



Site Information

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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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.

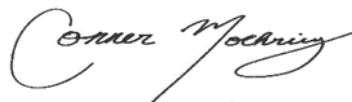
Conclusions

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

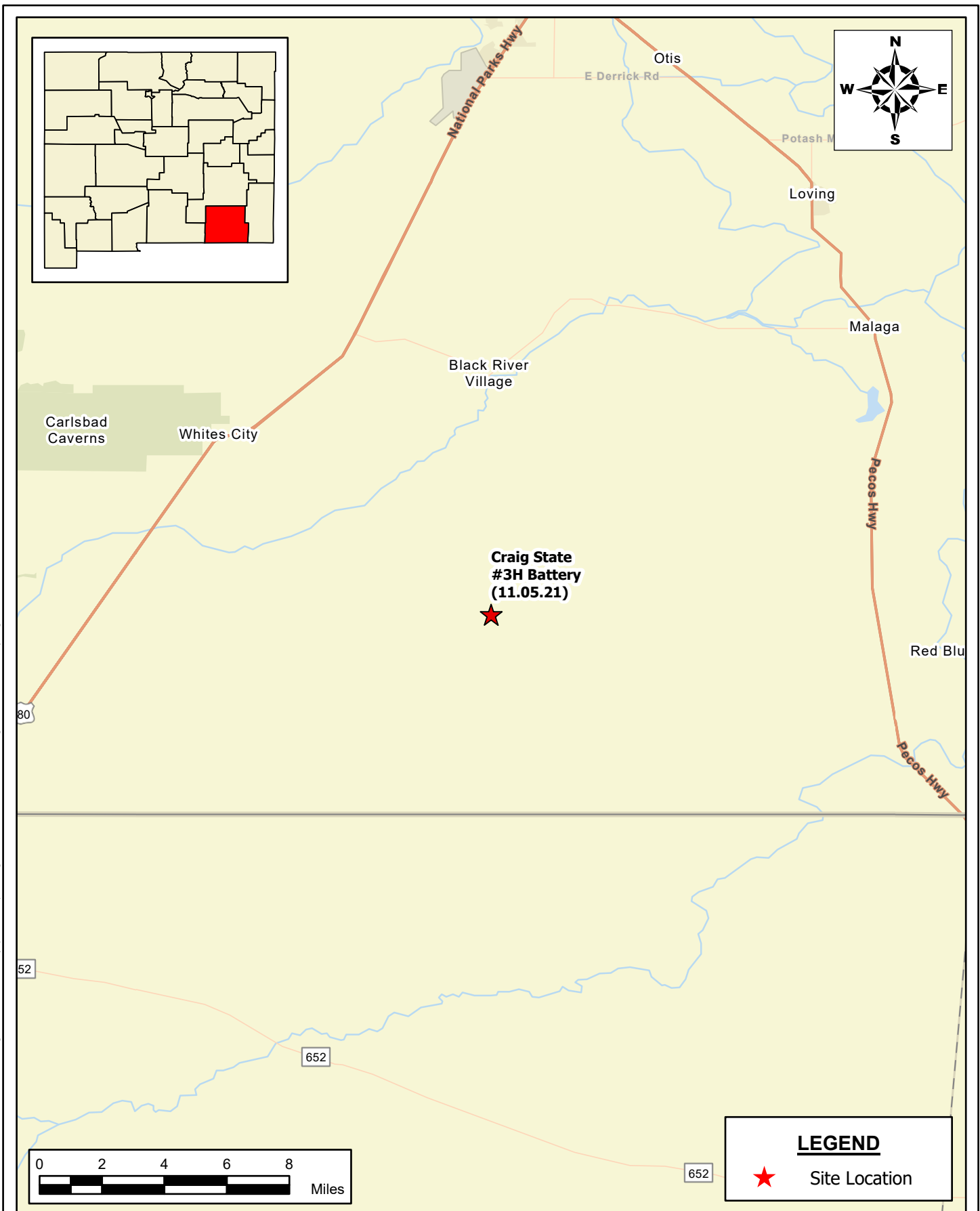


Conner Moehring
Project Manager



Figures

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



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

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

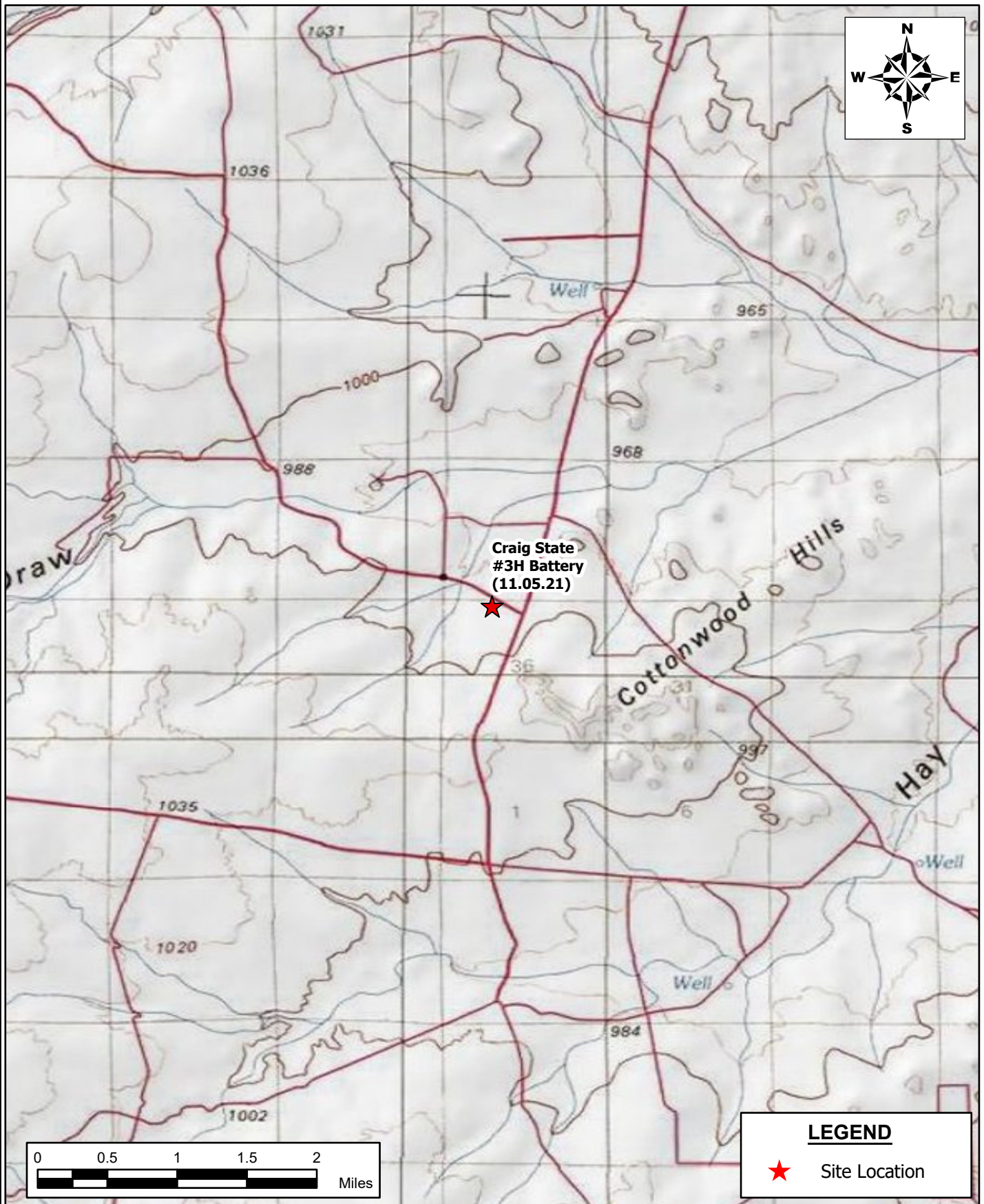
DRAWING NUMBER:

