



November 8, 2023

New Mexico Oil Conservation Division

New Mexico Energy, Minerals, and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**Re: Closure Request
Harroun East Tank Battery – HR5 Kimray
Incident Number nAPP2235779084
Eddy County, New Mexico**

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of BTA Oil Producers, LLC (BTA), has prepared this *Closure Request* to document assessment and soil sampling activities performed at the Harroun East Tank Battery – HR5 Kimray (Site). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil following a release of produced water within a lined containment at the Site. Based on field observations, field screening activities, and soil sample laboratory analytical results, BTA is submitting this *Closure Request*, describing Site assessment activities that have occurred and requesting no further action and closure for Incident Number nAPP2235779084.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit O, Section 20, Township 23 South, Range 29 East, in Eddy County, New Mexico (32.28361°, -104.00293°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On December 22, 2022, internal corrosion on a dump valve on the separator resulted in the release of approximately 75 barrels (bbls) of produced water into the lined containment. A vacuum truck was dispatched to the Site to recover free-standing fluids. Fluid recovery was limited by freezing temperatures; however, approximately 65 bbls of produced water were recovered. BTA reported the release to the New Mexico Oil Conservation Division (NMOCD) immediately, and submitted a *Release Notification Form C-141* (Form C-141) on January 4, 2023. The release was assigned Incident Number nAPP2235779084.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized for applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented on page 3 of the Form C-141, Site Assessment/Characterization. Potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is estimated to be less than 50 feet below ground surface (bgs) based on the nearest groundwater well data. The closest permitted groundwater well with depth to groundwater data is New Mexico Office of the State Engineer (NMOSE) well C-02707, located approximately

BTA Oil Producers, LLC
Closure Request
Harroun East Tank Battery – HR5 Kimray

1.06 miles southeast of the Site. The groundwater well has a reported depth to groundwater of 18 feet bgs and a total depth of 40 feet bgs. Ground surface elevation at the groundwater well location is 2,993 feet above mean sea level (amsl), which is approximately 22 feet lower in elevation than the Site. All wells used for depth to groundwater determination are depicted on Figure 1 and the associated well records are included in Appendix A.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 804 feet south of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area). Site receptors are identified on Figure 1.

Based on the results of the Site Characterization, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH): 100 mg/kg
- Chloride: 600 mg/kg

SITE ASSESSMENT ACTIVITIES

A 48-hour advance notice of the liner inspection was provided via email on May 9, 2023, to the NMOCD. A liner integrity inspection was conducted by Ensolum personnel on May 11, 2023. Upon inspection, no rips, tears, holes, or damage to the liner was observed. The liner was determined to be sufficient and all released fluids have been removed. Delineation soil samples SS01 through SS04 were collected around the containment at a depth of 0.5 feet bgs, to confirm the release did not extend outside the containment.

The delineation soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. The delineation soil sample locations are depicted on Figure 2. Photographic documentation was conducted at the Site. A photographic log is included in Appendix B.

The soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analyses of the following constituents of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standard Method SM4500.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for delineation soil samples SS01 through SS04 indicated all COC concentrations were compliant with most stringent Table I Closure Criteria, and successfully defined the lateral extent of the release. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included as Appendix C.

BTA Oil Producers, LLC
Closure Request
Harroun East Tank Battery – HR5 Kimray

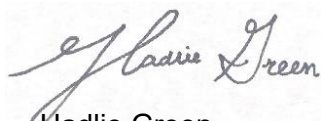
CLOSURE REQUEST

Site assessment and delineation activities were conducted at the Site to assess for the presence or absence of impacted soil resulting from the December 22, 2022, produced water release within the lined containment. A liner integrity inspection was conducted by Ensolum personnel on May 11, 2023. Upon inspection, no rips, tears, holes, or damage was observed, and the liner was determined to be sufficient. Laboratory analytical results for the delineation soil samples, collected around the lined containment, indicated all COC concentrations were compliant with the most stringent Table I Closure Criteria. The release was contained laterally by the lined containment and the liner was performing as designed.

Based on initial response efforts, the liner operating as designed, and soil sample laboratory analytical results confirming the absence of impacted soil outside containment, BTA respectfully requests closure for Incident Number nAPP2235779084. Notifications submitted to the NMOCD are included in Appendix D and the final Form C-141 is included in Appendix E.

