	Page 1 of 43
Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no taler than 50 days after the release discovery date.	
What is the shallowest depth to groundwater beneath the area affected by the release?	84(ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ⊠ 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)?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ⊠ 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?	☐ Yes ⊠ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ⊠ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ⊠ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ⊠ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ⊠ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	⊠ Yes □ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ⊠ No
Did the release impact areas not on an exploration, development, production, or storage site?	☐ Yes ⊠ No
Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil
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 wel Field data Data table of soil contaminant concentration data Depth to water determination 	ls.

aracterization 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.

Received by OCD: 2/1/2024 10:48:03 AM Form C-141 State of New Mexico Page 4 Oil Conservation Division

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Incident ID		
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I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.							
Printed Name:Connor Walker	Title: Sr. Engineer						
Signature:	Date: _12/21/2023						
email:cwalker@mewbourne.com	Telephone:806-202-5281						
OCD Only							
Received by:	Date:						

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Incident ID	
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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 ite	ems must be included in the closure report.						
A scaled site and sampling diagram as described in 19.15.29.11	NMAC						
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							
and regulations all operators are required to report and/or file certain may endanger public health or the environment. The acceptance of a	rediate contamination that pose a threat to groundwater, surface water, C-141 report does not relieve the operator of responsibility for ions. The responsible party acknowledges they must substantially ditions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete. Title: Sr. Engineer						
OCD Only							
Received by:	Date:						
	of liability should their operations have failed to adequately investigate and vater, human health, or the environment nor does not relieve the responsible r regulations.						
Closure Approved by:	Date:						
Printed Name:	Title:						



Annabelle 18/13 W2PO Fed Com #1H Battery

nAPP2333028833

Final Remediation Report



2525 NW County Rd

Hobbs, NM 88240 (575) 392-9996

Introduction

This report represents the results of remediation activities at the Annabelle 18/13 W2PO Fed Com #1H Battery. On behalf of Mewbourne Oil Company (Mewbourne), Diamondback Disposal Services, Inc. (Diamondback) was tasked with the cleanup and remediation of release nAPP2333028833. The release occurred in Unit Letter P, Section 18, Township 24S, Range 27E at coordinates 32.209880, -104.221992. The remediation was performed in general accordance with the New Mexico Oil Conservation Division (NMOCD) and 19.15.29 of the New Mexico Administrative Code (NMAC) effective date August 14, 2018.

Overview

The spill site was located on a well-site within federal land. This spill was almost entirely contained within the battery containment. A small amount of contaminated water leaked onto the battery pad. A small hole developed in a 4" poly line on the discharge side of the SWD's water transfer pump causing the adulterated fluid to leak. Approximately 22 barrels of produced water was lost with 5 barrels recovered. All figures were calculated based on normal flow rates.

Upon review of the site characteristics and a search of a groundwater database maintained by The New Mexico Office of the State Engineer (NMOSE) a survey was conducted to determine the average depth to groundwater within a one (1) mile radius of the release site and identify any registered water wells within a $\frac{1}{2}$ mile radius of the release site. Although Points of diversion were located the site is located in an area of High Karst potential therefore table 1 NMAC 19.15.29.12 closure criteria for groundwater less that 50ft (See Table Below) will be utilized.

Table 1 NMAC 19.15.29.12							
Closure Criteria for Soils Impacted by a Release							
<50 Feet	Chloride	600 mg/kg					
	TPH (GRO+DRO+MRO)	100 mg/kg					
	BTEX	50 mg/kg					
	Benzene	10 mg/kg					

Remediation Activities

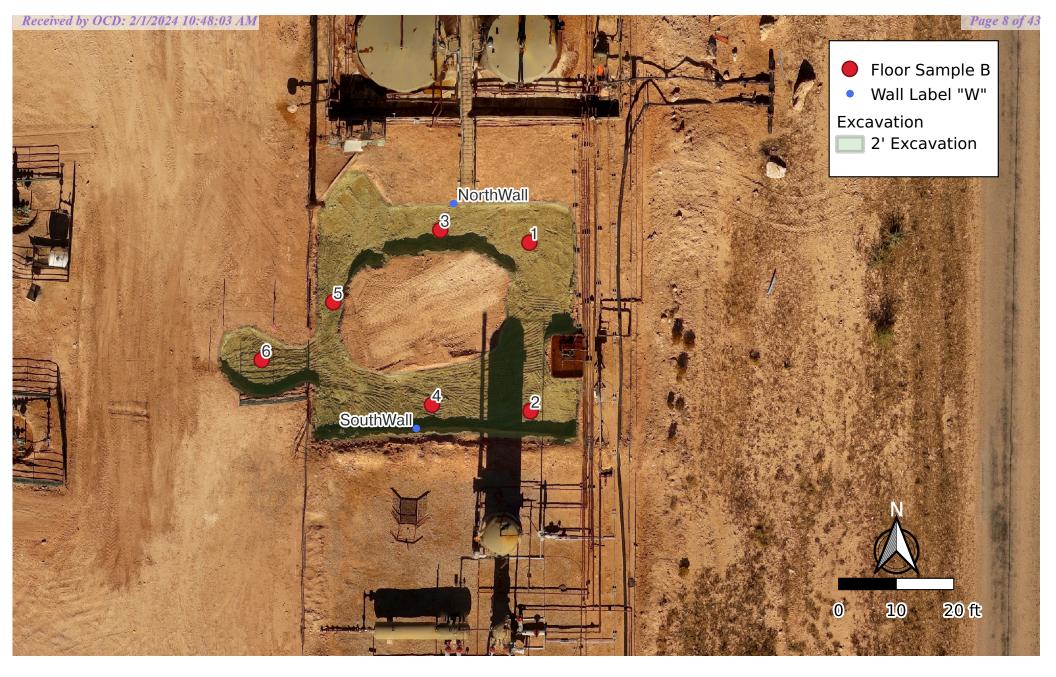
Between the dates of November 29th, 2023 and December 4th, 2023 Diamondback excavated approximately 122 cubic yards (cy) of impacted material, loaded and transported it to R-360 Halfway Facility for disposal. Depth of excavation was 2-feet BGS. During this time the site was sampled to determine the RRAL's had been met. Five-point composite samples were collected every 200 square feet of side wall and 200 square feet of floor area, packaged and delivered to a third-party lab with chain of custody for testing as per regulatory standards. (See attached analytical). Upon review of analytical data, all wall and floor samples proved to be below table 1 RRAL's for site closure. Being that Table 1 Closure Criteria for groundwater less than 50' BGS, all restoration and reclamation limits have been met.

