COTTON DRAW UNIT 114 BATTERY

11/2/2023

OCD INCIDENT # nAPP2330654822

Spills In Lined Containment						
Measurements	Of Standing Fluid					
Length (Ft)	100					
Width(Ft)	108					
Depth(in.)	0.54					
Total Capacity without tank displacements (bbls)	86.56					
No. of 500 bbl Tanks In						
Standing Fluid No. of Other Tanks In Standing Fluid	4					
OD Of Other Tanks In Standing Fluid(feet)						
Total Volume of standing fluid accounting for tank displacement.	80.51					



December 5, 2023

New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Closure Request

Cotton Draw Unit 114H Battery Incident Number NAPP2330654822 Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of Devon Energy Production Company (Devon), has prepared this *Closure Request* to document assessment and soil sampling activities performed at the **Cotton Draw Unit 114H Battery** (Site) in Unit B, Section 34, Township 24 South, Range 31 East, in Eddy County, New Mexico (Figure 1). The purpose of the Site assessment and soil sampling activities was to assess for the presence or absence of impacts to soil resulting from a release of produced water within a lined containment at the Site. Based on field observations, field screening activities, and laboratory analytical results, Devon is submitting this *Closure Request* and requesting closure for Incident Number NAPP2330654822.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Eddy County, New Mexico (32.18020287°, -103.7634653°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On November 2, 2023, Devon personnel discovered fluids inside containment, and it was determined the cone bottom tank was leaking and had released 80.5 barrels (bbls) of produced water inside the lined secondary containment. The tank was isolated to stop the release and a vacuum truck was immediately dispatched to the Site to recover free-standing fluids; 80 bbls of produced water were recovered from within the lined containment. The remaining 0.5 bbls evaporated and/or remained in low or unreachable areas in the lined containment. Devon reported the release to the New Mexico Oil Conservation Division (NMOCD) on a Release Notification Form C-141 (Form C-141) on November 2, 2023. The release was assigned Incident Number NAPP2330654822. A 48-hour advance notice of liner inspection was provided via email to the NMOCD office on November 6, 2023. A liner integrity inspection was conducted by Ensolum personnel on November 17, 2023, and the liner was determined to be intact and had the ability to contain the release in question.

SITE CHARACTERIZATION AND CLOSURE CRITERIA

The Site was characterized to assess 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

Ensolum, LLC | Environmental, Engineering & Hydrogeologic Consultants 3122 National Parks Highway | Carlsbad, New Mexico 88220 | ensolum.com



Assessment/Characterization for both releases, see Appendix A. Potential Site receptors are identified on Figure 1.

According to the New Mexico Office of the State Engineer (NMOSE), the closest permitted groundwater well with depth to groundwater data is C 04633 POD1, located approximately 0.5 miles east of the Site. The well had a reported depth to groundwater of greater than 55 feet below ground surface (bgs) and a total depth of 55 feet bgs. There are no regional or Site-specific hydrogeological conditions, such as shallow surface water, karst features, wetlands, or vegetation to suggest the Site is conducive to shallow groundwater. All wells used for depth to groundwater determination are presented on Figure 1. The referenced well record is included in Appendix B.

The closest continuously flowing or significant watercourse to the Site is a freshwater pond, located approximately 1.41 miles southwest 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 (low 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)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg

Total TPH: 2,500 mg/kgChloride: 10,000 mg/kg

SITE ASSESSMENT ACTIVITIES

On November 14, 2023, Site assessment activities were conducted to evaluate the release extent based on information provided on the Form C-141 and visual observations. On November 17, 2023, Ensolum personnel completed a liner integrity inspection and it was determined the liner remained intact. Four lateral delineation samples (SS01 through SS04) were collected around the lined containment at ground surface to confirm the release remained inside the lined secondary containment. Soil from the lateral delineation samples was field screened for TPH utilizing a calibrated PetroFLAG® soil analyzer system and chloride using Hach® chloride QuanTab® test strips. The delineation soil sample locations are depicted on Figure 2. Photographs were taken during the liner integrity inspection and during soil sampling activities and a photographic log is included in Appendix C.