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely,
Ensolum, LLC



Hadlie Green
Project Geologist



Aimee Cole
Senior Managing Scientist

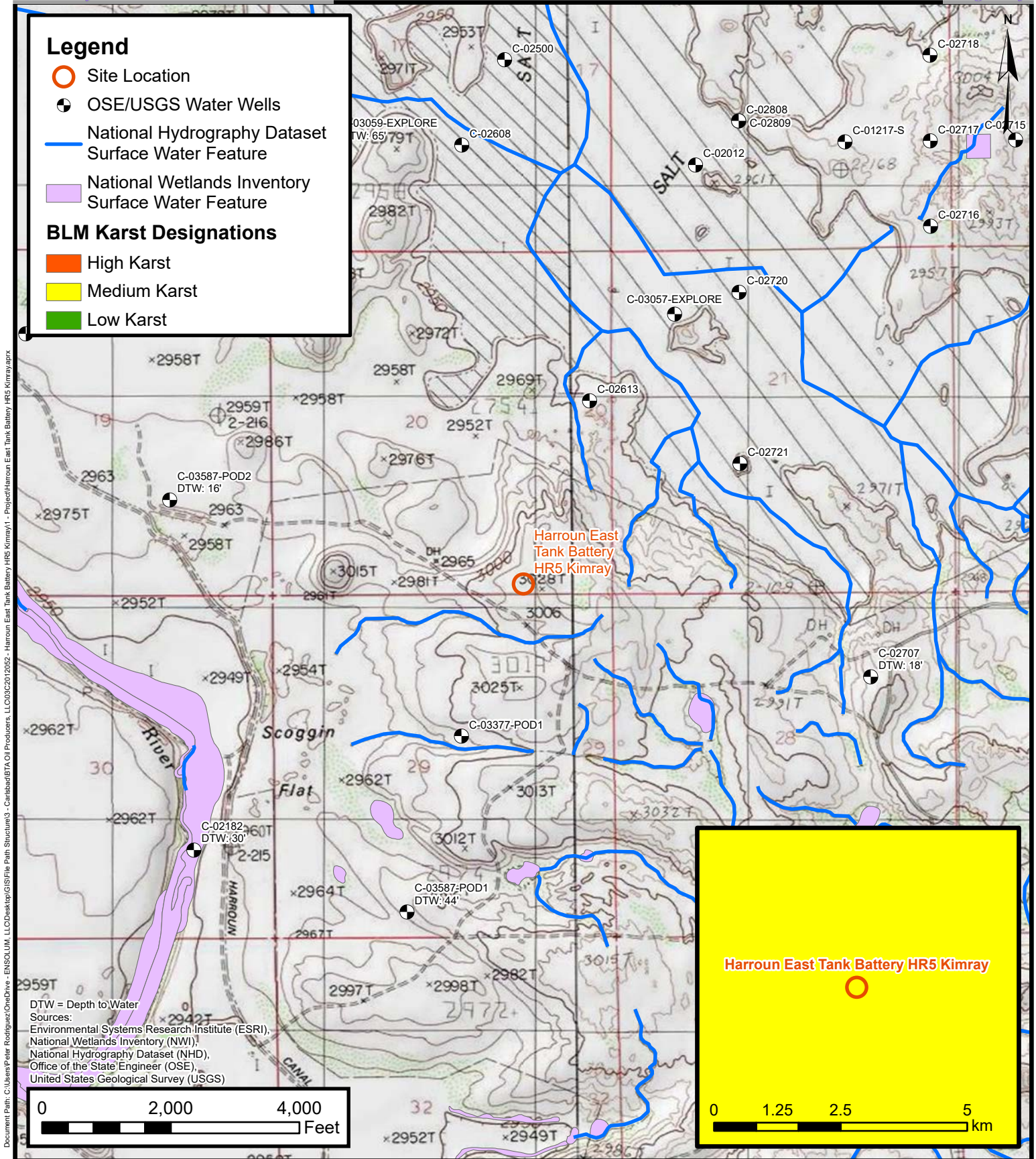
cc: Kelton Beaird, BTA
Bureau of Land Management

Appendices:

Figure 1	Site Receptor Map
Figure 2	Delineation Soil Sample Locations
Table 1	Soil Sample Analytical Results
Appendix A	Referenced Well Records
Appendix B	Photographic Log
Appendix C	Laboratory Analytical Reports & Chain-of-Custody Documentation
Appendix D	NMOCD Notifications
Appendix E	Final C-141



FIGURES



Site Receptor Map

BTA Oil Producers, LLC
 Harroun East Tank Battery HR5 Kimray
 Incident Number: NAPP2235779084
 Unit O, Sec 20, T23S R29E
 Eddy County, New Mexico

