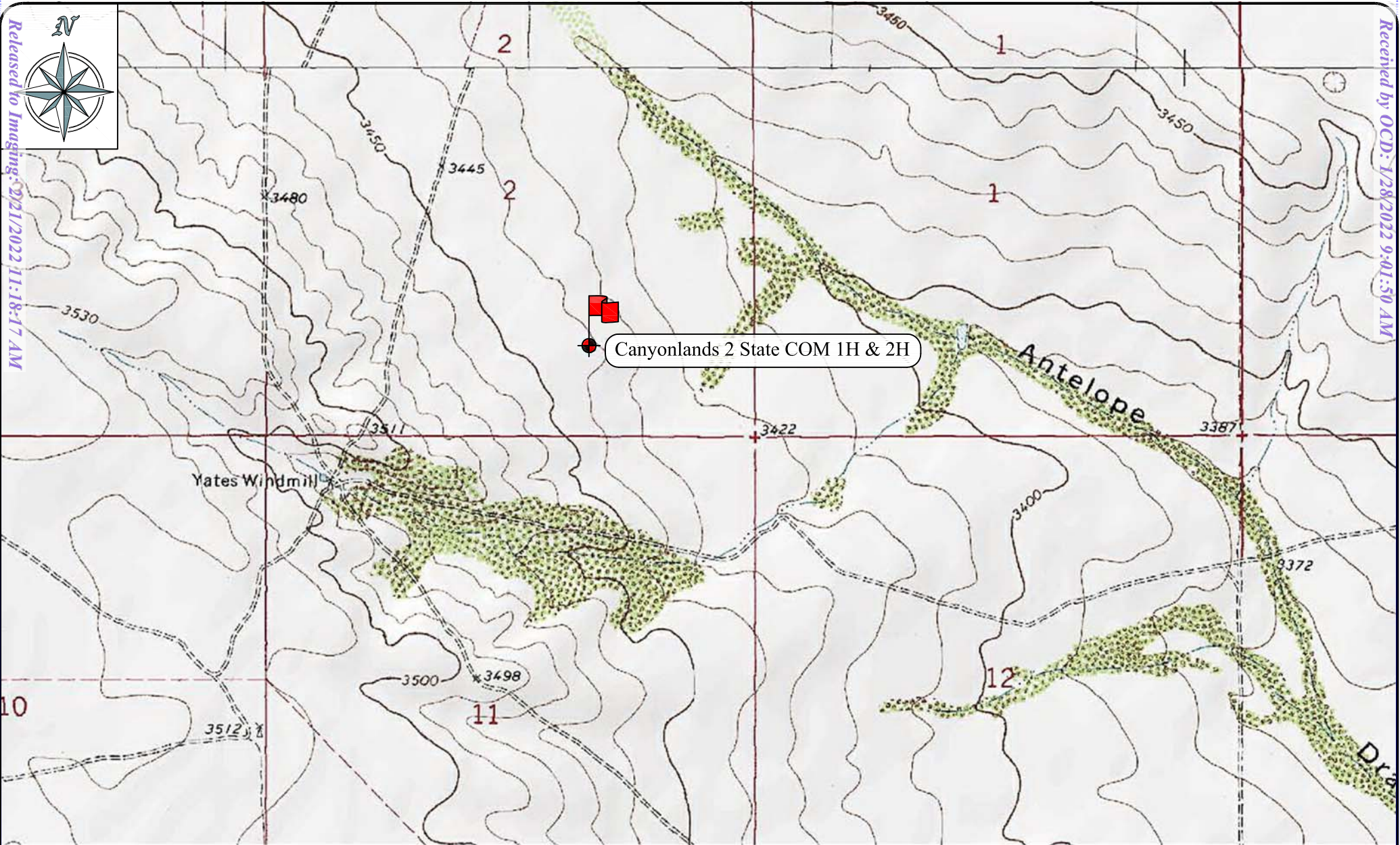
referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. Etech has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Etech also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report. This report has been prepared for the benefit of Cimarex Energy Co. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Etech and/or Cimarex Energy Co.

DISTRIBUTION

- Copy 1: New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division, District 1
1624 N. French Drive
Hobbs, New Mexico 88210
- Copy 2: New Mexico State Land Office
2827 N Dal Paso Suite 117
Hobbs, NM 88240
- Copy 3: Laci Luig
Cimarex Energy Co.
600 N Marienfeld Street, Ste. 600
Midland, TX 79701
- Copy 4: Etech Environmental & Safety Solutions, Inc.
P.O. Box 62228
Midland, TX 79711


FIGURES





Site - Canyonlands 2 State COM 1H & 2H
Site Location Map
Cimarex Energy Co.
Lea County, NM
N 32.241925°, W 103.437931°
January 2022