All 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 Envirotech Analytical Laboratory (Envirotech) in Farmington, New Mexico, for analysis of the following chemicals of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following EPA Method 300.0.



LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for soil samples SS01 through SS04, collected outside of the lined secondary containment, were compliant with the strictest Closure Criteria per NMOCD Table I. Laboratory analytical results are summarized in Table 1 and the complete laboratory analytical report is included as Appendix D.

CLOSURE REQUEST

Following the liner integrity inspection and delineation sampling at the Site, it was determined the release was contained laterally and vertically by the lined secondary containment. The remaining 0.5 bbls evaporated and/or remained in low or unreachable areas in the lined containment. Based on initial response efforts, laboratory analytical results for lateral delineation soil samples (SS01 through SS04), and a lack of visual evidence indicating the release breached the containment liner, it has been determined COC impacts are not present at the Site as associated with this release. In addition, waste-containing soil was not documented and as such, reclamation is not required for this release. Actions completed to-date have been protective of human health, the environment, and groundwater. As such, Devon respectfully requests closure for Incident Number nAPP2330654822.

If you have any questions or comments, please contact Ms. Ashley Giovengo at (575) 988-0055 or agiovengo@ensolum.com.

Sincerely,

Ensolum, LLC

Ashley Giovengo Senior Engineer Daniel R. Moir, PG Senior Managing Geologist

cc: Dale Woodall, Devon

Bureau of Land Management

Appendices:

Figure 1 Site Receptor Map

Figure 2 Delineation Soil Sample Locations
Table 1 Soil Sample Analytical Results

Appendix A Form C-141

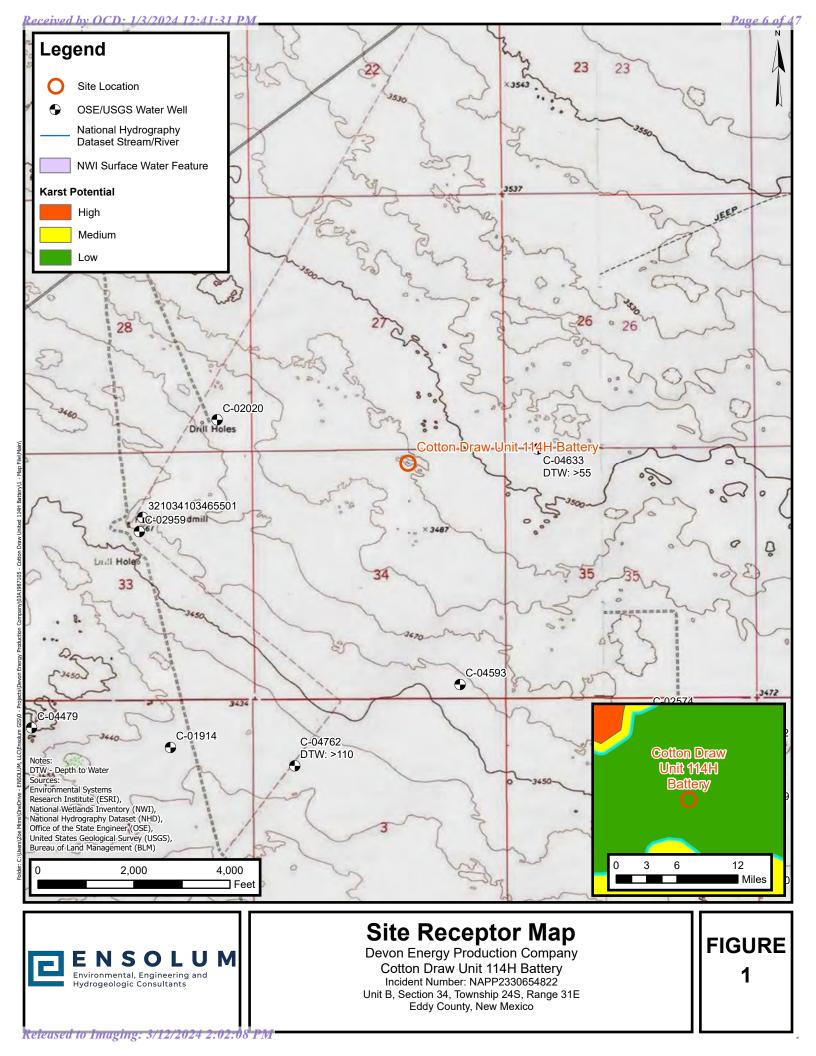
Appendix B Well Record and Log Appendix C Photographic Log

Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation

Appendix E NMOCD Correspondence



FIGURES







Delineation Soil Sample Locations Devon Energy Production Company Cotton Draw Unit 114H Battery Incident Number: nAPP2330654822

Unit B, Section 34, Township 24S, Range 31E Eddy Co., New Mexico

FIGURE 2



TABLES



TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS

Cotton Draw Unit 114H Battery
Devon Energy
Eddy County, New Mexico

	Eddy County, New Mexico											
Sample Designation	Date	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	1,000	2,500	10,000			
				Deli	neation Soil Sam	ples						
SS01	11/17/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	312		
SS02	11/17/2023	0	<0.025	< 0.025	<20.0	<25.0	<50.0	<25.0	<50.0	29.5		
SS03	11/17/2023	0	<0.025	<0.025	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0		
SS04	11/17/2023	0	< 0.025	< 0.025	<20.0	<25.0	<50.0	<25.0	<50.0	343		

Notes:

bgs: below ground surface mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code

Grey text represents samples that have been excavated

"<": Laboratory Analytical result is less than reporting limit

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

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

^{*} Indicates sample was collected in area to be reclaimed after remediation is complete; reclamation for chloride in the top 4 feet is 600 mg/kg and total TPH is 100 mg/kg.



APPENDIX A

C-141 Forms

<u>District I</u> 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 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources Department

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141 Revised August 24, 2018 Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible l	Party			OGRID	OGRID				
Contact Nam	e			Contact Te	ontact Telephone				
Contact emai	1			Incident #	Incident # (assigned by OCD)				
Contact maili	ing address			1					
			Location	of Release So	ource				
Latitude				Longitude _					
			(NAD 83 in dec	cimal degrees to 5 decin	nal places)				
Site Name				Site Type					
Date Release	Discovered			API# (if app	plicable)				
Unit Letter	Section	Township	Range	Coun	nty				
Surface Owner				l Volume of I		e volumes provided below)			
Crude Oil		Volume Release		carculations of specific	Volume Reco				
Produced	Water	Volume Release	d (bbls)		Volume Recovered (bbls)				
			ion of total dissolv		Yes No				
Condensa	te	in the produced Volume Release	water >10,000 mg	/1?	Volume Recovered (bbls)				
Natural G		Volume Release							
Other (des			Released (provide	nunite)	Volume Recovered (Mcf) Volume/Weight Recovered (provide units)				
	scribe)	volume/weight	Released (provide	, units)	V Oldfile/ VV CI	gni Recovered (provide units)			
Cause of Rele	ease								

Received by OCD: 1/3/2024 12:41:31 PM Form C-141 State of New Mexico Page 2 Oil Conservation Division

	ruge 12 0j
Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by	If YES, for what reason(s) does the respon	nsible party consider this a major release?
19.15.29.7(A) NMAC?		
☐ Yes ☐ No		
If YES, was immediate no	ptice given to the OCD? By whom? To wh	nom? When and by what means (phone, email, etc)?
		(
	Initial Ro	esponse
The responsible p	party must undertake the following actions immediately	y unless they could create a safety hazard that would result in injury
The source of the rele	ease has been stopped.	
	s been secured to protect human health and	the environment.
Released materials ha	we been contained via the use of berms or c	likes, absorbent pads, or other containment devices.
☐ All free liquids and re	ecoverable materials have been removed and	d managed appropriately.
If all the actions described	d above have <u>not</u> been undertaken, explain	why:
has begun, please attach a	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 clease attach all information needed for closure evaluation.
regulations all operators are a public health or the environm failed to adequately investiga	required to report and/or file certain release noti ment. The acceptance of a C-141 report by the C ate and remediate contamination that pose a thre	best of my knowledge and understand that pursuant to OCD rules and fications and perform corrective actions for releases which may endanger DCD does not relieve the operator of liability should their operations have at to groundwater, surface water, human health or the environment. In responsibility for compliance with any other federal, state, or local laws
Printed Name: Dale W		Title: Env. Professional
Signature: Dale U	Doodall	Date:
email:dale.woodall@d	vn.com	Telephone: 575-748-1838
OCD Only		
Received by: _Shelly We	lls	Date: 11/3/2023