On December 7th and 8th back-filling occurred. Approximately 105 cy of material was obtained from a local source. Backfill was placed in a manner that will promote compaction, prevent storm water run-off, erosion and restored the location back to full operational condition.

Conclusion

Upon review of all analytical data provided by the third-party independent lab, results indicated that all recommended remediation action levels and restoration/reclamation criteria were met for all excavated areas. On behalf of Mewbourne Oil Company, we respectfully request the BLM grant closure status for the Annabelle 18/13 W2PO Fed Com #1H Battery, nAPP2333028833.

	Annabelle 18/13 W2PO Fed Com #1H Battery Wall Sample Summary													
SAMPLE ID	LAB ID NUMBER	SAMPLE DEPTH	SAMPLE TYPE	SAMPLE DATE	BENZENE	TOLUENE (mg/kg)	ETHYL-BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	TOTAL BTEX (mg/kg)	GRO C6-C10 (mg/kg)	DRO C10-C28 (mg/kg)	EXT DRO C28-C36 (mg/kg)	TOTAL TPH C6-C36 (mg/kg)	CHLORIDE
NORTHWALL	H236501-07	0-2'	COMP	12/4/23	<0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	112
SOUTHWALL	H236501-08	0-2'	COMP	12/4/23	<0.050	< 0.050	<0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	112
SAMPLE ID	LAB ID	SAMPLE	SAMPLE	SAMPLE	BENZENE	TOLUENE	Floor Sample Summa ETHYL-BENZENE	TOTAL XYLENES	TOTAL BTEX	GRO	DRO	EXT DRO	TOTAL TPH	CHLORIDE
	NUMBER	DEPTH	TYPE	DATE		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	C6-C10 (mg/kg)	C10-C28 (mg/kg)		C6-C36 (mg/kg)	
B 1 FLOOR	H236501-01	2'	COMP	12/4/23	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0
B 2 FLOOR	H236501-02	2'	COMP	12/4/23	<0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	64.0
B 3 FLOOR	H236501-03	2'	COMP	12/4/23	< 0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	96.0
B 4 FLOOR	H236501-04	2'	COMP	12/4/23	<0.050	< 0.050	< 0.050	<0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	80.0
B 5 FLOOR	H236501-05	2'	COMP	12/4/23	<0.050	< 0.050	< 0.050	< 0.150	< 0.300	<10.0	<10.0	<10.0	<10.0	80.0
B 6 FLOOR	H236501-06	2'	COMP	12/4/23	< 0.050	< 0.050	< 0.050	< 0.150	<0.300	<10.0	<10.0	<10.0	<10.0	80.0



