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*Site Information*

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**Closure Report**

**Craig State #3H Battery (11.05.21)**

**Eddy County, New Mexico**

**Unit C, S36, T25S, R26E**

**Incident #: NAPP2132143945**

**32.092219°, -104.249332°**

**Crude Oil Release**

**Source: Equipment failure at the heater**

**Release Date: 11/05/2021**

**Volume Released: 1 bbls/Crude Oil**

**Volume Recovered: 0 bbls/Crude Oil**

**Prepared for:**

**Concho Operating, LLC**

**15 West London Rd**

**Loving, NM 88256**

**Prepared by:**

**NTG Environmental**

**701 Tradewinds Blvd**

**Suite C**

**Midland, TX 79706**



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### **APPENDICES**

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APPENDIX C	LABORATORY ANALYTICAL REPORTS



701 Tradewinds Boulevard, Suite C  
Midland, Texas 79706  
Tel. 432.685.3898  
www.ntglobal.com

December 30, 2021

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

**Re: Closure Report  
Craig State #3H Battery (11.05.21)  
Concho Operating, LLC  
Site Location: Unit C, S36, T25S, R26E  
(Lat 32.092219°, Long -104.249332°)  
Eddy County, New Mexico**

Mr. Bratcher:

On behalf of Concho Operating, LLC (COG), New Tech Global Environmental, LLC (NTGE) has prepared this letter to document remediation activities for Craig State #3H Battery (11.05.21). The site is located at 32.092219°, -104.249332° within Unit C, S36, T25S, R26E, and approximately 9.33 miles Southeast of Whites City, New Mexico, in Eddy County (Figures 1 and 2).

### **Background**

Based on the initial C-141 obtained from the New Mexico Oil Conservation Division (NMOCD), the leak was discovered on November 5, 2021, due to equipment failure at the heater. It resulted in the release of approximately one barrel (1) of crude oil, and zero (0) barrels of crude oil were recovered. The impacted area measured approximately 25' x 12', as shown on Figure 3. The initial C-141 form is attached in Appendix A.

### **Site Characterization**

The site is located within a medium karst area. Based on a review of the New Mexico Office of State Engineers and USGS databases, there is no known water source within a 0.50-mile radius of the location. The nearest identified well is located approximately 0.86 miles Northeast of the site in S25, T25S, R26E. The well has a reported depth to groundwater of 13.96 feet below ground surface (ft bgs). A copy of the associated *Point of Diversion Summary* report is attached in Appendix B.

### **Regulatory Criteria**

In accordance with the NMOCD regulatory criteria established in 19.15.29.12 NMAC, the following criteria were utilized in assessing the site.

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

### **Confirmation Sampling**

New Tech Global Environmental personnel were onsite on December 16, 2021, to conduct site assessment activities and to collect confirmation soil samples of the impacted area resulting from the release. Prior to NTGE collecting confirmation samples, a third-party contractor conducted a 0.5' surface scrape of the impacted area. A total of two (2) confirmation samples were collected (CS-1 and CS-2), and four (4) sidewall samples (SW-1, SW-2, SW-3, and SW-4) were collected every 200 square feet to ensure proper removal of the contaminated soils. All collected samples were analyzed at Cardinal Laboratories in Hobbs, New Mexico. The samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method 8015 modified benzene, toluene, ethylbenzene, and xylenes (BTEX) by EPA Method 8021B, and chloride by EPA method 4500. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The results of the sampling are summarized in Table 1. The excavation depths and confirmation sample locations are shown in Figure 3. All the final confirmation samples were below the 19.15.29.12 NMAC criteria. Refer to Table 1.

Once the remediation activities were completed, the excavated areas were backfilled with clean material to surface grade. Approximately 6 cubic yards of material were excavated and transported offsite for proper disposal.

### **Conclusions**

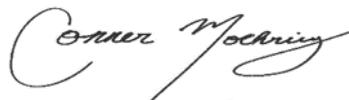
Based on the assessment finding and the analytical results, no further actions are required at the site. The final C-141 is attached, and Concho Operating, LLC formally requests closure of the spill. If you have any questions regarding this report or need additional information, please contact us at 432-813-0263.