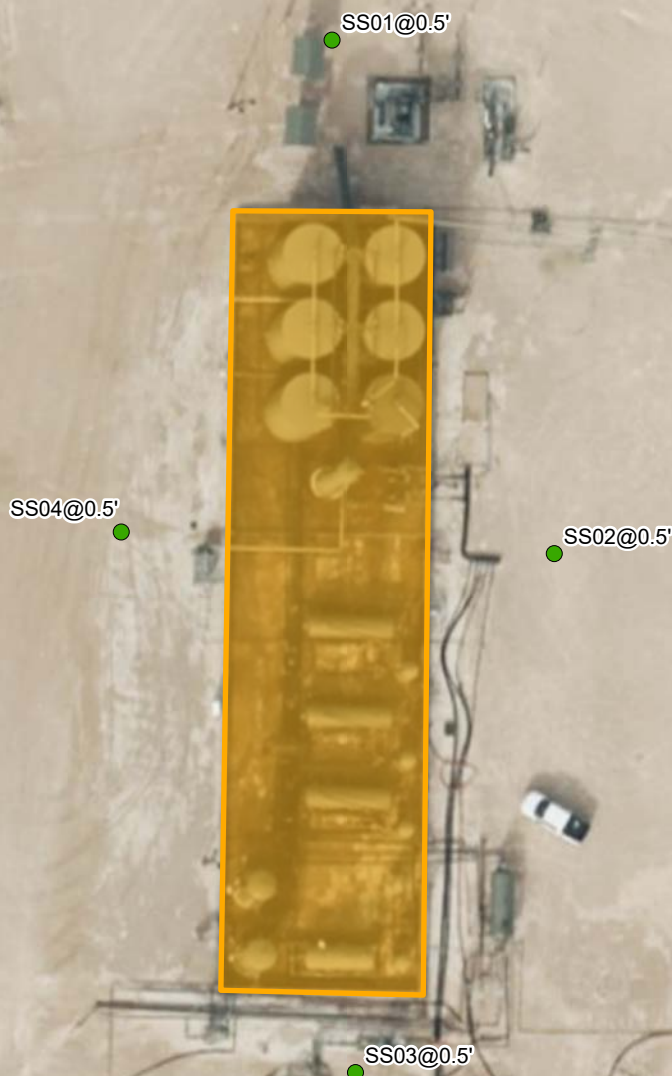
FIGURE
 1



Document Path: C:\Users\Peter.Rodriguez\OneDrive - ENSOLUM, LLC\Desktop\GIS\File Path Structure\3 - Carlsbad\BTA Oil Producers, LLC\2023\2012052 - Harroun East Tank Battery HR5 Kimray\1 - Project\Harroun East Tank Battery HR5 Kimray.aprx

Legend

- Delineation Soil Sample in Compliance with Closure Criteria
- Containment Liner



Note:
Sample ID @ Depth Below Ground Surface

0 50 100
Feet

Source:
Bing Maps



Environmental, Engineering and
Hydrogeologic Consultants

Delineation Soil Sample Locations

BTA Oil Producers, LLC
Harroun East Tank Battery HR5 Kimray
Incident Number: NAPP2235779084
Unit O, Sec 20, T23S R29E
Eddy County, New Mexico

FIGURE

2



TABLES

TABLE 1
SOIL SAMPLE ANALYTICAL RESULTS
Harroun East Tank Battery - HR5 Kimray
BTA Oil Producers, LLC
Eddy County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I Closure Criteria (NMAC 19.15.29)			10	50	NE	NE	NE	NE	100	600
Delineation Soil Samples										
SS01	10/26/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	48.0
SS02	10/26/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS03	10/26/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0
SS04	10/26/2023	0.5	<0.050	<0.300	<10.0	<10.0	<10.0	<10.0	<10.0	96.0

Notes:

bgs: below ground surface
mg/kg: milligrams per kilogram
NMOCD: New Mexico Oil Conservation Division
NE: Not Established
BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes
Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation standard where applicable.

GRO: Gasoline Range Organics
DRO: Diesel Range Organics
ORO: Oil Range Organics
TPH: Total Petroleum Hydrocarbon



APPENDIX A

Referenced Well Records

STATE ENGINEER OFFICE
WELL RECORD

Section 1. GENERAL INFORMATION

(A) Owner of well IMC Kalium Owner's Well No. _____
Street or Post Office Address Box 71
City and State Carlsbad, NM 88220

Well was drilled under Permit No. C-2707 and is located in the:
a. NE ¼ _____ ¼ _____ ¼ _____ ¼ of Section 28 Township 23S Range 29E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Taylor Water Well Service License No. WD-1348
Address 7317 Etcheverry Rd., Carlsbad, NM 88220
Drilling Began 6/9/00 Completed 6/9/00 Type tools Rotary Size of hole 6 in.
Elevation of land surface or _____ at well is 11K ft. Total depth of well 40 ft.
Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well 18 ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
36	40	4	Limestone:brn,vfn xln,dolo	700

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To
2 3/8	Sch 40	Flush	+2	40	42	Cap	35	40

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received 08-28-2000 Quad _____ FWL _____ FSL _____
File No. C-2707 Use Monitor Location No. 23S.29E.28.2

Section 7. REMARKS AND ADDITIONAL INFORMATION

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed.