	Page 13 of 41
Incident ID	nAPP2330654822
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Site Assessment/Characterization

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

What is the shallowest depth to groundwater beneath the area affected by the release?	_>55(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.	
 \infty Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring well \infty Field data 	ls.
☐ Data table of soil contaminant concentration data	
Depth to water determination Determination of water sources and significant watersources within 1/2 mile of the letteral extents of the release	
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: 1/3/2024 12:41:31 PM Form C-141 State of New Mexico Oil Conservation Division Page 4

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Incident ID	nAPP2330654822
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. Printed Name: <u>Dale Woodall</u> Title: <u>Environmental Professional</u> Signature: Dals Woodall Date: 12/8/2023 email: dale.woodall@dvn.com Telephone: 575-748-1838 **OCD Only** Received by: _____

Date: _____

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

nAPP2330654822 Incident ID District RP Facility ID Application ID

Closure

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

A scaled site and sampling diagram as described in 19.15.29.1	1 NMAC
Photographs of the remediated site prior to backfill or photos must be notified 2 days prior to liner inspection)	of the liner integrity if applicable (Note: appropriate OCD District office
☐ 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	nediate contamination that pose a threat to groundwater, surface water, a C-141 report does not relieve the operator of responsibility for tions. The responsible party acknowledges they must substantially additions that existed prior to the release or their final land use in CD when reclamation and re-vegetation are complete. Title: Environmental Professional Date: 12/8/2023
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 or regulations.
Closure Approved by:	Date:
Printed Name:	Title:
	



APPENDIX B

Well Log and Record



OSE POD NO. (WI POD 1 (TW-1)				WELL TAG ID NO N/A),		OSE FILE NO(S). C-4633					
WELL OWNER N							PHONE (OPTIONAL)					
Devon Energy							575-748-18					
WELL OWNER M 6488 7 Rivers		ESS					CITY Artesia			TATE M	88210	ZIP
WELL	T	Di	EGREES	MINUTES	SECONDS							
LOCATION (FROM GPS)	LATITUDE		32	10	51.34	N	* ACCURACY * DATUM RE	5.5.4		OF A SEC	COND	
	LONGITUD		103	45	17.05	W	1 2 2 2 2 2 2 2 2 2	*******				
DESCRIPTION R				ESS AND COMMO	N LANDMARK	S – PLS	SS (SECTION, TO	WNSHJIP, RA	NGE) WHERE	E AVAIL	ABLE	
LICENSE NO.	NAM	E OF LICENSED	DRILLER					NAME OF	WELL DRILLI	NG COM	IPANY	
1249			Ja	ckie D. Atkin	s				kins Engine			nc.
DRILLING STAR	100	LING ENDED 5/2/2022		PLETED WELL (FT) BO		LE DEPTH (FT) ±55	DEPTH W	ATER FIRST E	N/A	TERED (FT)	
COMPLETED WELL IS: ARTESIAN			✓ DRY HOLE				IN COM	WATER LEV PLETED WEL		DA	TE STATIC 1	
DRILLING FLUID		AIR	☐ MUD	ADDITI	VES – SPECIFY		(FT)		-	-		
							Hollow Stem	Auger	CHECK HE	RE IF PIT	LESS ADAF	PTER
DRILLING METHOD: ROTARY HAMMER CABLE TOOL OTHER - SPECIFY:							ionow stem	Auger	INSTALLE	D		_
DEPTH (fee	t bgl) B	BORE HOLE	CASING MATERIAL AND/OR GRADE			CASING CONNECTION					ASING WALL THICKNESS	
FROM TO DIAM (inches)		(include each casing string, and			YPE ling diameter)	(inches)			(inches)			
0	55	±6.5	F	Boring-HSA		-						
1 1												
								, art, my tan	PL 99 - W1 14 2	2 3 M/	08.8 25.0	000
								שכע	DII JUN	TUZ	INTERNATION	23
									-			-
			-							_		-
DEPTH (fee	t bel) p	BORE HOLE	118	T ANNULAR S	EAI MATE	PIAI A	AND	AM	OUNT	_	метно	D.O
FROM		IAM. (inches)		EL PACK SIZI					ic feet)		PLACEM	
				- FRANCE AND						-		
OSE INTERNAL		Land I					WR-2	0 WELL RI	ECORD & L	OG (Ve	ersion 01/2	8/202