Legend

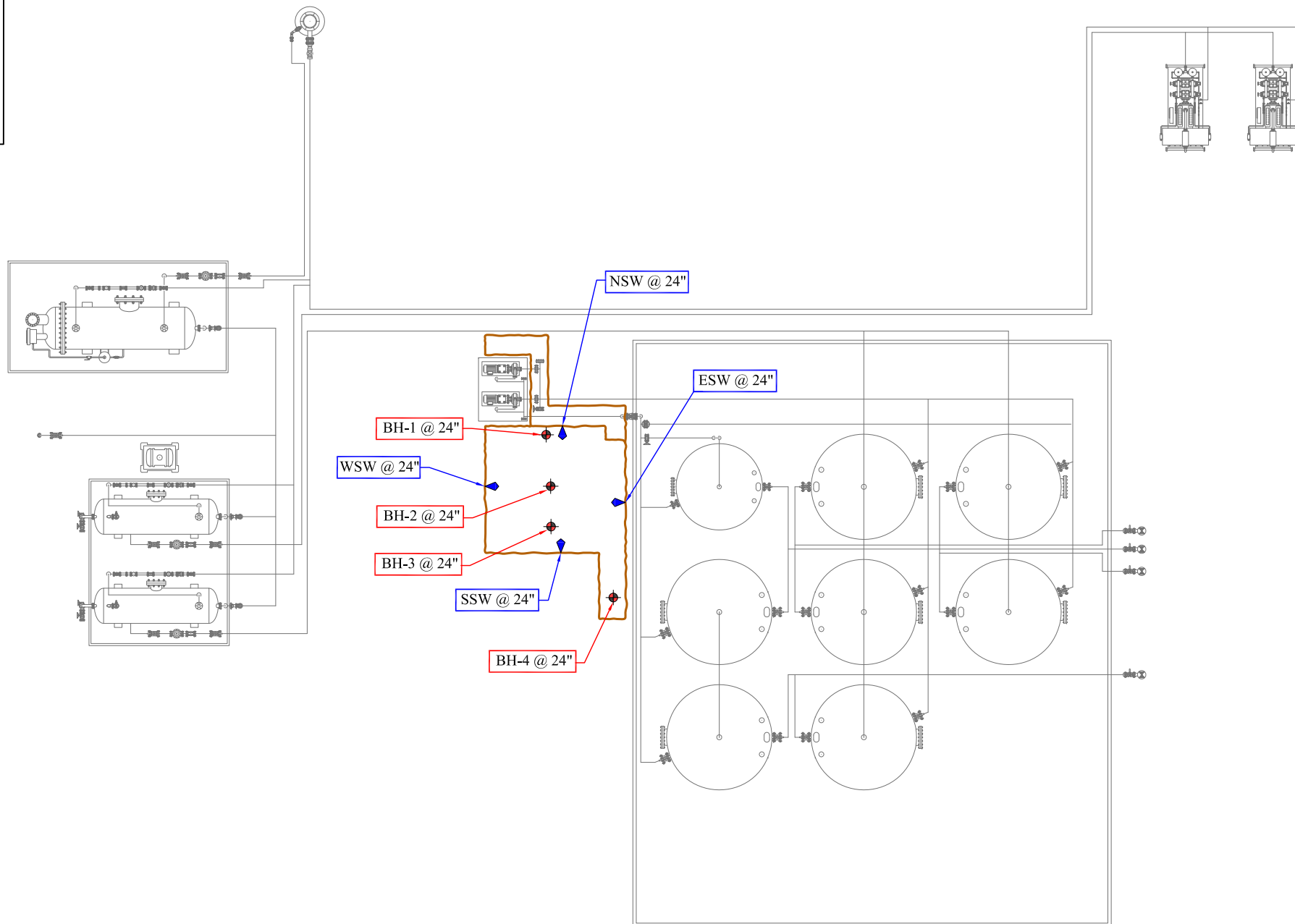
 = Site Location

ETECH
Environmental & Safety Solutions, Inc.

Job No.: 1401-15260



Figure 1

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Site - Canyonlands 2 State Com 1H & 2H
 Site Details & Confirmation Sample Map
 Cimarex Energy, Co.
 Lea County, NM
 N 32.241925°, W 103.437931°
 January 2022