Mewbourne Oil Company Annabelle 18/13 W2PO Fed Com #1H Battery NAPP2333028833



Diamondback Disposal Services, Inc P.O. Box 2491 Hobbs, NM 88241 575-392-9996

Sample ID	Soil	<u>Water</u>	Ratio	AgNO3	Cl Result	MR3000	<u>Depth</u>		UL
DS1	11	30.3				0.07		*	<u>500</u>
DS1	11.2				836			*	300
DS1	11.3	30.2		0.31	479	0.03			
DS2	11.3			0.18	301	0.06	2'		
DS3	11.3	30.2			427		2'		
	11.3			0.16			1'	*	
DS4				0.23	616				
DS4	11.3	30.3	2.68	0.10	268		2'	*	
								*	
								•	
B1	11	30.2	2.75	0.11	302		2'		
B2	11.2				270		2'		
B3	11.3			0.11	293		2'		
B4	11	30		0.14	382		2'		
B5	11.2			0.08	215		2′		
В6	11.3			0.09	239		2′		
NorthWall	11.3	30.2		0.13	347		0-2'		
SouthWall	11	30.1	2.74	0.09	246		0-2'		
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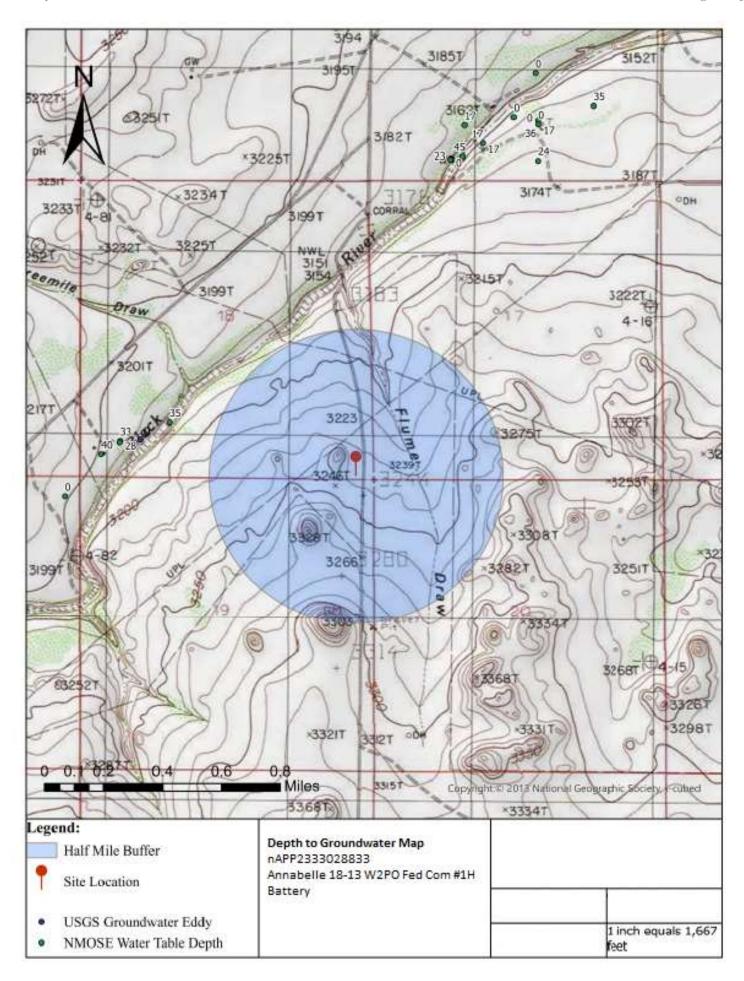
<u>Normality</u>	
10	0.282
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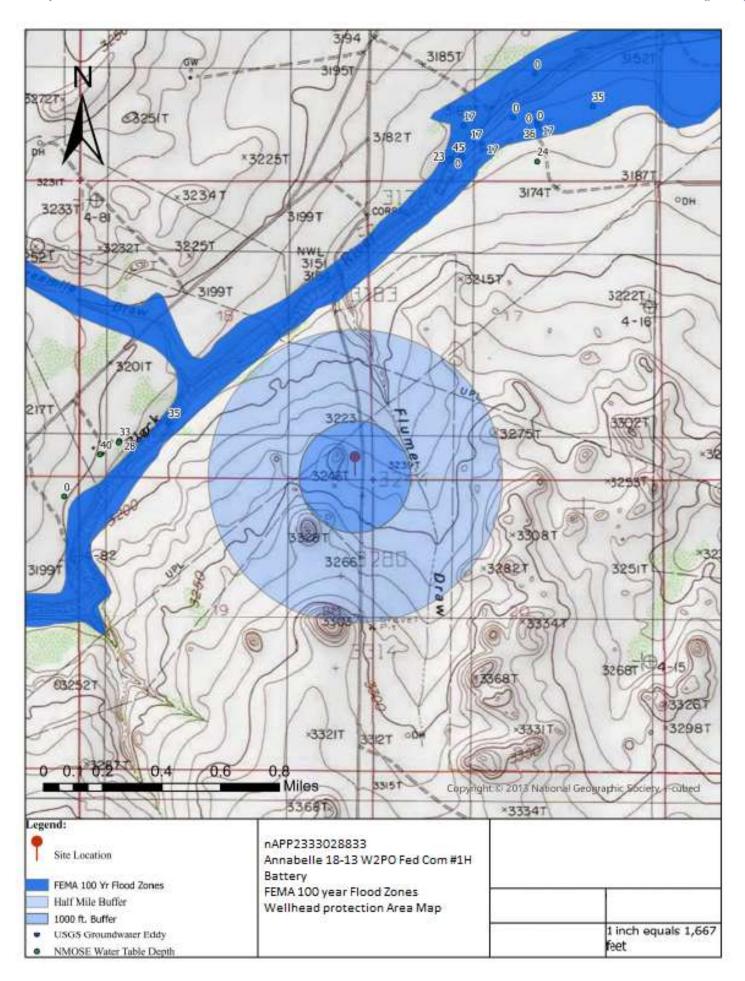
SPILL VOLUME CALCULATIONS

INPUT DATA:			(click "Reset Page	e" button	to return all values to zero)				
Total Area Calculations						Standing Liquid Calculations (leave blank if 100% of free liquid has been recovered)			
Total Surface Area			saturated soil depth	% oil	Total Surface Area				0/ - 11
			<u> </u>					depth	% oil
Known Area #1	0 acres or	1511 sq. ft.	7 in	0%	Known Area #1	0 acres or	0 sq. ft.	0 in	0%
Known Area #2	0 acres or	0 sq. ft.	0 in	0%	Known Area #2	0 acres or	0 sq. ft.	0 in	0%
Known Area #3	0 acres or	0 sq. ft.	0 in	0%	Known Area #3	0 acres or	0 sq. ft.	<mark>0</mark> in	0%
Known Area #4	<pre>0 acres or</pre>	0 sq. ft.	0 in	0%	Known Area #4	0 acres or	0 sq. ft.	0 in	0%
width length						width	length		
Rectangle Area #1	0 ft	0 ft	0 in	0%	Rectangle Area #1	0 ft	0 ft	0 in	0%
Rectangle Area #2	0 ft	0 ft	0 in	0%	Rectangle Area #2	0 ft	0 ft	<mark>0</mark> in	0%
Rectangle Area #3	0 ft	0 ft	0 in	0%	Rectangle Area #3	0 ft	0 ft	<mark>0</mark> in	0%
Rectangle Area #4	0 ft	0 ft	0 in	0%	Rectangle Area #4	0 ft	0 ft	<mark>0</mark> in	0%
			saturated					iiquia	
di	ameter		soil depth	% oil	di	iameter		depth	% oil
Circle Area #1	0 ft	_	0 in	0%	Circle Area #1	0 ft	_	0 in	0%
Circle Area #2	0 ft		0 in	0%	Circle Area #2	0 ft		<mark>0</mark> in	0%
Circle Area #3	0 ft		0 in	0%	Circle Area #3	0 ft		0 in	0%
Circle Area #4	0 ft		0 in	0%	Circle Area #4	0 ft		0 in	0%