Sincerely,

**NTG Environmental**



Mike Carmona  
Senior Project Manager

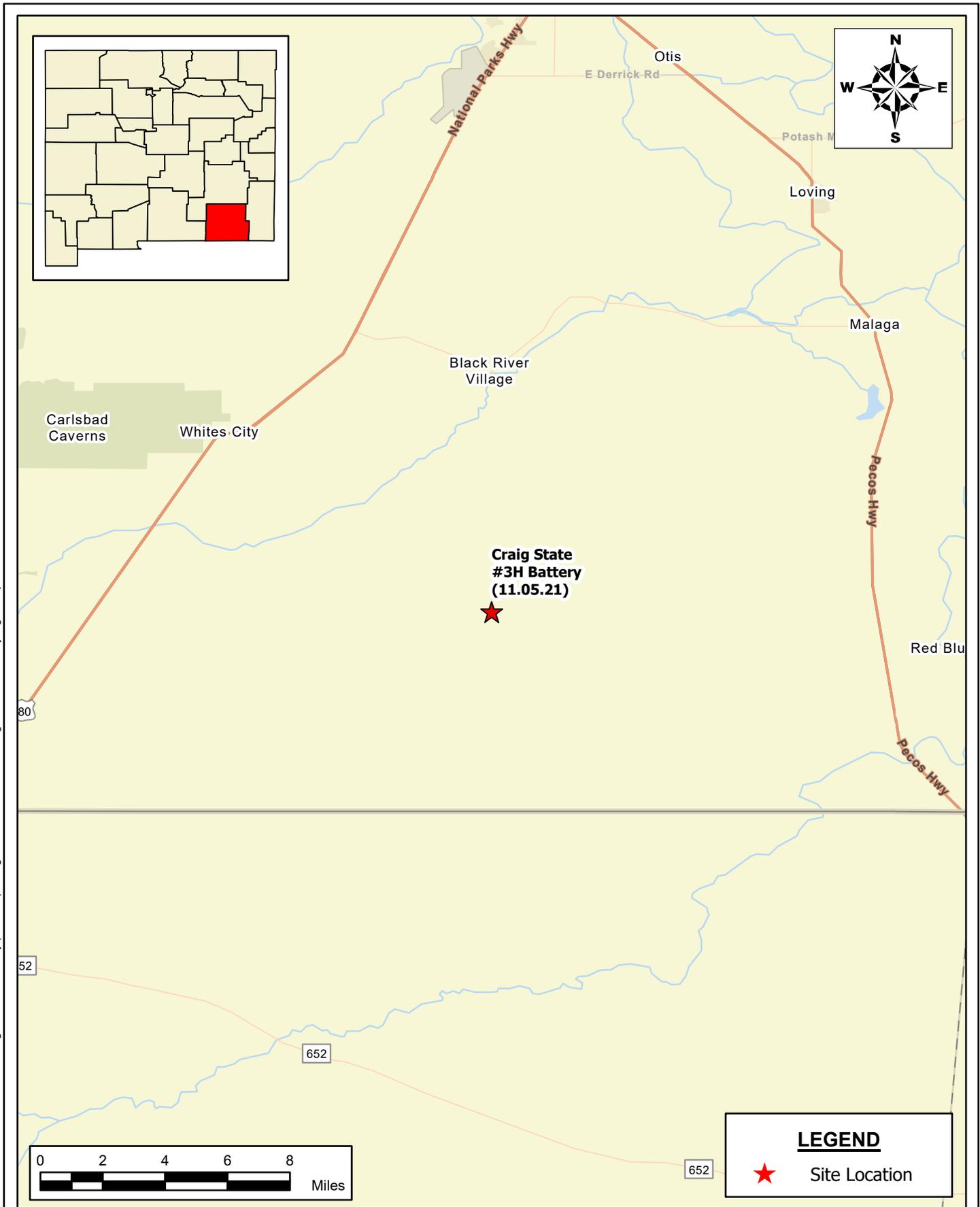


Conner Moehring  
Project Manager

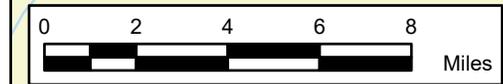


*Figures*

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**LEGEND**

★ Site Location

**SITE LOCATION MAP**  
**COG OPERATING, LLC**  
 CRAIG STATE #3H BATTERY (11.05.21)  
 EDDY COUNTY, NEW MEXICO  
 32.092219, -104.249332