Legend

-  = Bottom Hole Sample Location
-  = Side Wall Sample Location

 Excavation Perimeter

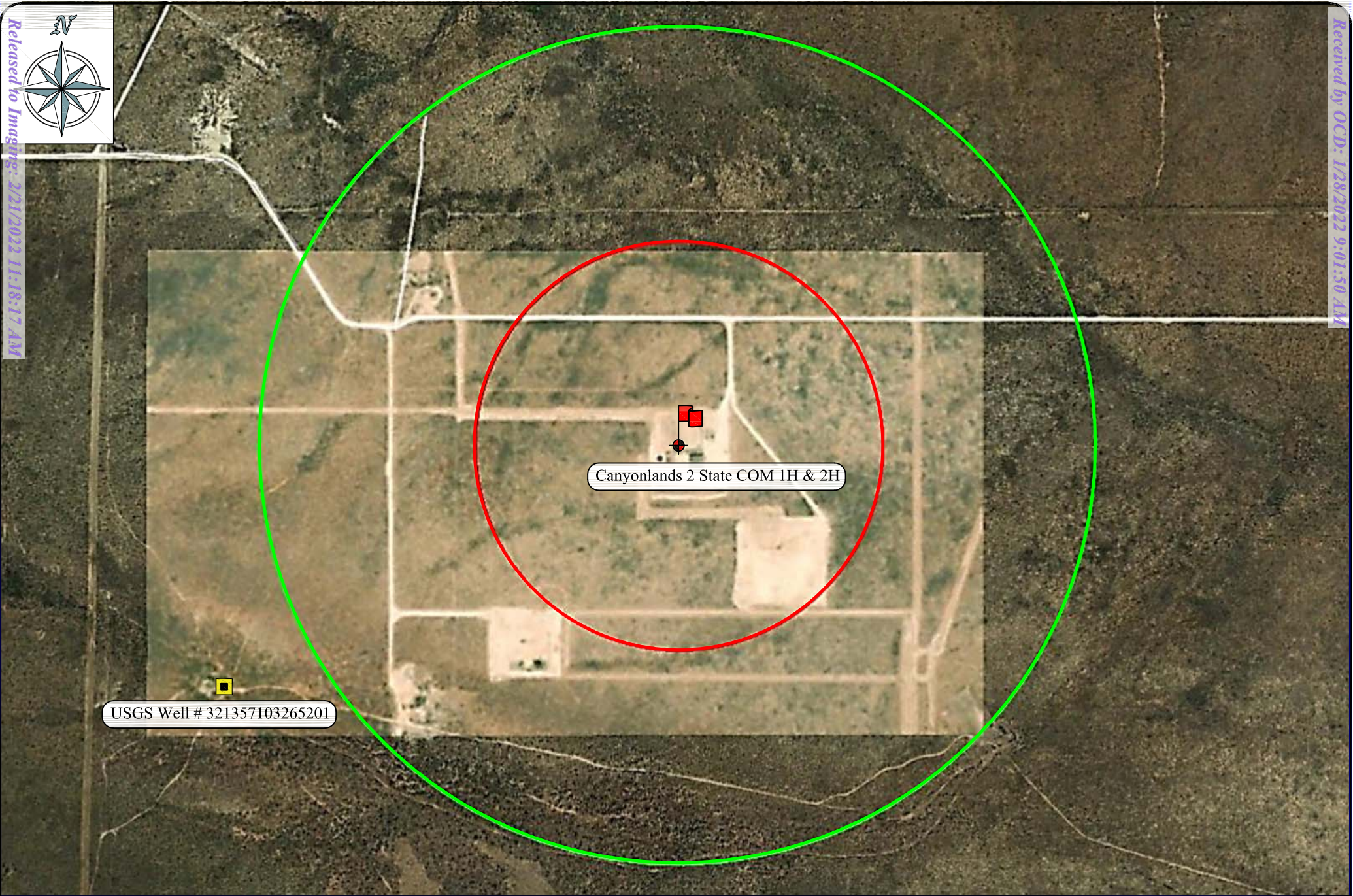
Not to Scale
 All sample points are approximate





Job No.:

1401-15260



Figure 2



Site - Canyonlands 2 State COM D1H & 2H
Water Well Radius Map
Cimarex Energy, Co.
Lea County, NM
N 32.241925°, W 103.437931°
January 2022