FIGURE 1

SHEET NUMBER:

1 of 1

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



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



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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 (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



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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

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						
CS-1	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
CS-2	12/16/2021	0.5'	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	240
SW-1	12/16/2021	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	32.0
SW-2	12/16/2021	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-3	12/16/2021	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	<16.0
SW-4	12/16/2021	-	<10.0	<10.0	<10.0	<10.0	<0.050	<0.050	<0.050	<0.150	<0.300	80.0
Regulatory Limits						100 mg/kg	10 mg/kg	-	-	-	50 mg/kg	600 mg/kg

(-) Not Analyzed

A – Table 1 - 19.15.29 NMAC

mg/kg - milligram per kilogram

TPH- Total Petroleum Hydrocarbons

ft-feet



Photo Log

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).



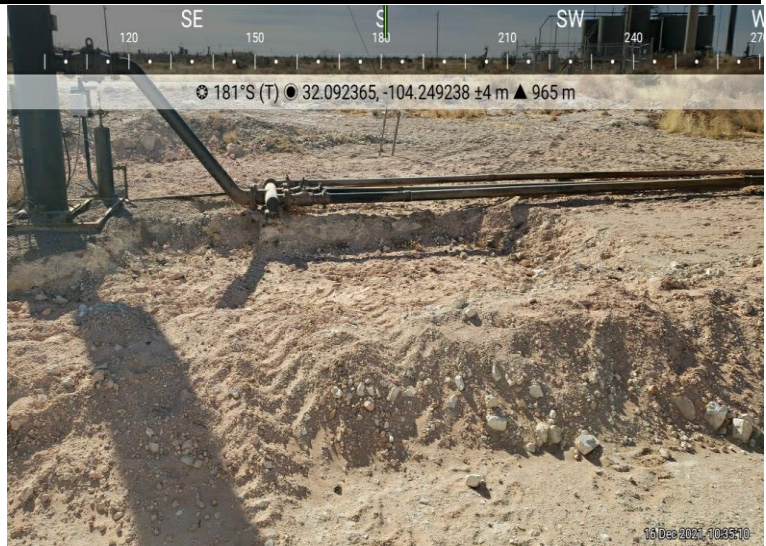
Photograph No. 2

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		

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: _____
<u>OCD Only</u>	
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 not 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

Page 4

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: Jacqueline Harris Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

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: Jacques Morris 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: _____