SCALE: As Shown    Date: 12/29/2021    PROJECT #: 214975

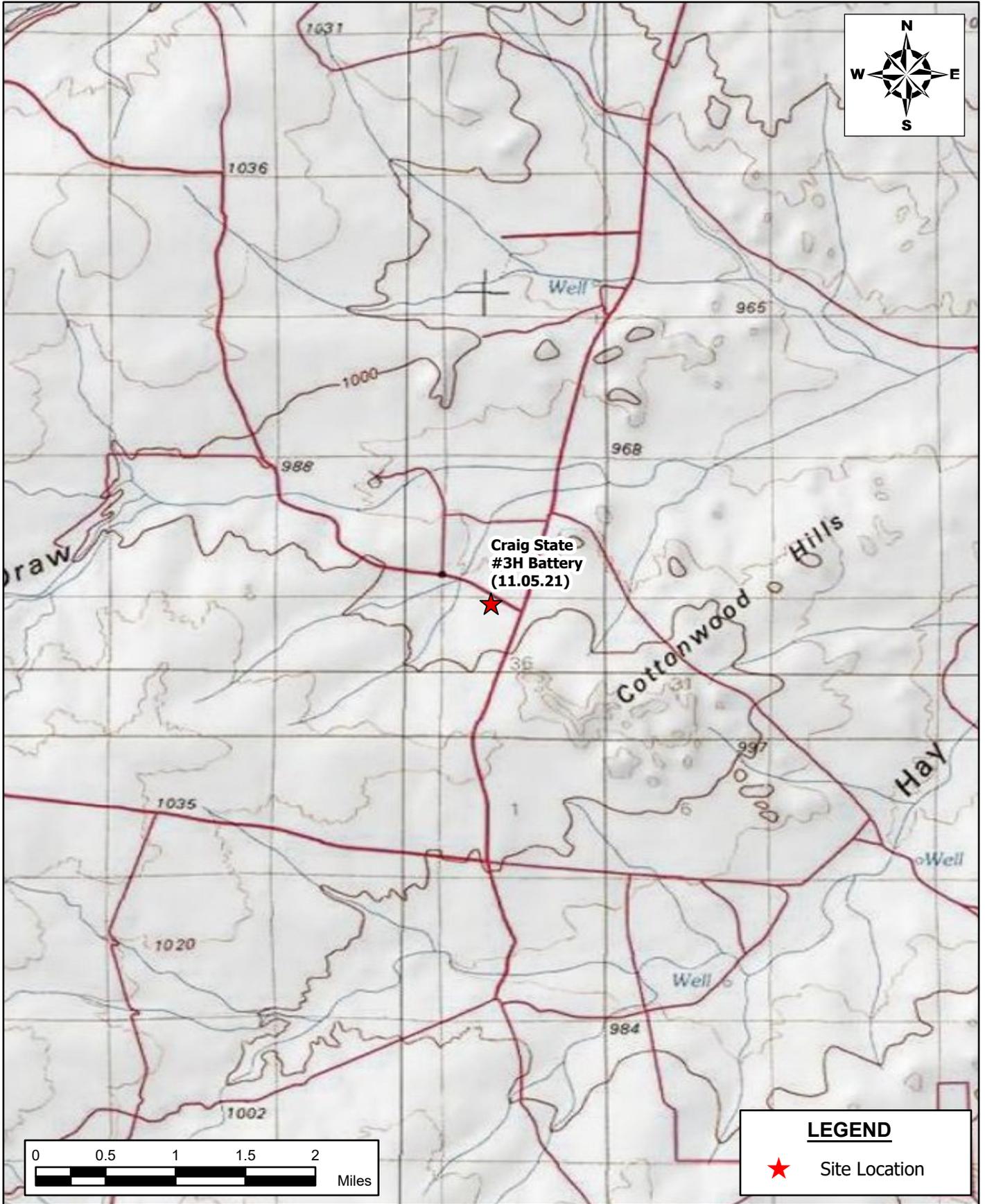
**NTG ENVIRONMENTAL**

**New Tech Global Environmental, LLC**  
 911 Regional Park Drive  
 Houston, Texas 77060  
 T - 281.872.9300  
 F - 281.872.4521  
 Web: www.ntglobal.com

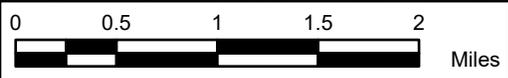
**NOTES:**

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:  
**FIGURE 1**  
 SHEET NUMBER:  
**1 of 1**



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**LEGEND**

★ Site Location

**AREA MAP**  
**COG OPERATING, LLC**  
 CRAIG STATE #3H BATTERY (11.05.21)  
 EDDY COUNTY, NEW MEXICO  
 32.092219, -104.249332

SCALE: As Shown    Date: 12/29/2021    PROJECT #: 214975

 **NTG ENVIRONMENTAL**

**New Tech Global Environmental, LLC**  
 911 Regional Park Drive  
 Houston, Texas 77060  
 T - 281.872.9300  
 F - 281.872.4521  
 Web: www.ntglobal.com

**NOTES:**

1. Base Image: ESRI Maps & Data 2013
2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:  
**FIGURE 2**

SHEET NUMBER:  
**1 of 1**

Document Path: P:\2021 PROJECTS\COGRSC\214975 - Craig State #3H Battery - Craig State #3H Battery (11.05.21)\7 - Figures\GIS\Geodatabase\Craig State #3H Battery Figures.aprx



**LEGEND**

- Point of Release
- Sidewall Samples
- Conformation Samples
- Buried Electrical
- Surface Flare Line
- 0.5 ft Excavation



**EXCAVATION DEPTH MAP**  
**COG OPERATING, LLC**  
 CRAIG STATE #3H BATTERY (11.05.21)  
 EDDY COUNTY, NEW MEXICO  
 32.092219, -104.249332

SCALE: As Shown    Date: 12/29/2021    PROJECT #: 214975

**NTG ENVIRONMENTAL**  
 New Tech Global Environmental, LLC  
 911 Regional Park Drive  
 Houston, Texas 77060  
 T - 281.872.9300  
 F - 281.872.4521  
 Web: www.ntglobal.com

**NOTES:**  
 1. Base Image: ESRI Maps & Data 2013  
 2. Map Projection: NAD 1983 UTM Zone 13N

DRAWING NUMBER:  
**FIGURE 3**  
 SHEET NUMBER:  
**1 of 1**



*Tables*

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**Table 1**  
**COG Operating, LLC**  
**Craig State #3H Battery (11.05.21)**  
**Eddy County, New Mexico**

Sample ID	Date	Sample Depth (ft)	TPH (mg/kg)				Benzene (mg/kg)	Toluene (mg/kg)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
			GRO	DRO	MRO	Total						
<b>CS-1</b>	12/16/2021	0.5'	<10.0	33.5	<10.0	33.5	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
<b>CS-2</b>	12/16/2021	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
<b>SW-1</b>	12/16/2021	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
<b>SW-2</b>	12/16/2021	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
<b>SW-3</b>	12/16/2021	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
<b>SW-4</b>	12/16/2021	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
<b>Regulatory Limits</b>						<b>100 mg/kg</b>	<b>10 mg/kg</b>	-	-	-	<b>50 mg/kg</b>	<b>600 mg/kg</b>

(-) Not Analyzed

A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet



*Photo Log*

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# PHOTOGRAPHIC LOG

COG Operating, LLC

## Photograph No. 1

**Facility:** Craig State #3H Battery (11.05.21)

**County:** Eddy County, New Mexico

**Description:**

View Southeast, area of confirmation samples (1-2).