-  = Site Location
-  = Water Well

Legend

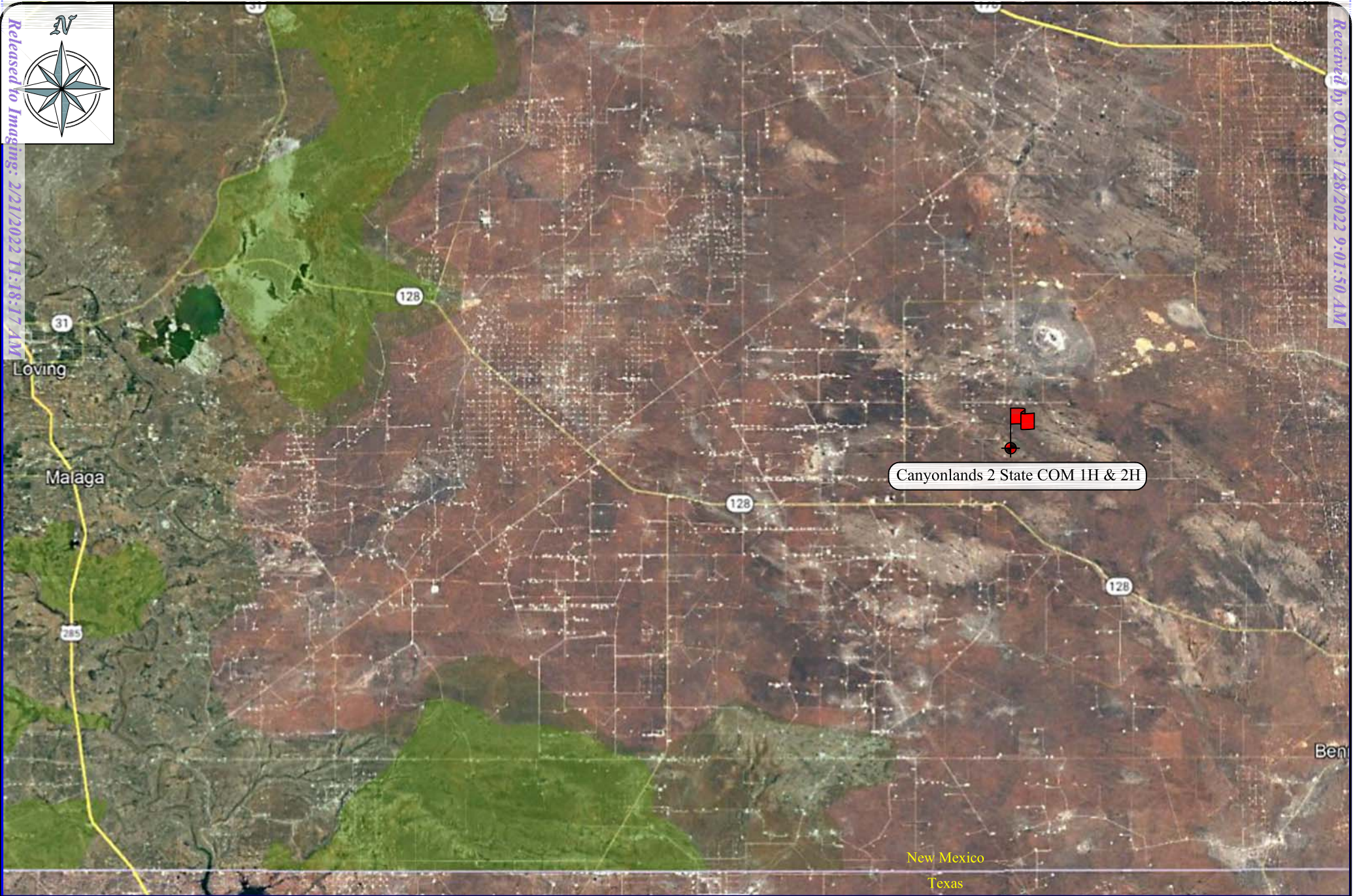
-  Water Radius $\frac{1}{4}$ mile
-  Water Radius $\frac{1}{2}$ mile

Not to Scale



Job No.:
1401-15260


Figure 3




Released to Imaging: 2/21/2022 H:18:17 AM

Received by OCD: 1/28/2022 9:01:50 AM

Site - Canyonlands 2 State COM D1H & 2H
Karst Location Map
Cimarex Energy, Co.
Lea County, NM
N 32.241925°, W 103.437931°
January 2022


= Site Location

Legend


0 5 10
Miles


Environmental & Safety Solutions, Inc.