Section 1. GENERAL INFORMATION

(A) Owner of well IMC Kalium Owner's Well No. _____
Street or Post Office Address Box 71
City and State Carlsbad, NM 88220

Well was drilled under Permit No. C-2707 and is located in the:
a. NE ¼ _____ ¼ _____ ¼ _____ ¼ of Section 28 Township 23S Range 29E N.M.P.M.
b. Tract No. _____ of Map No. _____ of the _____
c. Lot No. _____ of Block No. _____ of the _____
Subdivision, recorded in _____ County.
d. X= _____ feet, Y= _____ feet, N.M. Coordinate System _____ Zone in
the _____ Grant.

(B) Drilling Contractor Taylor Water Well Service License No. WD-1348
Address 7317 Etcheverry Rd., Carlsbad, NM 88220
Drilling Began 5/27/00 Completed 6/2/00 Type tools Rotary Size of hole 6 in.
Elevation of land surface or _____ at well is UK ft. Total depth of well _____ ft.
Completed well is ☒ shallow ☐ artesian. Depth to water upon completion of well _____ ft.

Section 2. PRINCIPAL WATER-BEARING STRATA

Depth in Feet		Thickness in Feet	Description of Water-Bearing Formation	Estimated Yield (gallons per minute)
From	To			
36	78	42	Limestone:brn,off wht,pnk,mic xln,fractured	700

Section 3. RECORD OF CASING

Diameter (inches)	Pounds per foot	Threads per in.	Depth in Feet		Length (feet)	Type of Shoe	Perforations	
			Top	Bottom			From	To

Section 4. RECORD OF MUDDING AND CEMENTING

Depth in Feet		Hole Diameter	Sacks of Mud	Cubic Feet of Cement	Method of Placement
From	To				

Section 5. PLUGGING RECORD

Plugging Contractor _____
Address _____
Plugging Method _____
Date Well Plugged _____
Plugging approved by: _____
State Engineer Representative

No.	Depth in Feet		Cubic Feet of Cement
	Top	Bottom	
1			
2			
3			
4			

FOR USE OF STATE ENGINEER ONLY

Date Received 08-28-2000 Quad _____ FWL _____ FSL _____
File No. C-2707 Use Monitor Location No. 23S.29E.28.2

Section 6. LOG OF HOLE

[illegible]

Section 7. REMARKS AND ADDITIONAL INFORMATION

Drilled with mud to 213.5'. Packer tested. Plugged well back with cement grout. Brought grout up too far and plugged water zone. Drilled new hole with air 10' from this hole.

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Driller/

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except Section 5, shall be answered as completely and accurately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 4(a) and Section 5 need be completed.



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 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 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 =

- 321652104021902

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

USGS 321652104021902 23S.28E.25.213131A

Eddy County, New Mexico
Latitude 32°16'52", Longitude 104°02'19" NAD27
Land-surface elevation 2,982 feet above NAVD88
The depth of the well is 80 feet below land surface.
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

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 of measur
1955-01-18			D62610		2940.58	NGVD29	1		Z	
1955-01-18			D62611		2942.13	NAVD88	1		Z	
1955-01-18			D72019	39.87			1		Z	
1956-01-11			D62610		2945.55	NGVD29	1		Z	
1956-01-11			D62611		2947.10	NAVD88	1		Z	
1956-01-11			D72019	34.90			1		Z	
1957-01-09			D62610		2945.74	NGVD29	1		Z	
1957-01-09			D62611		2947.29	NAVD88	1		Z	
1957-01-09			D72019	34.71			1		Z	
1958-01-15			D62610		2943.59	NGVD29	1		Z	
1958-01-15			D62611		2945.14	NAVD88	1		Z	
1958-01-15			D72019	36.86			1		Z	
1959-01-08			D62610		2946.82	NGVD29	1		Z	
1959-01-08			D62611		2948.37	NAVD88	1		Z	