Amount of Free Liquid Recovered:	0 bbl	Percentage of Oil in Free Liquid Recovered:	0%
Liquid Holding Factor*: (see below)	0.14 gal liquid/gal soil		
Use the following when the spill wets the grains of the soil.		Use the following when the liquid completely fills the pore space of the soil:	
* sand = .08 gallon liquid per gallon volume of soil.		Occurs when the spill soaked soil is contained by barriers, natural (or not).	
* gravelly (caliche) loam = .14 gallon liquid per gallon volume of	f soil.	* gravelly (caliche) loam = .25 gallon liquid per gallon volume of soil.	
* sandy clay loam soil = .14 gallon liquid per gallon volume of s	oil.	* sandy loam = .5 gallon liquid per gallon volume of soil.	
* clay loam = .16 gallon liquid per gallon volume of soil.			

OUTPUT DATA:						
Saturated Soil Volume Calculations			Free Liquid Vol	ume Calculations		
				<u>Water</u>	<u>Oil</u>	
Total Contaminated Volume:	881.4 cu. ft.	32.6 yds.	Total Free Liquid:	0.0 BBL	0.0 BBL	
Estimated Volumes Spilled			Estimated Su	ırface Damage		
	Water	<u>Oil</u>	Surface Area:	1,511.0 sq. ft.		
Liquid in Soil:	22.0 BBL	0.0 BBL	Surface Area:	0.0 acres		
Free Liquid:	0.0 BBL	0.0 BBL				
Free Liquid Recovered:	0.0 BBL	0.0 BBL	Recovere	d Volumes		
			Estimated oil recovered:	0.0 BBL		
Total Liquid Spilled:	22.0 BBL	0.0 BBL	Estimated water recovered:	0.0 BBL		
	923.0 gal	0.0 gal				

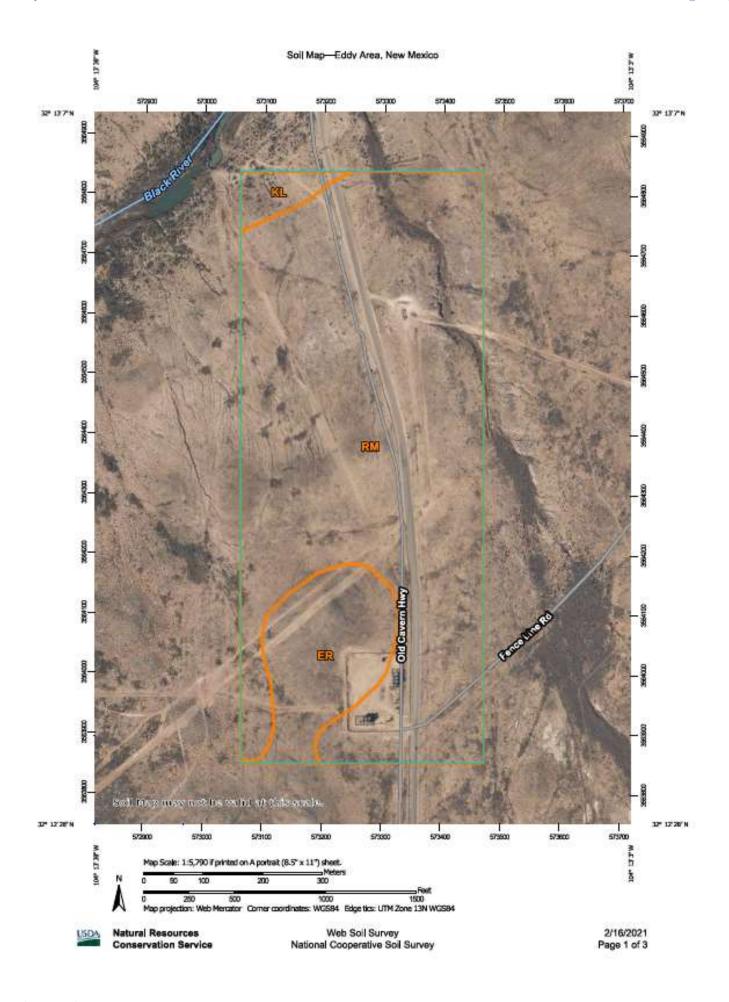




nAPP2333028833 - Annabelle 18-13 W2PO Fed Com #1H Battery



Printed from Public Web Map Unofficial Map from OSE POD Locations Web Application



Soil Map-Eddy Area, New Mexico

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
ER	Ector-Reagan association, 0 to 9 percent slopes	12.9	13.0%
KL	Karro loam, 0 to 3 percent slopes	2.4	2.4%
RM	Reeves-Reagan loams, 0 to 3 percent slopes	84.3	84.6%
Totals for Area of Interest		99.7	100.0%

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Annabelle 18-13 W2PO Fed Com #1H Batt