Job No.:
1401-15260

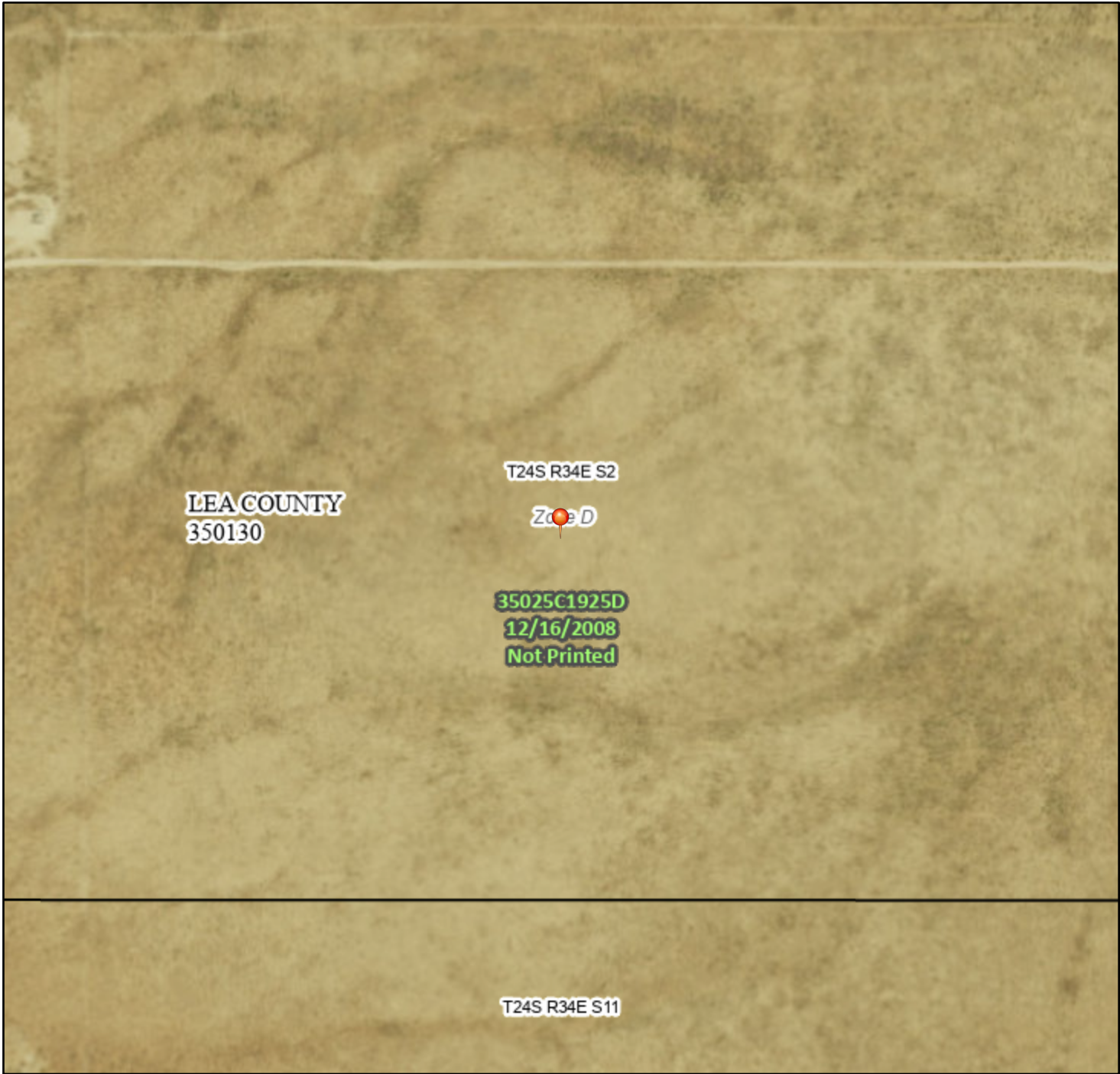
Figure 4

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National Flood Hazard Layer FIRMette



103°26'35"W 32°14'47"N



Legend

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

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		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
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
		Area of Undetermined Flood Hazard Zone D
GENERAL STRUCTURES		Channel, Culvert, or Storm Sewer
		Levee, Dike, or Floodwall
OTHER FEATURES		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
		17.5 Cross Sections with 1% Annual Chance Water Surface Elevation
		Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
MAP PANELS		Digital Data Available
		No Digital Data Available
		Unmapped



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

This map complies with FEMA's standards for the use of 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 9/14/2021 at 10:26 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.

TABLES



TABLE 1

CONCENTRATIONS OF BENZENE, BTEX, TPH AND CHLORIDE IN SOIL
CONFIRMATION SAMPLE RESULTS

Cimarex Energy Co.

Canyonlands 2 State COM
LEA COUNTY, NEW MEXICO

All concentrations are reported in mg/Kg

SAMPLE LOCATION	SAMPLE DATE	METHODS: SW 846-8021B						METHOD: SW 8015M					E 300.0
		BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE	TOTAL XYLENES	TOTAL BTEX	TPH GRO C ₆ -C ₁₂	TPH DRO C ₁₂ -C ₂₈	TPH ORO C ₂₈ -C ₃₅	TOTAL TPH C ₆ -C ₃₅	CHLORIDE
Limits		10 mg/Kg						50 mg/Kg				100 mg/Kg	600 mg/Kg
Limits		10 mg/Kg						50 mg/Kg				100 mg/Kg	600 mg/Kg
Bottom Hole 1 @ 24"	1/11/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	240
Bottom Hole 2 @ 24"	1/11/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	272
Bottom Hole 3 @ 24"	1/11/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	224
Bottom Hole 4 @ 24"	1/11/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	112
North Sidewall 1	1/11/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	656
East Sidewall	1/11/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	96
South Sidewall	1/11/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	320
West Sidewall	1/11/2022	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	400.0
North Sidewall	1/14/2022	-	-	-	-	-	-	-	-	-	-	-	240.0

Bold and yellow highlighted indicates analyte above NMOCD Regulatory Limit.

"ND" denotes analyte not detected above laboratory method detection limit.

"- " denotes analyte not analyzed.

APPENDIX A



Project Name: Canyonland 2 State COM 1H & 2H
Project No: 15260

Photographic Documentation

Project Name: Canyonland 2 State COM 1H & 2H
Project No: 15260

Photographic Documentation

Project Name: Canyonland 2 State COM 1H & 2H
Project No: 15260

Photographic Documentation

Project Name: Canyonland 2 State COM 1H & 2H
Project No: 15260

Photographic Documentation

APPENDIX B





PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 13, 2022

SEAN CARTER

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: CANYONLANDS 2 STATE COM 1H & 2H

Enclosed are the results of analyses for samples received by the laboratory on 01/11/22 14:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
 SEAN CARTER
 P. O. BOX 8469
 MIDLAND TX, 79708
 Fax To: (432) 563-2213

Received:	01/11/2022	Sampling Date:	01/11/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	CANYONLANDS 2 STATE COM 1H & 2H	Sampling Condition:	** (See Notes)
Project Number:	15260	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - NM		

Sample ID: NORTH SIDEWALL (H220109-01)

BTEX 8021B		mg/kg		Analyzed By: MS/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	01/11/2022	ND	2.13	107	2.00	0.106	
Toluene*	<0.050	0.050	01/11/2022	ND	2.08	104	2.00	0.635	
Ethylbenzene*	<0.050	0.050	01/11/2022	ND	2.03	102	2.00	0.711	
Total Xylenes*	<0.150	0.150	01/11/2022	ND	6.19	103	6.00	0.900	
Total BTEX	<0.300	0.300	01/11/2022	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	656	16.0	01/12/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2022	ND	225	112	200	1.92	
DRO >C10-C28*	<10.0	10.0	01/12/2022	ND	237	119	200	9.70	
EXT DRO >C28-C36	<10.0	10.0	01/12/2022	ND					