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 (if measured)
1959-01-08			D	72019	33.63			1	Z	
1960-01-14			D	62610	2946.32	NGVD29	1		Z	
1960-01-14			D	62611	2947.87	NAVD88	1		Z	
1960-01-14			D	72019	34.13		1		Z	
1961-01-12			D	62610	2948.27	NGVD29	1		Z	
1961-01-12			D	62611	2949.82	NAVD88	1		Z	
1961-01-12			D	72019	32.18		1		Z	
1962-01-16			D	62610	2946.32	NGVD29	1		Z	
1962-01-16			D	62611	2947.87	NAVD88	1		Z	
1962-01-16			D	72019	34.13		1		Z	
1963-01-17			D	62610	2945.71	NGVD29	1		Z	
1963-01-17			D	62611	2947.26	NAVD88	1		Z	
1963-01-17			D	72019	34.74		1		Z	
1964-01-20			D	62610	2944.51	NGVD29	1		Z	
1964-01-20			D	62611	2946.06	NAVD88	1		Z	
1964-01-20			D	72019	35.94		1		Z	
1965-01-14			D	62610	2938.25	NGVD29	1		Z	
1965-01-14			D	62611	2939.80	NAVD88	1		Z	
1965-01-14			D	72019	42.20		1		Z	
1966-01-12			D	62610	2938.98	NGVD29	1		Z	
1966-01-12			D	62611	2940.53	NAVD88	1		Z	
1966-01-12			D	72019	41.47		1		Z	
1967-01-26			D	62610	2941.30	NGVD29	1		Z	
1967-01-26			D	62611	2942.85	NAVD88	1		Z	
1967-01-26			D	72019	39.15		1		Z	
1968-01-26			D	62610	2942.03	NGVD29	1		Z	
1968-01-26			D	62611	2943.58	NAVD88	1		Z	
1968-01-26			D	72019	38.42		1		Z	
1970-01-22			D	62610	2942.90	NGVD29	1		Z	
1970-01-22			D	62611	2944.45	NAVD88	1		Z	
1970-01-22			D	72019	37.55		1		Z	
1971-01-13			D	62610	2944.09	NGVD29	1		Z	
1971-01-13			D	62611	2945.64	NAVD88	1		Z	
1971-01-13			D	72019	36.36		1		Z	
1972-01-12			D	62610	2941.23	NGVD29	1		Z	
1972-01-12			D	62611	2942.78	NAVD88	1		Z	
1972-01-12			D	72019	39.22		1		Z	
1973-01-12			D	62610	2942.03	NGVD29	1		Z	
1973-01-12			D	62611	2943.58	NAVD88	1		Z	
1973-01-12			D	72019	38.42		1		Z	
1974-01-18			D	62610	2944.25	NGVD29	1		Z	
1974-01-18			D	62611	2945.80	NAVD88	1		Z	
1974-01-18			D	72019	36.20		1		Z	
1975-01-10			D	62610	2942.35	NGVD29	1		Z	
1975-01-10			D	62611	2943.90	NAVD88	1		Z	
1975-01-10			D	72019	38.10		1		Z	
1983-02-16			D	62610	2944.06	NGVD29	1		Z	
1983-02-16			D	62611	2945.61	NAVD88	1		Z	
1983-02-16			D	72019	36.39		1		Z	
1988-02-12			D	62610	2946.78	NGVD29	1		Z	

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 of measurement
1988-02-12			D	62611	2948.33	NAVD88	1		Z	
1988-02-12			D	72019	33.67		1		Z	
1993-02-02			D	62610	2946.61	NGVD29	1		S	
1993-02-02			D	62611	2948.16	NAVD88	1		S	
1993-02-02			D	72019	33.84		1		S	
1995-07-18			D	62610	2945.50	NGVD29	1		S	
1995-07-18			D	62611	2947.05	NAVD88	1		S	
1995-07-18			D	72019	34.95		1		S	
1996-01-24			D	62610	2946.60	NGVD29	1		S	
1996-01-24			D	62611	2948.15	NAVD88	1		S	
1996-01-24			D	72019	33.85		1		S	

Explanation		
Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
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
Source of measurement		Not determined
Water-level approval status	A	Approved for publication -- Processing and review completed.