January 26, 2024

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Pond

Freshwater Forested/Shrub Wetland

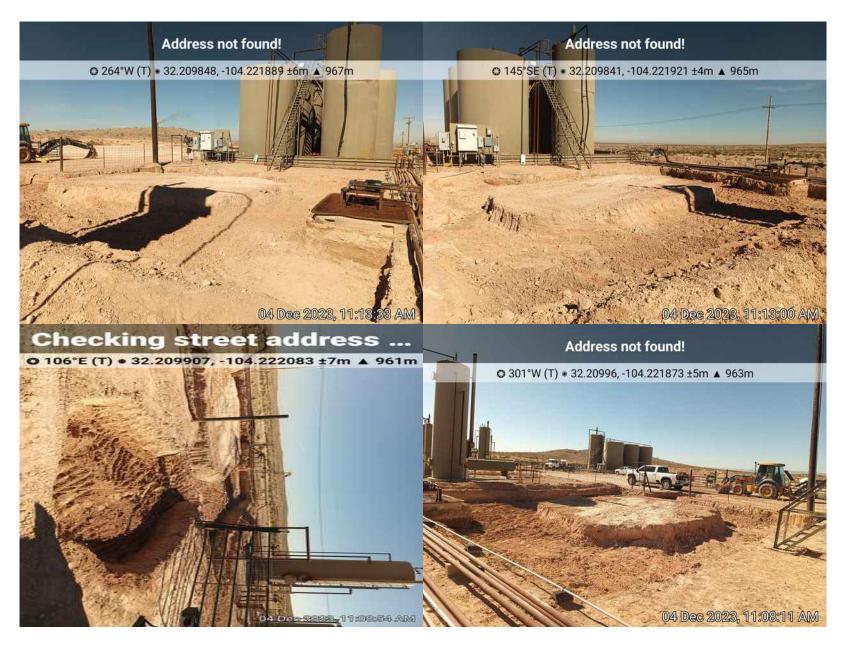
Lake

Other

Riverine

This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Annabelle 18/13 W2PO Fed Com #1H Battery Final Excavation Photos



Annabelle 18/13 W2PO Fed Com #1H Battery Final BackFill Photos



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	NAPP2333028833
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

D 111	D . M	1 07.0			OCDID	14744
Responsible		ewbourne Oil Con	npany			14744
Contact Nan	ne Conno	or Walker			Contact T	Telephone 806-202-5281
Contact ema	il cwalk	er@mewbourne.co	om		Incident #	# (assigned by OCD) nAPP2333028833
Contact mail	ling address	4801 Business I	Park Blvd, Hobbs	s, NM 88	240	
			Location	n of R	elease S	Source
Latitude 32.2	209880		(MAD 92 in 1		Longitude grees to 5 deci	e -104.221992
			(NAD 83 m a	іесітаі ае	grees to 5 aeci	nmai piaces)
Site Name A	nnabelle 18/	13 W2PO Fed Co	m #1H Battery		Site Type	e Battery
Date Release	Discovered	11/11/2023			API# (if ap	pplicable)
Unit Letter	Section	Township	Range		Cou	unty
P	18	24S	27E	Eddy	7	
Surface Owne		Federal T	Nature an	d Vol		
Crude Oi		Volume Release		en calculat	ions or specific	Volume Recovered (bbls)
Produced	Water	Volume Release	ed (bbls) 22			Volume Recovered (bbls) 5
		Is the concentra produced water	tion of dissolved >10,000 mg/l?	chloride	in the	⊠ Yes □ No
Condensa	ite	Volume Release				Volume Recovered (bbls)
Natural C	das	Volume Release	ed (Mcf)			Volume Recovered (Mcf)
Other (de	escribe)	Volume/Weight	Released (providence)	de units)		Volume/Weight Recovered (provide units)
Cause of Rel A 4" poly pi		scharge of the SW	D water transfer _I	pump de	veloped a h	hole.

Received by OCD: 2/1/2024/10/48:03/AMI State of New Mexico Page 2 Oil Conservation Division

\boldsymbol{P}	age	21	DЫ	43

Incident ID	NAPP2333028833
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC?	If YES, for what reason(s) does the respo	nsible party consider this a major release?
☐ Yes ⊠ No		
If YES, was immediate no	otice given to the OCD? By whom? To when	nom? When and by what means (phone, email, etc)?
	Initial R	esponse
The responsible	party must undertake the following actions immediate	ly unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
The impacted area ha	s been secured to protect human health and	the environment.
Released materials ha	ave been contained via the use of berms or o	likes, absorbent pads, or other containment devices.
All free liquids and re	ecoverable materials have been removed an	d managed appropriately.
has begun, please attach	a narrative of actions to date. If remedial	emediation immediately after discovery of a release. If remediation efforts have been successfully completed or if the release occurred blease attach all information needed for closure evaluation.
regulations all operators are public health or the environing failed to adequately investig	required to report and/or file certain release notinent. The acceptance of a C-141 report by the Cate and remediate contamination that pose a three	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger OCD does not relieve the operator of liability should their operations have eat to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name:Conno	or Walker	Title: <u>Sr. Engineer</u>
Signature:	ma Walh	Date: _11/21/2023
	@ mewbourne.com	Telephone: 806-202-5281
OCD Only		
Received by: Shelly We	lls	Date: <u>11/27/2023</u>

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

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 288120

CONDITIONS

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	288120
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	y Condition	Condition Date
scwells	None	11/27/2023

RE: [EXTERNAL] NAPP2333028833 final sampling

From: "Wells, Shelly, EMNRD" <Shelly.Wells@emnrd.nm.gov>

To: Jason Owsley <jasono@diamondbacknm.com>

Cc: "Hamlet, Robert, EMNRD" <Robert.Hamlet@emnrd.nm.gov>, "Bratcher, Michael, EMNRD" <mike.bratcher@emnrd.nm.gov>

Date: Wed, 29 Nov 2023 17:27:48 +0000 (11/29/2023 10:27:48 AM)

Hi Jason,

The OCD has received your notification. Notification requirements are **two full business days**, per rule. You may proceed on your schedule. This, and all correspondence, should be included in the closure report to ensure inclusion in the project file.

Thank you,

Shelly

Shelly Wells * Environmental Specialist-Advanced Environmental Bureau EMNRD-Oil Conservation Division 1220 S. St. Francis Drive|Santa Fe, NM 87505 (505)469-7520|Shelly.Wells@emnrd.nm.gov http://www.emnrd.state.nm.us/OCD/

From: Jason Owsley <jasono@diamondbacknm.com>

Sent: Wednesday, November 29, 2023 9:39 AM

To: Enviro, OCD, EMNRD < OCD.Enviro@emnrd.nm.gov > **Subject:** [EXTERNAL] NAPP2333028833 final sampling

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

Please let this serve as a 48 hour notice to complete confirmation sampling at the Annabelle 18/13 W2PO Fed Com #1H Battery, located at 32.209880,-104.221992

Incident #NAPP2333028833.