Surrogate: 1-Chlorooctane 108 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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ETECH Environmental & Safety Solutions, Inc.
 SEAN CARTER
 P. O. BOX 8469
 MIDLAND TX, 79708
 Fax To: (432) 563-2213

Received:	01/11/2022	Sampling Date:	01/11/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	CANYONLANDS 2 STATE COM 1H & 2H	Sampling Condition:	** (See Notes)
Project Number:	15260	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - NM		

Sample ID: EAST SIDEWALL (H220109-02)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2022	ND	2.13	107	2.00	0.106		
Toluene*	<0.050	0.050	01/11/2022	ND	2.08	104	2.00	0.635		
Ethylbenzene*	<0.050	0.050	01/11/2022	ND	2.03	102	2.00	0.711		
Total Xylenes*	<0.150	0.150	01/11/2022	ND	6.19	103	6.00	0.900		
Total BTEx	<0.300	0.300	01/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	01/12/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2022	ND	225	112	200	1.92	
DRO >C10-C28*	<10.0	10.0	01/12/2022	ND	237	119	200	9.70	
EXT DRO >C28-C36	<10.0	10.0	01/12/2022	ND					

Surrogate: 1-Chlorooctane 112 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 SEAN CARTER
 P. O. BOX 8469
 MIDLAND TX, 79708
 Fax To: (432) 563-2213

Received:	01/11/2022	Sampling Date:	01/11/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	CANYONLANDS 2 STATE COM 1H & 2H	Sampling Condition:	** (See Notes)
Project Number:	15260	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - NM		

Sample ID: SOUTH SIDEWALL (H220109-03)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2022	ND	2.13	107	2.00	0.106		
Toluene*	<0.050	0.050	01/11/2022	ND	2.08	104	2.00	0.635		
Ethylbenzene*	<0.050	0.050	01/11/2022	ND	2.03	102	2.00	0.711		
Total Xylenes*	<0.150	0.150	01/11/2022	ND	6.19	103	6.00	0.900		
Total BTEx	<0.300	0.300	01/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	320	16.0	01/12/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2022	ND	225	112	200	1.92	
DRO >C10-C28*	<10.0	10.0	01/12/2022	ND	237	119	200	9.70	
EXT DRO >C28-C36	<10.0	10.0	01/12/2022	ND					

Surrogate: 1-Chlorooctane 110 % 66.9-136

Surrogate: 1-Chlorooctadecane 113 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 MIDLAND TX, 79708
 Fax To: (432) 563-2213

Received:	01/11/2022	Sampling Date:	01/11/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	CANYONLANDS 2 STATE COM 1H & 2H	Sampling Condition:	** (See Notes)
Project Number:	15260	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - NM		

Sample ID: WEST SIDEWALL (H220109-04)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2022	ND	2.13	107	2.00	0.106		
Toluene*	<0.050	0.050	01/11/2022	ND	2.08	104	2.00	0.635		
Ethylbenzene*	<0.050	0.050	01/11/2022	ND	2.03	102	2.00	0.711		
Total Xylenes*	<0.150	0.150	01/11/2022	ND	6.19	103	6.00	0.900		
Total BTEX	<0.300	0.300	01/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.0 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	400	16.0	01/12/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10*	<10.0	10.0	01/12/2022	ND	225	112	200	1.92		
DRO >C10-C28*	<10.0	10.0	01/12/2022	ND	237	119	200	9.70		
EXT DRO >C28-C36	<10.0	10.0	01/12/2022	ND						

Surrogate: 1-Chlorooctane 107 % 66.9-136

Surrogate: 1-Chlorooctadecane 107 % 59.5-142

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 MIDLAND TX, 79708
 Fax To: (432) 563-2213

Received:	01/11/2022	Sampling Date:	01/11/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	CANYONLANDS 2 STATE COM 1H & 2H	Sampling Condition:	** (See Notes)
Project Number:	15260	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - NM		

Sample ID: BOTTOM HOLE 1 (H220109-05)

BTEX 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2022	ND	2.13	107	2.00	0.106		
Toluene*	<0.050	0.050	01/11/2022	ND	2.08	104	2.00	0.635		
Ethylbenzene*	<0.050	0.050	01/11/2022	ND	2.03	102	2.00	0.711		
Total Xylenes*	<0.150	0.150	01/11/2022	ND	6.19	103	6.00	0.900		
Total BTEX	<0.300	0.300	01/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	240	16.0	01/12/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2022	ND	225	112	200	1.92	
DRO >C10-C28*	<10.0	10.0	01/12/2022	ND	237	119	200	9.70	
EXT DRO >C28-C36	<10.0	10.0	01/12/2022	ND					

Surrogate: 1-Chlorooctane 109 % 66.9-136

Surrogate: 1-Chlorooctadecane 111 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
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 MIDLAND TX, 79708
 Fax To: (432) 563-2213