[Questions or Comments](#)
[Automated retrievals](#)
[Help](#)
[Data Tips](#)
[Explanation of terms](#)
[Subscribe for system changes](#)
[News](#)

[Accessibility](#) [FOIA](#) [Privacy](#) [Policies and Notices](#)
[U.S. Department of the Interior](#) | [U.S. Geological Survey](#)
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: 2023-11-03 12:01:02 EDT
0.44 0.33 nadww02



APPENDIX B

Photographic Log



Photographic Log

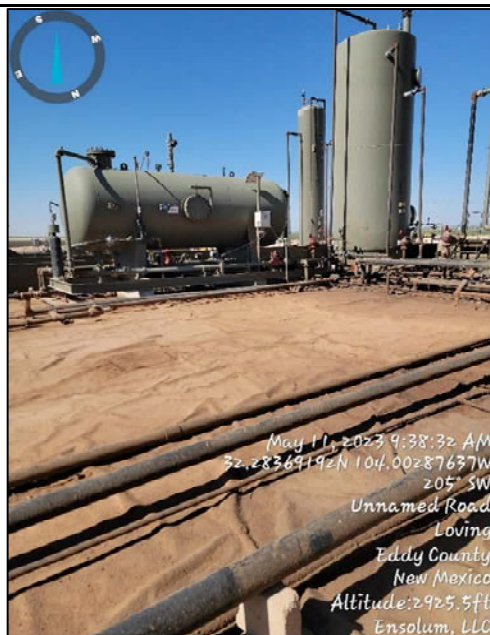
BTA Oil Producers, LLC

Harroun East Tank Battery - HR5 Kimray

Incident Number nAPP2235779084



Photograph: 1 Date: 5/11/2023
Description: View of lined containment deemed to be in good condition, facing southwest.



Photograph: 2 Date: 5/11/2023
Description: View of lined containment deemed to be in good condition, facing southwest.



Photograph: 3 Date: 5/11/2023
Description: View of lined containment deemed to be in good condition, facing north.



Photograph: 4 Date: 5/11/2023
Description: View of lined containment deemed to be in good condition, facing north.



APPENDIX C

Laboratory Analytical Reports & Chain of Custody Documentation



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

November 06, 2023

HADLIE GREEN

ENSOLUM, LLC

705 W WADLEY AVE.

MIDLAND, TX 79705

RE: HARROUN EAST TANK BATTERY - HR5 KIMRAY

Enclosed are the results of analyses for samples received by the laboratory on 10/31/23 13:15.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-22-15. 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 style with a large, stylized 'C' and 'K'.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/31/2023	Sampling Date:	10/26/2023
Reported:	11/06/2023	Sampling Type:	Soil
Project Name:	HARROUN EAST TANK BATTERY - HR5 K	Sampling Condition:	Cool & Intact
Project Number:	03C2012052	Sample Received By:	Tamara Oldaker
Project Location:	BTA (32.28361-104.00293)		

Sample ID: SS 01 @ 0.5' (H235955-01)

BTX 8021B		mg/kg		Analyzed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	11/03/2023	ND	2.11	105	2.00	1.45	
Toluene*	<0.050	0.050	11/03/2023	ND	1.91	95.3	2.00	2.87	
Ethylbenzene*	<0.050	0.050	11/03/2023	ND	1.94	97.0	2.00	4.22	
Total Xylenes*	<0.150	0.150	11/03/2023	ND	5.76	95.9	6.00	3.78	
Total BTX	<0.300	0.300	11/03/2023	ND					

Surrogate: 4-Bromofluorobenzene (PID) 96.7 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	48.0	16.0	11/06/2023	ND	432	108	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	11/02/2023	ND	192	96.2	200	5.85	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	199	99.3	200	16.9	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 88.9 % 48.2-134

Surrogate: 1-Chlorooctadecane 94.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/31/2023	Sampling Date:	10/26/2023
Reported:	11/06/2023	Sampling Type:	Soil
Project Name:	HARROUN EAST TANK BATTERY - HR5 K	Sampling Condition:	Cool & Intact
Project Number:	03C2012052	Sample Received By:	Tamara Oldaker
Project Location:	BTA (32.28361-104.00293)		

Sample ID: SS 02 @ 0.5' (H235955-02)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/03/2023	ND	2.11	105	2.00	1.45		
Toluene*	<0.050	0.050	11/03/2023	ND	1.91	95.3	2.00	2.87		
Ethylbenzene*	<0.050	0.050	11/03/2023	ND	1.94	97.0	2.00	4.22		
Total Xylenes*	<0.150	0.150	11/03/2023	ND	5.76	95.9	6.00	3.78		
Total BTEX	<0.300	0.300	11/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/06/2023	ND	432	108	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	11/02/2023	ND	192	96.2	200	5.85	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	199	99.3	200	16.9	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 91.2 % 48.2-134