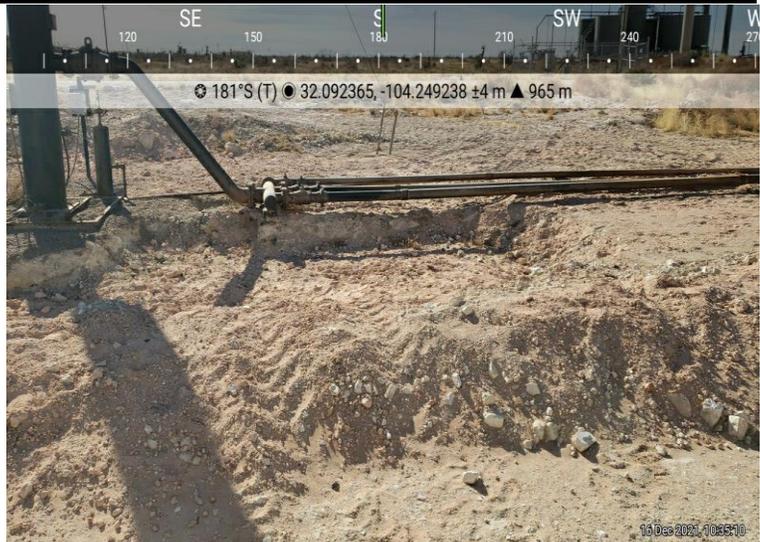
## Photograph No. 2

**Facility:** Craig State #3H Battery (11.05.21)

**County:** Eddy County, New Mexico

**Description:**

View South, area of confirmation samples (1-2).





*Appendix A*

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	
District RP	
Facility ID	
Application ID	

## Release Notification

### Responsible Party

Responsible Party	OGRID
Contact Name	Contact Telephone
Contact email	Incident # (assigned by OCD)
Contact mailing address	

### Location of Release Source

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

Site Name	Site Type
Date Release Discovered	API# (if applicable)

Unit Letter	Section	Township	Range	County

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 type="checkbox"/> Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input type="checkbox"/> Yes <input type="checkbox"/> No
<input type="checkbox"/> Condensate	Volume Released (bbls)	Volume Recovered (bbls)
<input type="checkbox"/> Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
<input type="checkbox"/> Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

State of New Mexico  
Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?  <input type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

### Initial Response

*The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury*

<input type="checkbox"/> The source of the release has been stopped. <input type="checkbox"/> The impacted area has been secured to protect human health and the environment. <input type="checkbox"/> Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices. <input type="checkbox"/> All free liquids and recoverable materials have been removed and managed appropriately.
If all the actions described above have <u>not</u> been undertaken, explain why:
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: _____ Title: _____ Signature: <u>Patricia Zapanta</u> _____ Date: _____ email: _____ Telephone: _____
<b><u>OCD Only</u></b> Received by: _____ Date: _____

Incident ID	
District RP	
Facility ID	
Application ID	

## Site Assessment/Characterization

*This information must be provided to the appropriate district office no later than 90 days after the release discovery date.*

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	<input type="checkbox"/> Yes <input 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 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 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 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 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 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 type="checkbox"/> No
Are the lateral extents of the release overlying a subsurface mine?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release overlying an unstable area such as karst geology?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Are the lateral extents of the release within a 100-year floodplain?	<input type="checkbox"/> Yes <input type="checkbox"/> No
Did the release impact areas <b>not</b> on an exploration, development, production, or storage site?	<input type="checkbox"/> Yes <input 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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Incident ID	
District RP	
Facility ID	
Application ID	

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: \_\_\_\_\_ Title: \_\_\_\_\_

Signature: Jaques Harris Date: \_\_\_\_\_

email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

State of New Mexico  
Oil Conservation Division

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Incident ID	
District RP	
Facility ID	
Application ID	

## Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

**Closure Report Attachment Checklist:** *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_  
 Signature: Jaques Heron Date: \_\_\_\_\_  
 email: \_\_\_\_\_ Telephone: \_\_\_\_\_

**OCD Only**

Received by: \_\_\_\_\_ Date: \_\_\_\_\_

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Jennifer Nobui Date: \_\_\_\_\_