Sampling will take place at 8:00 am on Friday devember, 1st, 2023.

If you need further information please feel free to reach out.

Jason Owsley

Phone (575)602-5998

Email: Jasono@diamondbacknm.com



2525 NW County Rd. Hobbs, NM 88240



December 07, 2023

JEFF BROOM
MEWBOURNE OIL COMPANY
P. O. BOX 5270
HOBBS, NM 88240

RE: ANNABELLE CTB

Enclosed are the results of analyses for samples received by the laboratory on 12/04/23 15:40.

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/ga/lab accred certif.html.

Cardinal Laboratories is accreditated 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.

Celey D. Keene

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,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

MEWBOURNE OIL COMPANY JEFF BROOM P. O. BOX 5270 HOBBS NM, 88240

Fax To: (575) 937-6252

Received: 12/04/2023 Sampling Date: 12/04/2023

Reported: 12/07/2023 Sampling Type: Soil

Project Name: ANNABELLE CTB Sampling Condition: Cool & Intact Project Number: MOC - 493 Sample Received By: Tamara Oldaker

Project Location: 32.210087-104.221917

Sample ID: B 1 @ 2' (H236501-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	6.74	
Toluene*	<0.050	0.050	12/05/2023	ND	2.07	104	2.00	4.17	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.16	108	2.00	3.65	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.37	106	6.00	6.05	
Total BTEX	<0.300	0.300	12/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/05/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2023	ND	208	104	200	1.89	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	196	97.8	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					
Surrogate: 1-Chlorooctane	95.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	89.8	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene



Analytical Results For:

MEWBOURNE OIL COMPANY JEFF BROOM P. O. BOX 5270 HOBBS NM, 88240

Fax To: (575) 937-6252

Received: 12/04/2023 Sampling Date: 12/04/2023

Reported: 12/07/2023 Sampling Type: Soil

Project Name: ANNABELLE CTB Sampling Condition: Cool & Intact
Project Number: MOC - 493 Sample Received By: Tamara Oldaker

Project Location: 32.210087-104.221917

Sample ID: B 2 @ 2' (H236501-02)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	6.74	
Toluene*	<0.050	0.050	12/05/2023	ND	2.07	104	2.00	4.17	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.16	108	2.00	3.65	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.37	106	6.00	6.05	
Total BTEX	<0.300	0.300	12/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	105	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	12/05/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2023	ND	208	104	200	1.89	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	196	97.8	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					
Surrogate: 1-Chlorooctane	93.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	86.7	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

MEWBOURNE OIL COMPANY JEFF BROOM P. O. BOX 5270 HOBBS NM, 88240

Fax To: (575) 937-6252

Received: 12/04/2023 Sampling Date: 12/04/2023

Reported: 12/07/2023 Sampling Type: Soil

Project Name: ANNABELLE CTB Sampling Condition: Cool & Intact
Project Number: MOC - 493 Sample Received By: Tamara Oldaker

Analyzed By: 1H /

Project Location: 32.210087-104.221917

ma/ka

Sample ID: B 3 @ 2' (H236501-03)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	6.74	
Toluene*	<0.050	0.050	12/05/2023	ND	2.07	104	2.00	4.17	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.16	108	2.00	3.65	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.37	106	6.00	6.05	
Total BTEX	<0.300	0.300	12/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	12/05/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2023	ND	208	104	200	1.89	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	196	97.8	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					
Surrogate: 1-Chlorooctane	96.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	90.1	% 49.1-14	8						

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Celeg D. Freene



Analytical Results For:

MEWBOURNE OIL COMPANY JEFF BROOM P. O. BOX 5270 HOBBS NM, 88240

Fax To: (575) 937-6252

Received: 12/04/2023 Sampling Date: 12/04/2023

Reported: 12/07/2023 Sampling Type: Soil

Project Name: ANNABELLE CTB Sampling Condition: Cool & Intact
Project Number: MOC - 493 Sample Received By: Tamara Oldaker

Analyzed By: 1H /

Project Location: 32.210087-104.221917

ma/ka

Sample ID: B 4 @ 2' (H236501-04)

RTFY 8021R

B1EX 8021B	mg	/кд	Anaiyze	a By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	6.74	
Toluene*	<0.050	0.050	12/05/2023	ND	2.07	104	2.00	4.17	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.16	108	2.00	3.65	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.37	106	6.00	6.05	
Total BTEX	<0.300	0.300	12/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/05/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2023	ND	208	104	200	1.89	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	196	97.8	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					
Surrogate: 1-Chlorooctane	76.0	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	73.1	% 49.1-14	8						

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Celeg D. Freene



Analytical Results For:

MEWBOURNE OIL COMPANY JEFF BROOM P. O. BOX 5270 HOBBS NM, 88240

Fax To: (575) 937-6252

Received: 12/04/2023 Sampling Date: 12/04/2023

Reported: 12/07/2023 Sampling Type: Soil

Project Name: ANNABELLE CTB Sampling Condition: Cool & Intact Sample Received By: Project Number: MOC - 493 Tamara Oldaker

Project Location: 32.210087-104.221917

Sample ID: B 5 @ 2' (H236501-05)

BTEX 8021B	mg,	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	6.74	
Toluene*	<0.050	0.050	12/05/2023	ND	2.07	104	2.00	4.17	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.16	108	2.00	3.65	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.37	106	6.00	6.05	
Total BTEX	<0.300	0.300	12/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/05/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2023	ND	208	104	200	1.89	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	196	97.8	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					
Surrogate: 1-Chlorooctane	94.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.4	% 49.1-14	8						