Surrogate: 1-Chlorooctadecane 96.2 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/31/2023	Sampling Date:	10/26/2023
Reported:	11/06/2023	Sampling Type:	Soil
Project Name:	HARROUN EAST TANK BATTERY - HR5 K	Sampling Condition:	Cool & Intact
Project Number:	03C2012052	Sample Received By:	Tamara Oldaker
Project Location:	BTA (32.28361-104.00293)		

Sample ID: SS 03 @ 0.5' (H235955-03)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/03/2023	ND	2.11	105	2.00	1.45		
Toluene*	<0.050	0.050	11/03/2023	ND	1.91	95.3	2.00	2.87		
Ethylbenzene*	<0.050	0.050	11/03/2023	ND	1.94	97.0	2.00	4.22		
Total Xylenes*	<0.150	0.150	11/03/2023	ND	5.76	95.9	6.00	3.78		
Total BTEX	<0.300	0.300	11/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 101 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/06/2023	ND	432	108	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	11/02/2023	ND	192	96.2	200	5.85	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	199	99.3	200	16.9	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 88.1 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.0 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

ENSOLUM, LLC
 HADLIE GREEN
 705 W WADLEY AVE.
 MIDLAND TX, 79705
 Fax To:

Received:	10/31/2023	Sampling Date:	10/26/2023
Reported:	11/06/2023	Sampling Type:	Soil
Project Name:	HARROUN EAST TANK BATTERY - HR5 K	Sampling Condition:	Cool & Intact
Project Number:	03C2012052	Sample Received By:	Tamara Oldaker
Project Location:	BTA (32.28361-104.00293)		

Sample ID: SS 04 @ 0.5' (H235955-04)

BTEx 8021B		mg/kg		Analyzed By: JH/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	11/03/2023	ND	2.11	105	2.00	1.45		
Toluene*	<0.050	0.050	11/03/2023	ND	1.91	95.3	2.00	2.87		
Ethylbenzene*	<0.050	0.050	11/03/2023	ND	1.94	97.0	2.00	4.22		
Total Xylenes*	<0.150	0.150	11/03/2023	ND	5.76	95.9	6.00	3.78		
Total BTEX	<0.300	0.300	11/03/2023	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 71.5-134

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	11/06/2023	ND	416	104	400	3.77		

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	11/02/2023	ND	192	96.2	200	5.85	
DRO >C10-C28*	<10.0	10.0	11/02/2023	ND	199	99.3	200	16.9	
EXT DRO >C28-C36	<10.0	10.0	11/02/2023	ND					

Surrogate: 1-Chlorooctane 87.5 % 48.2-134

Surrogate: 1-Chlorooctadecane 93.4 % 49.1-148

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager

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

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

Cardinal Laboratories

*=Accredited Analyte

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 client for 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 thirty (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 the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

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

Celey D. Keene, Lab Director/Quality Manager



APPENDIX D

NMOCD Notifications

From: [Enviro, OCD, EMNRD](#)
To: [Hadlie Green](#)
Subject: RE: [EXTERNAL] BTA - Containment Inspection - Harroun East Tank Battery - HR5 Kimray (Incident Number nAPP2235779084)
Date: Wednesday, May 10, 2023 9:33:20 AM
Attachments: [image006.png](#)
[image007.png](#)
[image008.png](#)
[image009.png](#)

[**EXTERNAL EMAIL**]

Hadlie,

Please be aware that notification requirements are **two business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to insure inclusion in the project file.

JH

Jocelyn Harimon • Environmental Specialist
Environmental Bureau
EMNRD - Oil Conservation Division
1220 South St. Francis Drive | Santa Fe, NM 87505
(505)469-2821 | Jocelyn.Harimon@emnrd.nm.gov
[http:// www.emnrd.nm.gov](http://www.emnrd.nm.gov)



From: Hadlie Green <hgreen@ensolum.com>
Sent: Tuesday, May 9, 2023 9:58 AM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Tacoma Morrissey <tmorrissey@ensolum.com>; Nathan Sirgo <nsirgo@btaoil.com>; Kevin Jones <kjones@btaoil.com>
Subject: [EXTERNAL] BTA - Containment Inspection - Harroun East Tank Battery - HR5 Kimray (Incident Number nAPP2235779084)

CAUTION: This email originated outside of our organization. Exercise caution prior to clicking on links or opening attachments.

To Whom It May Concern,

Below is an email notification for liner inspection at BTA Oil Producers, LLC (BTA) Harroun East Tank Battery-HR5 Kimray (Incident Number nAPP2235779084) / Spill Date 12-22-2022. This is a notification that Ensolum is scheduled to inspect this lined containment on behalf of BTA on

Thursday, May 11, 2023. Please call with any questions or concerns.