Printed Name: \_\_\_\_\_ Title: \_\_\_\_\_



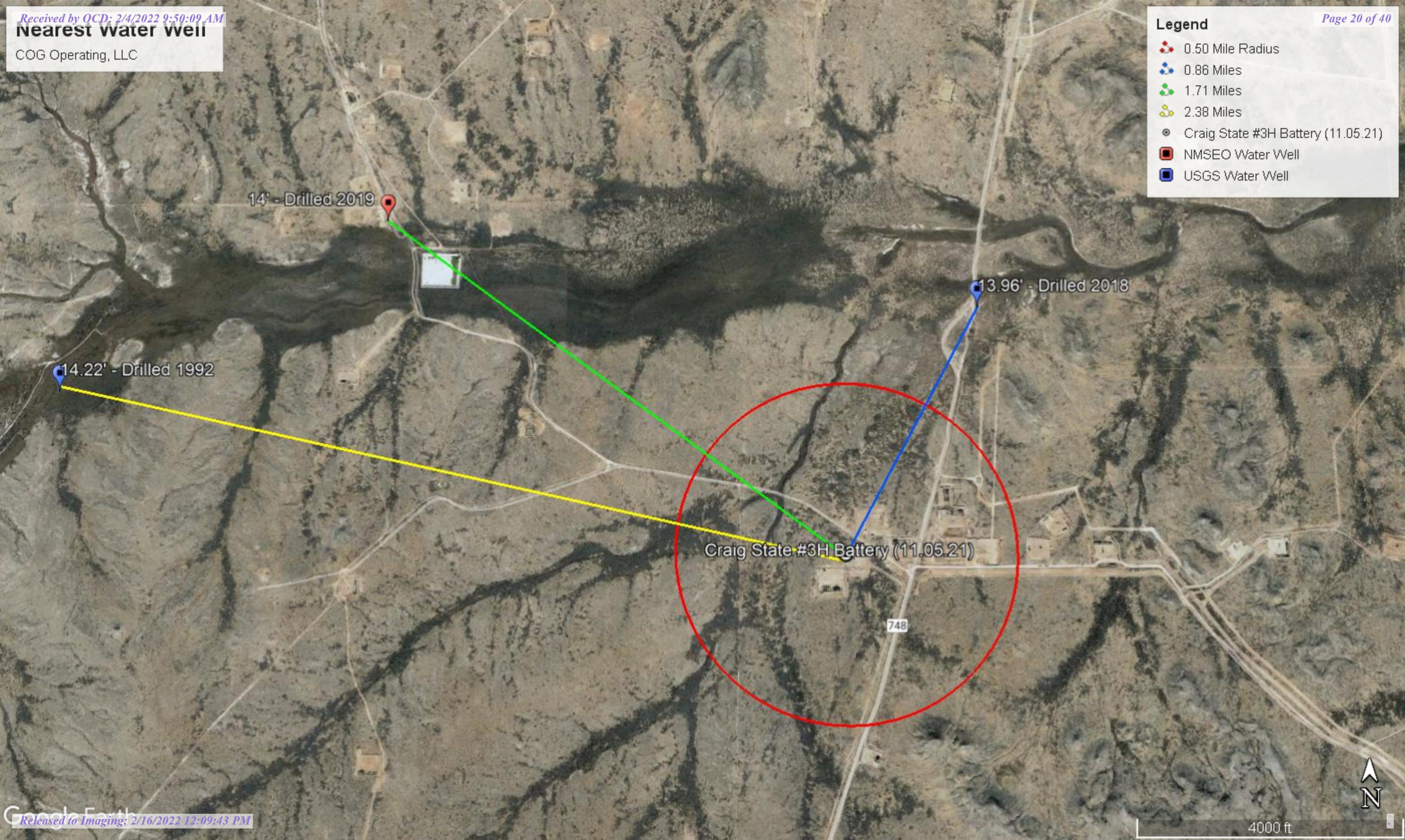
*Appendix B*

# Nearest water well

COG Operating, LLC

**Legend**

-  0.50 Mile Radius
-  0.86 Miles
-  1.71 Miles
-  2.38 Miles
-  Craig State #3H Battery (11.05.21)
-  NMSEO Water Well
-  USGS Water Well



14' - Drilled 2019

13.96' - Drilled 2018

14.22' - Drilled 1992

Craig State #3H Battery (11.05.21)

748



4000 ft

# Medium Karst

COG Operating, LLC

**Legend**

- Craig State #3H Battery (11.05.21)
- MEDIUM





# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)  
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<a href="#">C 01013</a>	C	ED		4	25	25S	26E			571505	3551456*	862	245		
<a href="#">C 02221</a>	CUB	ED		4	3	2	25	25S	26E	571412	3551961*	1175	35		
<a href="#">C 02220</a>	CUB	ED		3	1	2	26	25S	26E	569598	3552352*	1842	35		
<a href="#">C 04329 POD1</a>	C	ED		2	2	2	27	25S	26E	568577	3552567	2746	57	14	43
<a href="#">C 03654 POD1</a>	CUB	ED		2	3	1	24	25S	26E	570654	3553773	2820			
<a href="#">C 03655 POD3</a>	CUB	ED		1	4	4	22	25S	26E	568458	3553019	3121			

Average Depth to Water: **14 feet**  
Minimum Depth: **14 feet**  
Maximum Depth: **14 feet**

Record Count: 6

**UTMNAD83 Radius Search (in meters):**

**Easting (X):** 570801.35

**Northing (Y):** 3550956.51

**Radius:** 4000

\*UTM location was derived from PLSS - see Help

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



**National Water Information System: Web Interface**

USGS Water Resources Data Category: Groundwater  Geographic Area: New Mexico

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

**I** Important: [Next Generation Monitoring Location Page](#)

**Search Results -- 1 sites found**

Agency code = usgs  
 site\_no list = 

- 320616104142801

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

**USGS 320616104142801 25S.26E.25.23231**

Eddy County, New Mexico  
 Latitude 32°06'12.6", Longitude 104°14'33.9" NAD83  
 Land-surface elevation 3,188.60 feet above NGVD29  
 This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
 This well is completed in the Castile Formation (312CSTL) local aquifer.

**Output formats**

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

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
1978-01-25			D 62610		3184.39	NGVD29	1	Z		
1978-01-25			D 62611		3186.05	NAVD88	1	Z		
1978-01-25			D 72019	4.21			1	Z		
1983-02-01			D 62610		3185.96	NGVD29	1	Z		
1983-02-01			D 62611		3187.62	NAVD88	1	Z		
1983-02-01			D 72019	2.64			1	Z		
1987-10-08			D 62610		3185.63	NGVD29	1	Z		
1987-10-08			D 62611		3187.29	NAVD88	1	Z		
1987-10-08			D 72019	2.97			1	Z		
1992-11-04			D 62610		3186.55	NGVD29	1	S		
1992-11-04			D 62611		3188.21	NAVD88	1	S		
1992-11-04			D 72019	2.05			1	S		
1998-01-07			D 62610		3186.62	NGVD29	1	S		
1998-01-07			D 62611		3188.28	NAVD88	1	S		
1998-01-07			D 72019	1.98			1	S		