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Analytical Results For:

MEWBOURNE OIL COMPANY JEFF BROOM P. O. BOX 5270 HOBBS NM, 88240

Fax To: (575) 937-6252

Received: 12/04/2023 Sampling Date: 12/04/2023

Reported: 12/07/2023 Sampling Type: Soil

Project Name: ANNABELLE CTB Sampling Condition: Cool & Intact
Project Number: MOC - 493 Sample Received By: Tamara Oldaker

Project Location: 32.210087-104.221917

Sample ID: B 6 @ 2' (H236501-06)

BTEX 8021B	mg,	кд	Anaiyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	6.74	
Toluene*	<0.050	0.050	12/05/2023	ND	2.07	104	2.00	4.17	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.16	108	2.00	3.65	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.37	106	6.00	6.05	
Total BTEX	<0.300	0.300	12/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	12/05/2023	ND	416	104	400	3.77	
TPH 8015M	mg,	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2023	ND	208	104	200	1.89	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	196	97.8	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					
Surrogate: 1-Chlorooctane	95.2	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	91.0	% 49.1-14	8						

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Analytical Results For:

MEWBOURNE OIL COMPANY JEFF BROOM P. O. BOX 5270 HOBBS NM, 88240

Fax To: (575) 937-6252

Received: 12/04/2023 Sampling Date: 12/04/2023

Reported: 12/07/2023 Sampling Type: Soil

Project Name: ANNABELLE CTB Sampling Condition: Cool & Intact
Project Number: MOC - 493 Sample Received By: Tamara Oldaker

Project Location: 32.210087-104.221917

Sample ID: NORTHWALL 0-2' (H236501-07)

BTEX 8021B	mg	/kg	Analyze	ed By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	6.74	
Toluene*	<0.050	0.050	12/05/2023	ND	2.07	104	2.00	4.17	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.16	108	2.00	3.65	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.37	106	6.00	6.05	
Total BTEX	<0.300	0.300	12/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	104	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/05/2023	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2023	ND	208	104	200	1.89	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	196	97.8	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					
Surrogate: 1-Chlorooctane	94.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.5	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

MEWBOURNE OIL COMPANY JEFF BROOM P. O. BOX 5270 HOBBS NM, 88240

Fax To: (575) 937-6252

Received: 12/04/2023 Sampling Date: 12/04/2023

Reported: 12/07/2023 Sampling Type: Soil

Project Name: ANNABELLE CTB Sampling Condition: Cool & Intact
Project Number: MOC - 493 Sample Received By: Tamara Oldaker

Project Location: 32.210087-104.221917

Sample ID: SOUTHWALL 0-2' (H236501-08)

BTEX 8021B	mg	/kg	Analyze	d By: JH/					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	12/05/2023	ND	2.03	101	2.00	6.74	
Toluene*	<0.050	0.050	12/05/2023	ND	2.07	104	2.00	4.17	
Ethylbenzene*	<0.050	0.050	12/05/2023	ND	2.16	108	2.00	3.65	
Total Xylenes*	<0.150	0.150	12/05/2023	ND	6.37	106	6.00	6.05	
Total BTEX	<0.300	0.300	12/05/2023	ND					
Surrogate: 4-Bromofluorobenzene (PID	101	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	12/05/2023	ND	432	108	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	12/05/2023	ND	208	104	200	1.89	
DRO >C10-C28*	<10.0	10.0	12/05/2023	ND	196	97.8	200	2.59	
EXT DRO >C28-C36	<10.0	10.0	12/05/2023	ND					
Surrogate: 1-Chlorooctane	92.7	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.4	% 49.1-14	8						

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Celey D. Keine



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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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST



(575) 393-2326 FAX (575) 393-2476

Company Name: Marin John 1, CM 1	BILL TO	ANALYSIS REDITEST	
Project Manager:	P.O. #:	- 1	
Address:	Company:		
City: Hobbs State: N. M.Zip: 88240	Attn: Tell Brown		
Phone #: Fax #:			
Project #: MCC - 493 Project Owner:	city: Hobbos		
Project Name: Annobelle CTB.	State: NLZip: 88240	0	
Project Location: 32.210087 -104, 231917	Phone #: 575/605~6908	108	
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FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING		
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malyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after complicable rervice. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, iffiliates or successors arising out of or. Fried to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the a. Fried to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the a. Fried to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the a. Fried to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the a. Fried to the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the a. Fried to the performance of services hereunder by Cardinal regardless of whether such claim is based upon any of the a.	d received by Cardinal within 30 days after completion of the loss of use, or loss of profits incurred by client, its subsidiarie is based upon any of the a "so stated to accord or otherwise is based upon any of the a "so stated to accord or otherwise.	nn on are sidafle applicable sidafles,	
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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**

QUESTIONS

Action 308132

QUESTIONS

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	308132
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites					
Incident ID (n#)	nAPP2333028833				
Incident Name	NAPP2333028833 ANNABELLE 18/13 W2PO FED COM #1H BATTERY @ 0				
Incident Type	Produced Water Release				
Incident Status	Remediation Closure Report Received				

ocation of Release Source					
Please answer all the questions in this group.					
Site Name	ANNABELLE 18/13 W2PO FED COM #1H BATTERY				
Date Release Discovered	11/11/2023				
Surface Owner	Federal				

ncident Details					
Please answer all the questions in this group.					
Incident Type	Produced Water Release				
Did this release result in a fire or is the result of a fire	No				
Did this release result in any injuries	No				
Has this release reached or does it have a reasonable probability of reaching a watercourse	No				
Has this release endangered or does it have a reasonable probability of endangering public health	No				
Has this release substantially damaged or will it substantially damage property or the environment	No				
Is this release of a volume that is or may with reasonable probability be detrimental to fresh water	No				