Received:	01/11/2022	Sampling Date:	01/11/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	CANYONLANDS 2 STATE COM 1H & 2H	Sampling Condition:	** (See Notes)
Project Number:	15260	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - NM		

Sample ID: BOTTOM HOLE 2 (H220109-06)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2022	ND	2.13	107	2.00	0.106		
Toluene*	<0.050	0.050	01/11/2022	ND	2.08	104	2.00	0.635		
Ethylbenzene*	<0.050	0.050	01/11/2022	ND	2.03	102	2.00	0.711		
Total Xylenes*	<0.150	0.150	01/11/2022	ND	6.19	103	6.00	0.900		
Total BTEx	<0.300	0.300	01/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 98.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	272	16.0	01/12/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2022	ND	225	112	200	1.92	
DRO >C10-C28*	<10.0	10.0	01/12/2022	ND	237	119	200	9.70	
EXT DRO >C28-C36	<10.0	10.0	01/12/2022	ND					

Surrogate: 1-Chlorooctane 114 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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 SEAN CARTER
 P. O. BOX 8469
 MIDLAND TX, 79708
 Fax To: (432) 563-2213

Received:	01/11/2022	Sampling Date:	01/11/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	CANYONLANDS 2 STATE COM 1H & 2H	Sampling Condition:	** (See Notes)
Project Number:	15260	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - NM		

Sample ID: BOTTOM HOLE 3 (H220109-07)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2022	ND	2.13	107	2.00	0.106		
Toluene*	<0.050	0.050	01/11/2022	ND	2.08	104	2.00	0.635		
Ethylbenzene*	<0.050	0.050	01/11/2022	ND	2.03	102	2.00	0.711		
Total Xylenes*	<0.150	0.150	01/11/2022	ND	6.19	103	6.00	0.900		
Total BTEx	<0.300	0.300	01/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.1 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	224	16.0	01/12/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2022	ND	225	112	200	1.92	
DRO >C10-C28*	<10.0	10.0	01/12/2022	ND	237	119	200	9.70	
EXT DRO >C28-C36	<10.0	10.0	01/12/2022	ND					

Surrogate: 1-Chlorooctane 114 % 66.9-136

Surrogate: 1-Chlorooctadecane 114 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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 MIDLAND TX, 79708
 Fax To: (432) 563-2213

Received:	01/11/2022	Sampling Date:	01/11/2022
Reported:	01/13/2022	Sampling Type:	Soil
Project Name:	CANYONLANDS 2 STATE COM 1H & 2H	Sampling Condition:	** (See Notes)
Project Number:	15260	Sample Received By:	Tamara Oldaker
Project Location:	CIMAREX - NM		

Sample ID: BOTTOM HOLE 4 (H220109-08)

BTEx 8021B		mg/kg		Analyzed By: MS/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	01/11/2022	ND	2.13	107	2.00	0.106		
Toluene*	<0.050	0.050	01/11/2022	ND	2.08	104	2.00	0.635		
Ethylbenzene*	<0.050	0.050	01/11/2022	ND	2.03	102	2.00	0.711		
Total Xylenes*	<0.150	0.150	01/11/2022	ND	6.19	103	6.00	0.900		
Total BTEx	<0.300	0.300	01/11/2022	ND						

Surrogate: 4-Bromofluorobenzene (PID) 97.5 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: GM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	01/12/2022	ND	448	112	400	3.64		

TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	01/12/2022	ND	213	106	200	2.62	
DRO >C10-C28*	<10.0	10.0	01/12/2022	ND	221	110	200	0.186	
EXT DRO >C28-C36	<10.0	10.0	01/12/2022	ND					