GPS: 32.28361, -104.00293

Thank you,



Hadlie Green

Project Geologist

432-557-8895

hgreen@ensolum.com

Ensolum, LLC

in f 



APPENDIX E

Final C-141

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	nAPP2235779084
District RP	
Facility ID	fAPP2129830694
Application ID	

Release Notification

Responsible Party

Responsible Party: BTA Oil Producers, LLC	OGRID: 260297
Contact Name: Bob Hall	Contact Telephone: 432-682-3753
Contact email: bhall@btaoil.com	Incident # (assigned by OCD) nAPP2235779084
Contact mailing address: 104 S. Pecos St., Midland, TX 79701	

Location of Release Source

Latitude: 32.28361 Longitude: -104.00293

(NAD 83 in decimal degrees to 5 decimal places)

Site Name: Harroun East Tank Battery – HR5 Kimray	Site Type: Tank Battery
Date Release Discovered: 12/22/2022	API# (if applicable) Nearest well:

Unit Letter	Section	Township	Range	County
O	20	23S	29E	Eddy

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) 75 BBL	Volume Recovered (bbls) 65 BBL
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	<input checked="" 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

Corrosion - Dump Valve Failure.

Body washed out due to corrosion on a Kimray Dump Valve on the water dump outlet of the separator. Initial fluid recovery from secondary containment was low due to sub-freezing temperatures on 12/22 & 12/23/2022.

(Spill calculation spreadsheet attached.)


State of New Mexico
Oil Conservation Division

Incident ID	nAPP2235779084
District RP	
Facility ID	fAPP2129830694
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	If YES, for what reason(s) does the responsible party consider this a major release? The release was greater than 25 BBL of fluid.
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? Via filing NOR document on NMOCD Permitting Portal that was assigned Incident ID # nAPP2235779084 on 12/22/2022.	

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: Bob Hall Title: Environmental Manager	
Signature: 	Date: 1/4/2023
email: bhall@btaoil.com	Telephone: 432-682-3753
<u>OCD Only</u>	
Received by: <u>Jocelyn Harimon</u>	Date: <u>01/04/2022</u>

Location Harroun Ranch East HR5 Kimray - Dump Valve Washout

API #

Spill Date 12/22/2022

Spill Dimensions

ENTER - Length of Spill

85 feet

ENTER - Width of Spill

85 feet

ENTER - Saturation Depth of Spill

3 inches

ENTER - Porosity Factor

0.03 decimal

Oil Cut - Well Test / Vessel Throughput or Contents

Oil

0.01

Water

99.99

Calculated Oil Cut

0.0001

Volume Recovered in Truck / Containment

ENTER - Recovered Oil

0 BBL

ENTER - Recovered Water

65 BBL

Calculated Values

Release of Oil in Soil - Unrecovered

calculated
0 BBL

Release of Water in Soil - Unrecovered

10 BBL

Unrecovered Total Release

10 BBL

Calculated Values

Total Release of Oil

calculated
0 BBL

Total Release of Water

75 BBL

Total Release

75 BBL

Types of Soil	Porosity Factor
Gravel	0.25
Sand	0.20
Clay/silt/sand Mix	0.15
Clay	0.05
Caliche	0.03
Unknown	0.25

(Length X Width X Depth X 1 ft/12 in) X Porosity

5.615 ft³ / BBL

X

Oil Cut
(or Water Cut)

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 172082

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 172082
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jharimon	None	1/4/2023

Incident ID	nAPP2235779084
District RP	
Facility ID	fAPP2129830694
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?	<u><50</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.

Oil Conservation Division

Incident ID	nAPP2235779084
District RP	
Facility ID	fAPP2129830694
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: Kelton BeairdTitle: Environmental ManagerSignature: Date: 11/08/2023email: KBeaird@btaoil.comTelephone: 432-312-2203**OCD Only**Received by: Shelly WellsDate: 11/13/2023

Incident ID	nAPP2235779084
District RP	
Facility ID	fAPP2129830694
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: Kelton Beaird Title: Environmental Manager

Signature:  Date: 11/08/2023

email: KBeaird@btaoil.com Telephone: 432-312-2203

OCD Only

Received by: Shelly Wells Date: 11/13/2023

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: Scott Rodgers Date: 02/06/2024

Printed Name: Scott Rodgers Title: Environmental Specialist Adv.

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 284781

CONDITIONS

Operator: BTA OIL PRODUCERS, LLC 104 S Pecos Midland, TX 79701	OGRID: 260297
	Action Number: 284781
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
scott.rodgers	None	2/6/2024