	DEPTH (eet bgl)	(y. s. 11	COLOR AND TYPE OF MATERIAL ENCOUNTERED -		WATER	ESTIMATED YIELD FOR
	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZO! (attach supplemental sheets to fully describe all units)	NES	BEARING? (YES / NO)	WATER- BEARING ZONES (gpm)
Ī	0	4	4	Sand, Fine-grained, poorly graded, 2.5 YR 3/6, Dark Red		Y VN	
	4	55	51	Sand, Fine-grained, poorly graded, with Caliche, 7.5 YR 7/4, Pir	nk	Y ✓N	
						Y N	
	37					Y N	
						Y N	
3						Y N	
						Y N	
						Y N	
			A TOTAL			Y N	
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						Y N	
						Y N	
* HIDROGEOGOGO CON HEEL						Y N	
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	-					Y N	
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			1			Y N	
	METHOD U			OF WATER-BEARING STRATA: BAILER OTHER - SPECIFY:	0.000	AL ESTIMATED LL YIELD (gpm):	0.00
rest, Mid soft Envision	WELL TES	STAF	FORMATION: Te be	ACH A COPY OF DATA COLLECTED DURING WELL TESTING, I ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN Of imporary well material removed and soil boring backfilled using low ground surface(bgs), then hydrated bentonite chips ten feet lotton Draw Unit 213	drill cur	ttings from total de	D. pth to ten feet
3. 1531;	PRINT NAM	6.79(6)		VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CO	ONSTRU	ICTION OTHER TH	AN LICENSEE
o signal care	AND THE P	RECORD (OF THE ABOVE D	IES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND B ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WEL 0 DAYS AFTER COMPLETION OF WELL DRILLING: Jackie D. Atkins	ELIEF, T L RECO	THE FOREGOING IS RD WITH THE STA 6/9/2022	S A TRUE ANI TE ENGINEEI
5	0	SIGNA	TURE OF DRILLE	R / PRINT SIGNEE NAME		DATE	
OP	OSE INTER	NAT HEE		WD 20 V	VEII DE	ECORD & LOG (Ver	sion 01/28/2023
	7.13.		-90D1 (TW-1 POD NO. TRN NO.		26271	310II V1/20/2022
_	CATION (100		31.35.211 WELL TAG ID N			PAGE 2 OF

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 726271 File Nbr: C 04633

Well File Nbr: C 04633 POD1

Jun. 10, 2022

DALE WOODALL
DEVON ENERGY
6488 7 RIVERS HWY
ARTESIA, NM 88210

Greetings:

The above numbered permit was issued in your name on 05/24/2022.

The Well Record was received in this office on 06/10/2022, stating that it had been completed on 06/02/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 05/24/2023.

If you have any questions, please feel free to contact us.