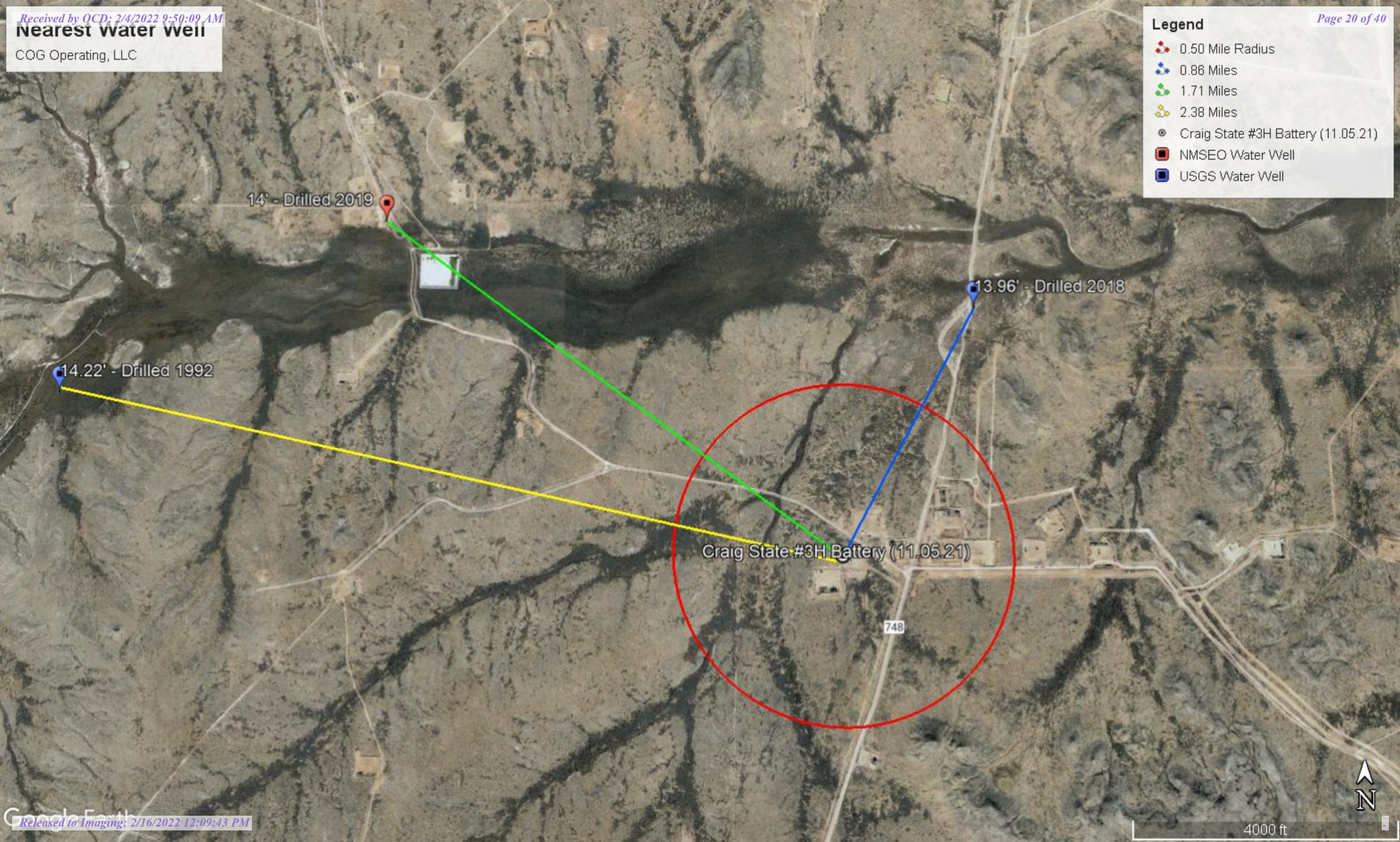
Appendix B

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



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
C 01013	C		ED			4	25	25S	26E	571505	3551456*	862	245		
C 02221	CUB		ED	4	3	2	25	25S	26E	571412	3551961*	1175	35		
C 02220	CUB		ED	3	1	2	26	25S	26E	569598	3552352*	1842	35		
C 04329 POD1	C		ED	2	2	2	27	25S	26E	568577	3552567	2746	57	14	43
C 03654 POD1	CUB		ED	2	3	1	24	25S	26E	570654	3553773	2820			
C 03655 POD3	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.

12/12/21 6:53 PM

Page 1 of 1

WATER COLUMN/ AVERAGE
DEPTH TO WATER



[USGS Home](#)
[Contact USGS](#)
[Search USGS](#)

National Water Information System: Web Interface

[USGS Water Resources](#)

Data Category:

Groundwater

▼


Geographic Area:

New Mexico

▼

GO

Click to hide News Bulletins

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

Groundwater levels for New Mexico

Click to hide state-specific text

! 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

[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 measure
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.