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
2003-01-28		D	62610		3181.38	NGVD29	1	S	USGS	
2003-01-28		D	62611		3183.04	NAVD88	1	S	USGS	
2003-01-28		D	72019	7.22			1	S	USGS	
2013-01-09	22:45 UTC	m	62610		3177.78	NGVD29	1	S	USGS	
2013-01-09	22:45 UTC	m	62611		3179.44	NAVD88	1	S	USGS	
2013-01-09	22:45 UTC	m	72019	10.82			1	S	USGS	
2018-02-13	22:15 UTC	m	62610		3174.64	NGVD29	1	S	USGS	
2018-02-13	22:15 UTC	m	62611		3176.30	NAVD88	1	S	USGS	
2018-02-13	22:15 UTC	m	72019	13.96			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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Title: Groundwater for New Mexico: Water Levels

URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>



Page Contact Information: [New Mexico Water Data Maintainer](#)

Page Last Modified: 2021-12-12 20:48:10 EST

0.31 0.26 nadww01



# New Mexico Office of the State Engineer

## Point of Diversion Summary

		(quarters are 1=NW 2=NE 3=SW 4=SE)						
<b>Well Tag</b>	<b>POD Number</b>	(quarters are smallest to largest)	(NAD83 UTM in meters)					
		<b>Q64 Q16 Q4 Sec TwS Rng</b>	<b>X Y</b>					
222B5	C 04329 POD1	2 2 2 27 25S 26E	568577 3552567					

<b>Driller License:</b> 1348	<b>Driller Company:</b> TAYLOR WATER WELL SERVICE	
<b>Driller Name:</b> CLINTON E TAYLOR		
<b>Drill Start Date:</b> 06/07/2019	<b>Drill Finish Date:</b> 06/08/2019	<b>Plug Date:</b>
<b>Log File Date:</b> 06/17/2019	<b>PCW Rev Date:</b>	<b>Source:</b> Shallow
<b>Pump Type:</b>	<b>Pipe Discharge Size:</b>	<b>Estimated Yield:</b> 100 GPM
<b>Casing Size:</b> 4.50	<b>Depth Well:</b> 57 feet	<b>Depth Water:</b> 14 feet

Water Bearing Stratifications:	Top	Bottom	Description
	14	24	Other/Unknown
	24	57	Other/Unknown

Casing Perforations:	Top	Bottom
	20	57

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

12/12/21 6:54 PM

POINT OF DIVERSION SUMMARY



**National Water Information System: Web Interface**

USGS Water Resources Data Category: Groundwater  Geographic Area: New Mexico

Click to hide News Bulletins

- Explore the *NEW* [USGS National Water Dashboard](#) interactive map to access real-time water data from over 13,500 stations nationwide.
- [Full News](#)

Groundwater levels for New Mexico

Click to hide state-specific text

**I** Important: [Next Generation Monitoring Location Page](#)

**Search Results -- 1 sites found**

Agency code = usgs  
 site\_no list = 

- 320559104172201

Minimum number of levels = 1  
[Save file of selected sites](#) to local disk for future upload

**USGS 320559104172201 25S.26E.28.423113**

Eddy County, New Mexico  
 Latitude 32°05'59", Longitude 104°17'22" NAD27  
 Land-surface elevation 3,283 feet above NAVD88  
 This well is completed in the Other aquifers (N9999OTHER) national aquifer.  
 This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

**Output formats**

<a href="#">Table of data</a>
<a href="#">Tab-separated data</a>
<a href="#">Graph of data</a>
<a href="#">Reselect period</a>

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
1983-02-01			D 62610		3266.82	NGVD29	1	Z		
1983-02-01			D 62611		3268.50	NAVD88	1	Z		
1983-02-01			D 72019	14.50			1	Z		
1987-10-08			D 62610		3268.06	NGVD29	1	Z		
1987-10-08			D 62611		3269.74	NAVD88	1	Z		
1987-10-08			D 72019	13.26			1	Z		
1992-11-19			D 62610		3267.10	NGVD29	3	S		
1992-11-19			D 62611		3268.78	NAVD88	3	S		
1992-11-19			D 72019	14.22			3	S		

**Explanation**

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day

Section	Code	Description
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
Status	3	True value is above reported value due to local conditions
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

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**Title: Groundwater for New Mexico: Water Levels**

**URL: <https://nwis.waterdata.usgs.gov/nm/nwis/gwlevels?>**

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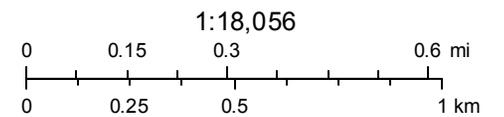
Page Last Modified: 2021-12-12 20:57:54 EST