Surrogate: 1-Chlorooctane 96.8 % 66.9-136

Surrogate: 1-Chlorooctadecane 101 % 59.5-142

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: Etech Environmental Project Manager: Sean Carter Address: 1300 W CR 160 City: Doessa, State: TX Zip: 79715 Phone #: 432-563-2200 Fax #: Project #: 15260 Project Owner: Cimarex Project Name: Canyonlands 2 State Can 1H + 2H Project Location: NM Sample Name: Blake Ester				BILL TO P.O. #: Company: Cimarex Attn: Laci Luig Address: City: State: Zip: Phone #: 432-268-3035 Fax #:				ANALYSIS REQUEST			
FOR LAB USE ONLY				LAB I.D.				SAMPLE I.D.			
Relinquished By: <i>[Signature]</i> Relinquished By: <i>[Signature]</i>				Date: 1-11-22 Time: 2:15 pm Date: Time: Received By: <i>[Signature]</i>				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Remarks: Sean@etechenv.com; Blake@etechenv.com; luig@etechenv.com 2 Day Rush per Cust.			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Observed Temp. °C 10.5 Corrected Temp. °C 10.0 Sample Condition Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked BY: (Initials) <i>TS</i>				Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C			
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.				Matrix: <input type="checkbox"/> GROUNDWATER <input type="checkbox"/> WASTEWATER <input type="checkbox"/> SOIL <input type="checkbox"/> OIL <input type="checkbox"/> SLUDGE <input type="checkbox"/> OTHER: Preserv: <input type="checkbox"/> ACID/BASE: <input type="checkbox"/> ICE / COOL <input type="checkbox"/> OTHER: Sampling:				TPH 8015M BETEX 8021B Chlorides			
Lab I.D.				Sample I.D.				Analysis Request			
Relinquished By: <i>[Signature]</i> Relinquished By: <i>[Signature]</i>				Date: 1-11-22 Time: 2:15 pm Date: Time: Received By: <i>[Signature]</i>				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Remarks: Sean@etechenv.com; Blake@etechenv.com; luig@etechenv.com 2 Day Rush per Cust.			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Observed Temp. °C 10.5 Corrected Temp. °C 10.0 Sample Condition Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked BY: (Initials) <i>TS</i>				Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C			
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Lab I.D.				Sample I.D.				Analysis Request			
Relinquished By: <i>[Signature]</i> Relinquished By: <i>[Signature]</i>				Date: 1-11-22 Time: 2:15 pm Date: Time: Received By: <i>[Signature]</i>				Verbal Result: <input type="checkbox"/> Yes <input type="checkbox"/> No Add'l Phone #: Remarks: Sean@etechenv.com; Blake@etechenv.com; luig@etechenv.com 2 Day Rush per Cust.			
Delivered By: (Circle One) Sampler - UPS - Bus - Other:				Observed Temp. °C 10.5 Corrected Temp. °C 10.0 Sample Condition Cool <input type="checkbox"/> Intact <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No Checked BY: (Initials) <i>TS</i>				Turnaround Time: Standard <input type="checkbox"/> Rush <input checked="" type="checkbox"/> Bacteria (only) Sample Condition Cool <input type="checkbox"/> Intact <input type="checkbox"/> Yes <input type="checkbox"/> No Corrected Temp. °C			



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

January 14, 2022

SEAN CARTER

ETECH Environmental & Safety Solutions, Inc.

P. O. BOX 8469

MIDLAND, TX 79708

RE: CANYONLANDS 2 STATE COM 1H & 2H

Enclosed are the results of analyses for samples received by the laboratory on 01/14/22 12:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-21-14. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

Analytical Results For:

ETECH Environmental & Safety Solutions, Inc.
 SEAN CARTER
 P. O. BOX 8469
 MIDLAND TX, 79708
 Fax To: (432) 563-2213

Received:	01/14/2022	Sampling Date:	01/14/2022
Reported:	01/14/2022	Sampling Type:	Soil
Project Name:	CANYONLANDS 2 STATE COM 1H & 2H	Sampling Condition:	** (See Notes)
Project Number:	15260	Sample Received By:	Jodi Henson
Project Location:	CIMAREX - NM		

Sample ID: NSW (H220165-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	01/14/2022	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240
(575) 393-2326 FAX (575) 393-2476

[illegible]

APPENDIX C






USGS Home
Contact USGS
Search USGS

National Water Information System: Web Interface

USGS Water Resources

Data Category: Groundwater Geographic Area: United States

Click to hideNews 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

Agency code = usgs

site_no list =

- 321357103265201

Minimum number of levels = 1

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

USGS 321357103265201 24S.34E.11.112313

Lea County, New Mexico

Latitude 32°14'16.5", Longitude 103°26'49.0" NAD83

Land-surface elevation 3,486 feet above NAVD88

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

This well is completed in the Ogallala Formation (121OGLL) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1976-01-21			D 62610		3443.12	NGVD29	1	Z		
1976-01-21			D 62611		3444.74	NAVD88	1	Z		
1976-01-21			D 72019	41.26			1	Z		
1981-03-19			D 62610		3442.47	NGVD29	1	Z		
1981-03-19			D 62611		3444.09	NAVD88	1	Z		
1981-03-19			D 72019	41.91			1	Z		
1986-03-07			D 62610		3442.53	NGVD29	1	Z		
1986-03-07			D 62611		3444.15	NAVD88	1	Z		
1986-03-07			D 72019	41.85			1	Z		
1991-05-30			D 62610		3442.29	NGVD29	1	Z		
1991-05-30			D 62611		3443.91	NAVD88	1	Z		
1991-05-30			D 72019	42.09			1	Z		
1996-03-13			D 62610		3443.45	NGVD29	1	S		
1996-03-13			D 62611		3445.07	NAVD88	1	S		
1996-03-13			D 72019	40.93			1	S		
2015-12-19	00:00 UTC		m 62610		3440.47	NGVD29	1	S	USGS	
2015-12-19	00:00 UTC		m 62611		3442.09	NAVD88	1	S	USGS	

Date	Time	? Water-level date-time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
2015-12-19	00:00 UTC	m	72019	43.91			1	S	USGS	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	A	Approved for publication -- Processing and review completed.

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[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: 2021-09-14 09:59:13 EDT

0.32 0.28 nadww01



APPENDIX D



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 76305

CONDITIONS

Operator: CIMAREX ENERGY CO. 600 N. Marienfeld Street Midland, TX 79701	OGRID: 215099
	Action Number: 76305
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	Closure report accepted and approved.	2/21/2022