[Questions about sites/data?](#)

[Feedback on this web site](#)

[Automated retrievals](#)

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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)				(quarters are smallest to largest)				(NAD83 UTM in meters)	
Well Tag	POD Number	Q64	Q16	Q4	Sec	Tws	Rng	X	Y		
222B5	C 04329 POD1	2	2	2	27	25S	26E	568577	3552567		
Driller License: 1348		Driller Company:				TAYLOR WATER WELL SERVICE					
Driller Name:		CLINTON E TAYLOR									
Drill Start Date: 06/07/2019		Drill Finish Date:				06/08/2019		Plug Date:			
Log File Date: 06/17/2019		PCW Rev Date:				Source:				Shallow	
Pump Type:		Pipe Discharge Size:				Estimated Yield:				100 GPM	
Casing Size: 4.50		Depth Well:				57 feet		Depth Water: 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



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National Water Information System: Web Interface[USGS Water Resources](#)


Data Category:
Groundwater

Geographic Area:
New Mexico

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- [Full News](#) 

Groundwater levels for New Mexico



Click to hide state-specific text



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

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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?>



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

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

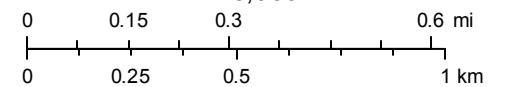
0.31 0.28 nadww02

New Mexico NFHL Data



December 12, 2021

1:18,056



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



National Water Information System: Mapper



Site Information



Appendix C



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

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.

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:

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	
DRO >C10-C28*	33.5	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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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: CS - 2 (0.5') (H213633-02)

BTX 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 BTX	<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, SM4500Cl-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



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
 Reported: 12/20/2021
 Project Name: CRAIG STATE #3H BATTERY
 Project Number: 214975 (11.05.21)
 Project Location: COG - EDDY CO NM

Sampling Date: 12/16/2021
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Tamara Oldaker

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, SM4500Cl-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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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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A handwritten signature in black ink, appearing to read "Celey D. Keene".

Celey D. Keene, Lab Director/Quality Manager



Chain of Custody

Work Order No.:

42/3633

Page 9 of 9

Project Manager:	Mike Carmona	Bill to: (if different)	Jacqui Harris
Company Name:	NTG Environmental	Company Name:	COG
Address:	701 Tradewinds BLVD	Address:	15 W Loving Rd
City, State ZIP:	Midland, TX 79706	City, State ZIP:	Loving, NM 88256
Phone:	432-813-0263	Email:	jacqui.harris@conocophillips.com / 432-312-7736

Page _____ of _____
Work Order Comments
Program: UST/PST <input type="checkbox"/> PRP <input type="checkbox"/> Brownfields <input type="checkbox"/> RRC <input type="checkbox"/> Superfund <input type="checkbox"/> State of Project: Reporting: Level II <input type="checkbox"/> Level III <input type="checkbox"/> PST/UST <input type="checkbox"/> RRP <input type="checkbox"/> Level IV <input type="checkbox"/> Deliverables: EDD <input type="checkbox"/> ADAPT <input type="checkbox"/> Other: _____

Project Name:		Craig State #3H Battery (11.05.21)		Turn Around		ANALYSIS REQUEST										Preservative Codes					
Project Number:		21497/5		<input checked="" type="checkbox"/> Routine <input type="checkbox"/> Rush														None: NO		DI Water: H ₂ O	
Project Location		Eddy Co, NM		Due Date:														Cool: Cool		MeOH: Me	
Sampler's Name:		ES		TAT starts the day received by the lab, if received by 4:30pm														HCL: HC		HNO ₃ : HN	
PO #:																		H ₂ SO ₄ : H ₂		NaOH: Na	
SAMPLE RECEIPT				Temp Blank:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>										H ₃ PO ₄ : HP			
Received Intact:		Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>		Thermometer ID:		113												NaHSO ₄ : NABIS			
Cooler Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Correction Factor:		-0.5°C												Na ₂ S ₂ O ₃ : NaSO ₃			
Sample Custody Seals:		Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		Temperature Reading:		0.3°C												Zn Acetate+NaOH: Zn			
Total Containers:				Corrected Temperature:		-0.3°C												NaOH+Ascorbic Acid: SAPC			
Parameters						Pres. Code		BTX 8021B										HOLD			
								8015M (GRO + DRO + MRO)													
								Chloride 4500													

[illegible]

Additoinal Comments:

Additional Comments:					
Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
<i>[Signature]</i>	<i>[Signature]</i>	12-16-21 1220			

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 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