0.31 0.28 nadww02

# New Mexico NFHL Data



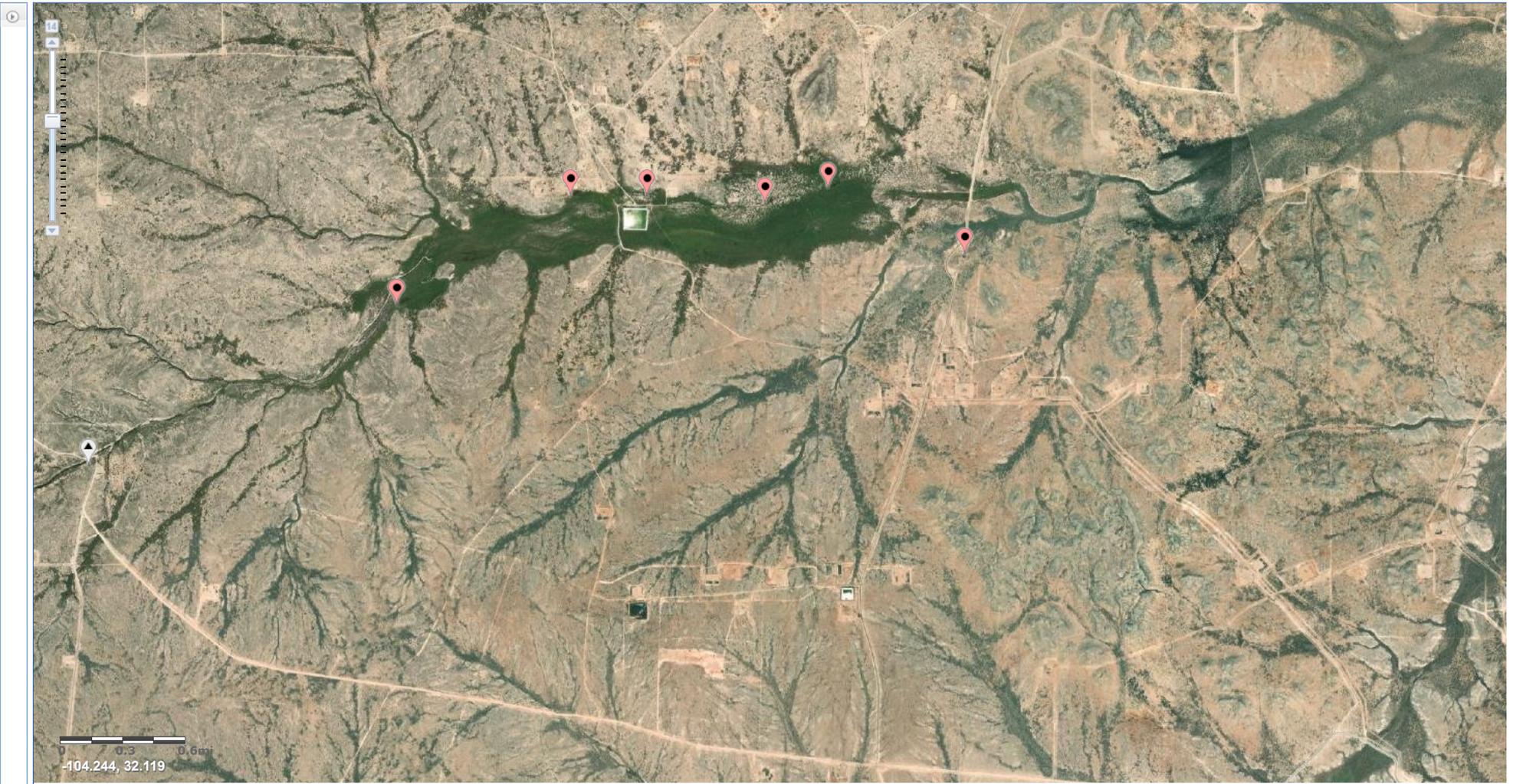
December 12, 2021



FEMA  
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS,



National Water Information System: Mapper



Site Information



*Appendix C*

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

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December 20, 2021

MIKE CARMONA

NTG ENVIRONMENTAL

701 TRADEWINDS BLVD. SUITE C

MIDLAND, TX 79706

RE: CRAIG STATE #3H BATTERY

Enclosed are the results of analyses for samples received by the laboratory on 12/16/21 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](http://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".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 MIKE CARMONA  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	12/16/2021	Sampling Date:	12/16/2021
Reported:	12/20/2021	Sampling Type:	Soil
Project Name:	CRAIG STATE #3H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	214975 ( 11.05.21 )	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

**Sample ID: CS - 1 ( 0.5' ) (H213633-01)**

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	12/17/2021	ND	2.11	105	2.00	1.12		
Toluene*	<0.050	0.050	12/17/2021	ND	2.00	99.8	2.00	1.05		
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	2.00	100	2.00	1.29		
Total Xylenes*	<0.150	0.150	12/17/2021	ND	6.21	103	6.00	1.49		
Total BTEX	<0.300	0.300	12/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 94.3 % 69.9-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/16/2021	ND	400	100	400	0.00		

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	12/17/2021	ND	220	110	200	3.08		
<b>DRO &gt;C10-C28*</b>	<b>33.5</b>	10.0	12/17/2021	ND	226	113	200	1.10		
EXT DRO >C28-C36	<10.0	10.0	12/17/2021	ND						

Surrogate: 1-Chlorooctane 86.6 % 62-130

Surrogate: 1-Chlorooctadecane 88.6 % 54.5-135

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

NTG ENVIRONMENTAL  
 MIKE CARMONA  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	12/16/2021	Sampling Date:	12/16/2021
Reported:	12/20/2021	Sampling Type:	Soil
Project Name:	CRAIG STATE #3H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	214975 ( 11.05.21 )	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

**Sample ID: CS - 2 ( 0.5' ) (H213633-02)**

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	12/17/2021	ND	2.11	105	2.00	1.12	
Toluene*	<0.050	0.050	12/17/2021	ND	2.00	99.8	2.00	1.05	
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	2.00	100	2.00	1.29	
Total Xylenes*	<0.150	0.150	12/17/2021	ND	6.21	103	6.00	1.49	
Total BTEX	<0.300	0.300	12/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 93.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	12/16/2021	ND	400	100	400	0.00	