Nature and Volume of Release	
Material(s) released, please answer all that apply below. Any calculations or specific justifications for	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Pipeline (Any) Produced Water Released: 22 BBL Recovered: 5 BBL Lost: 17 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 308132

Phone: (505) 476-3470 Fax: (505) 476-3462	,
QUEST	IONS (continued)
Operator: MEWBOURNE OIL CO P.O. Box 5270 Hobbs, NM 88241	OGRID: 14744 Action Number: 308132 Action Type: [C-141] Remediation Closure Request C-141 (C-141-v-Closure)
QUESTIONS	
Nature and Volume of Release (continued)	
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.
Initial Response	
The responsible party must undertake the following actions immediately unless they could create a	safety hazard that would result in injury.
The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.
	iliation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative o sted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for rele- the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required ases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com

Date: 02/01/2024

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QUESTIONS, Page 3

Action 308132

QUESTIONS (continued)

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	308132
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Site Characterization	
Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). 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 in feet below ground surface (ft bgs)	Between 75 and 100 (ft.)
What method was used to determine the depth to ground water	Estimate or Other
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	High
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan		
Please answer all the questions that apply or are indicated. This informa	on must be provided to the appropriate district office no later than 90 days after the release discovery date.	
Requesting a remediation plan approval with this submission	Yes Yes	
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.		
Have the lateral and vertical extents of contamination been for	ly delineated Yes	
Was this release entirely contained within a lined containme	t area No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 CI E	5607	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M	0	
GRO+DRO (EPA SW-846 Method 8015	<i>d</i>) 0	
BTEX (EPA SW-846 Method 8021	3 or 8260B) 0	
Benzene (EPA SW-846 Method 802	3 or 8260B) 0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC which includes the anticipated timelines for beginning and completing the remediation.		
On what estimated date will the remediation commence	11/29/2023	
On what date will (or did) the final sampling or liner inspection	occur 12/01/2023	
On what date will (or was) the remediation complete(d)	12/08/2023	
What is the estimated surface area (in square feet) that will	e reclaimed 1511	
What is the estimated volume (in cubic yards) that will be rec	aimed 105	
What is the estimated surface area (in square feet) that will	e remediated 1511	
What is the estimated volume (in cubic yards) that will be rea	ediated 105	
These estimated dates and measurements are recognized to be the best guess or calculation at the time of submission and may (be) change(d) over time as more remediation efforts are completed.		
The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to		

significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

District I

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Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

QUESTIONS, Page 4

Action 308132

QUESTIONS (continued)

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	308132
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Remediation Plan (continued)		
Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date.		
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:		
(Select all answers below that apply.)		
(Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.)		
Which OCD approved facility will be used for off-site disposal	HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	

Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation.

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.

I hereby agree and sign off to the above statement

Name: Connor Walker Title: Senior Engineer Email: cwalker@mewbourne.com

Date: 02/01/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to significantly deviate from the remediation plan proposed, then it should consult with the division to determine if another remediation plan submission is required.

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State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

QUESTIONS, Page 5

Action 308132

QUESTIONS	(continued)
QUESTIONS:	COHUHUCU <i>1</i>

Operator:	OGRID:
MEWBOURNE OIL CO	14744
	Action Number:
Hobbs, NM 88241	308132
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Deferral Requests Only	
Only answer the questions in this group if seeking a deferral upon approval this submission. Each of the following items must be confirmed as part of any request for deferral of remediation.	
Requesting a deferral of the remediation closure due date with the approval of this submission	No

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QUESTIONS, Page 6

Action 308132

QUESTIONS (continued)

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270	Action Number:
Hobbs, NM 88241	308132
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	309683
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	12/01/2023
What was the (estimated) number of samples that were to be gathered	8
What was the sampling surface area in square feet	1511

Remediation Closure Request	
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.	
Requesting a remediation closure approval with this submission	Yes
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
All areas reasonably needed for production or subsequent drilling operations have been stabilized, returned to the sites existing grade, and have a soil cover that prevents ponding of water, minimizing dust and erosion	Yes
What was the total surface area (in square feet) remediated	1511
What was the total volume (cubic yards) remediated	105
All areas not reasonably needed for production or subsequent drilling operations have been reclaimed to contain a minimum of four feet of non-waste contain earthen material with concentrations less than 600 mg/kg chlorides, 100 mg/kg TPH, 50 mg/kg BTEX, and 10 mg/kg Benzene	Yes
What was the total surface area (in square feet) reclaimed	1511
What was the total volume (in cubic yards) reclaimed	105
Summarize any additional remediation activities not included by answers (above)	Please refer to attached closure request for complete details on remediation and reclamation activities.

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 (in .pdf format) 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.

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.

Name: Connor Walker
Title: Senior Engineer
Email: cwalker@mewbourne.com
Date: 02/01/2024

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QUESTIONS, Page 7

Action 308132

QUESTIONS (continued)

Operator:	OGRID:
MEWBOURNE OIL CO	14744
P.O. Box 5270 Hobbs, NM 88241	Action Number:
	308132
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Reclamation Report		
Only answer the questions in this group if all reclamation steps have been completed.		
Requesting a reclamation approval with this submission	No	

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CONDITIONS

Action 308132

CONDITIONS

Operator:	OGRID:
MEWBOURNE OIL CO P.O. Box 5270	14744
	Action Number:
Hobbs, NM 88241	308132
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Created By		Condition Date
rhamlet	We have received your Remediation Closure Report for Incident #NAPP2333028833 ANNABELLE 18/13 W2PO FED COM #1H BATTERY, thank you. This Remediation Closure Report is approved.	4/3/2024