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	12/17/2021	ND	220	110	200	3.08	
DRO >C10-C28*	<10.0	10.0	12/17/2021	ND	226	113	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	12/17/2021	ND					

Surrogate: 1-Chlorooctane 93.9 % 62-130

Surrogate: 1-Chlorooctadecane 95.0 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 MIKE CARMONA  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	12/16/2021	Sampling Date:	12/16/2021
Reported:	12/20/2021	Sampling Type:	Soil
Project Name:	CRAIG STATE #3H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	214975 ( 11.05.21 )	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

**Sample ID: SW - 1 (H213633-03)**

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	12/17/2021	ND	2.11	105	2.00	1.12	
Toluene*	<0.050	0.050	12/17/2021	ND	2.00	99.8	2.00	1.05	
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	2.00	100	2.00	1.29	
Total Xylenes*	<0.150	0.150	12/17/2021	ND	6.21	103	6.00	1.49	
Total BTEX	<0.300	0.300	12/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	12/16/2021	ND	400	100	400	0.00	

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	12/17/2021	ND	220	110	200	3.08	
DRO >C10-C28*	<10.0	10.0	12/17/2021	ND	226	113	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	12/17/2021	ND					

Surrogate: 1-Chlorooctane 68.7 % 62-130

Surrogate: 1-Chlorooctadecane 67.9 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 MIKE CARMONA  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	12/16/2021	Sampling Date:	12/16/2021
Reported:	12/20/2021	Sampling Type:	Soil
Project Name:	CRAIG STATE #3H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	214975 ( 11.05.21 )	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

**Sample ID: SW - 2 (H213633-04)**

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	12/17/2021	ND	2.11	105	2.00	1.12		
Toluene*	<0.050	0.050	12/17/2021	ND	2.00	99.8	2.00	1.05		
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	2.00	100	2.00	1.29		
Total Xylenes*	<0.150	0.150	12/17/2021	ND	6.21	103	6.00	1.49		
Total BTEX	<0.300	0.300	12/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 93.6 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/16/2021	ND	400	100	400	0.00		

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	12/17/2021	ND	220	110	200	3.08		
DRO >C10-C28*	<10.0	10.0	12/17/2021	ND	226	113	200	1.10		
EXT DRO >C28-C36	<10.0	10.0	12/17/2021	ND						

Surrogate: 1-Chlorooctane 102 % 62-130

Surrogate: 1-Chlorooctadecane 101 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 MIKE CARMONA  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	12/16/2021	Sampling Date:	12/16/2021
Reported:	12/20/2021	Sampling Type:	Soil
Project Name:	CRAIG STATE #3H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	214975 ( 11.05.21 )	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

**Sample ID: SW - 3 (H213633-05)**

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	12/17/2021	ND	2.11	105	2.00	1.12		
Toluene*	<0.050	0.050	12/17/2021	ND	2.00	99.8	2.00	1.05		
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	2.00	100	2.00	1.29		
Total Xylenes*	<0.150	0.150	12/17/2021	ND	6.21	103	6.00	1.49		
Total BTEX	<0.300	0.300	12/17/2021	ND						

Surrogate: 4-Bromofluorobenzene (PID) 92.3 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	12/16/2021	ND	400	100	400	0.00		

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	12/17/2021	ND	220	110	200	3.08		
DRO >C10-C28*	<10.0	10.0	12/17/2021	ND	226	113	200	1.10		
EXT DRO >C28-C36	<10.0	10.0	12/17/2021	ND						

Surrogate: 1-Chlorooctane 64.2 % 62-130

Surrogate: 1-Chlorooctadecane 61.6 % 54.5-135

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

NTG ENVIRONMENTAL  
 MIKE CARMONA  
 701 TRADEWINDS BLVD. SUITE C  
 MIDLAND TX, 79706  
 Fax To:

Received:	12/16/2021	Sampling Date:	12/16/2021
Reported:	12/20/2021	Sampling Type:	Soil
Project Name:	CRAIG STATE #3H BATTERY	Sampling Condition:	Cool & Intact
Project Number:	214975 ( 11.05.21 )	Sample Received By:	Tamara Oldaker
Project Location:	COG - EDDY CO NM		

**Sample ID: SW - 4 (H213633-06)**

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	12/17/2021	ND	2.11	105	2.00	1.12	
Toluene*	<0.050	0.050	12/17/2021	ND	2.00	99.8	2.00	1.05	
Ethylbenzene*	<0.050	0.050	12/17/2021	ND	2.00	100	2.00	1.29	
Total Xylenes*	<0.150	0.150	12/17/2021	ND	6.21	103	6.00	1.49	
Total BTEX	<0.300	0.300	12/17/2021	ND					

Surrogate: 4-Bromofluorobenzene (PID) 94.0 % 69.9-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/16/2021	ND	400	100	400	0.00	

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	12/17/2021	ND	220	110	200	3.08	
DRO >C10-C28*	<10.0	10.0	12/17/2021	ND	226	113	200	1.10	
EXT DRO >C28-C36	<10.0	10.0	12/17/2021	ND					

Surrogate: 1-Chlorooctane 85.1 % 62-130

Surrogate: 1-Chlorooctadecane 84.7 % 54.5-135

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- 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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**Oil Conservation Division**  
**1220 S. St Francis Dr.**  
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CONDITIONS  
 Action 78530

**CONDITIONS**

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 78530
	Action Type: [C-141] Release Corrective Action (C-141)

**CONDITIONS**

Created By	Condition	Condition Date
jnobui	None	2/16/2022