Sincerely,

Maret Amaral (575)622-6521

drywell



APPENDIX C

Photographic Log



Photographic Log

Devon Energy Production Company Cotton Draw Unit 114H Battery Incident Number nAPP2330654822





Photograph 1 Date: 11/17/2023

Description: Liner Integrity Inspection

View: East

Photograph 2 Date: 11/17/2023

Description: Liner Integrity Inspection

View: West





Photograph 3 Date: 11/17/2023

Description: Liner Integrity Inspection

View: South

Photograph 4 Date: 11/17/2023

Description: Liner Integrity Inspection

View: Northeast

ENSOLUM

Photographic Log

Devon Energy Production Company Cotton Draw Unit 114H Battery Incident Number nAPP2330654822





Photograph 5 Date: 11/17/2023

Description: Liner Integrity Inspection

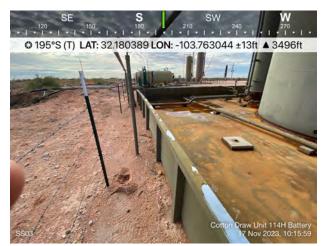
View: Northeast

Photograph 6 Date: 11/17/2023

Description: Delineation Sampling

View: Northeast





Date: 11/17/2023

Photograph 7 Date: 11/17/2023 Photograph 8

Description: Delineation Sampling Description: Delineation Sampling

View: Southeast View: South



APPENDIX D

Laboratory Analytical Reports & Chain-of-Custody Documentation

Report to:
Ashley Giovengo



5796 U.S. Hwy 64 Farmington, NM 87401

Phone: (505) 632-1881 Envirotech-inc.com





envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: Cotton Draw Unit 114H Battery

Work Order: E311177

Job Number: 01058-0007

Received: 11/21/2023

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 11/30/23

Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.

Statement of Data Authenticity: Envirotech Inc, attests the data reported has not been altered in any way.

Partial or incomplete reproduction of this report is prohibited, unless approved by Envirotech Inc.

Envirotech Inc, holds the Utah TNI certification NM00979 for data reported.

Envirotech Inc, holds the Texas TNI certification T104704557 for data reported.

Date Reported: 11/30/23

Ashley Giovengo 6488 7 Rivers Hwy Artesia, NM 88210

Project Name: Cotton Draw Unit 114H Battery

Workorder: E311177

Date Received: 11/21/2023 7:30:00AM

Ashley Giovengo,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 11/21/2023 7:30:00AM, under the Project Name: Cotton Draw Unit 114H Battery.

The analytical test results summarized in this report with the Project Name: Cotton Draw Unit 114H Battery apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

Please review the Chain-of-Custody (COC) and Sample Receipt Checklist (SRC) for any issues reguarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

All reported data in this analytical report were analyzed according to the referenced method(s) and are in compliance with the latest NELAC/TNI standards, unless otherwise noted. Samples or analytical quality control parameters not meeting specific QC criteria are qualified with a data flag. Data flag definitions are located in the Notes and Definitions section of this analytical report.

If you have any questions concerning this report, please feel free to contact Envirotech, Inc.

Respectfully,

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Sample Summary

Devon Energy - Carlsbad	Project Name:	Cotton Draw Unit 114H Battery	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	Reporteu:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/30/23 15:47

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
SS01-0'	E311177-01A Soil	11/17/23	11/21/23	Glass Jar, 2 oz.
SS02-0'	E311177-02A Soil	11/17/23	11/21/23	Glass Jar, 2 oz.
SS03-0'	E311177-03A Soil	11/17/23	11/21/23	Glass Jar, 2 oz.
SS04-0'	F311177-04A Soil	11/17/23	11/21/23	Glass Jar. 2 oz.



Devon Energy - Carlsbad	Project Name:	Cotton Draw Unit 114H Battery	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/30/2023 3:47:03PM

SS01-0' E311177-01

		DOTTITY OF					
Austra	Result	Reporting Limit		ution	Prepared	A l d	Notes
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2347085
Benzene	ND	0.0250		1	11/22/23	11/28/23	
Ethylbenzene	ND	0.0250		1	11/22/23	11/28/23	
Toluene	ND	0.0250		1	11/22/23	11/28/23	
o-Xylene	ND	0.0250		1	11/22/23	11/28/23	
p,m-Xylene	ND	0.0500		1	11/22/23	11/28/23	
Total Xylenes	ND	0.0250		1	11/22/23	11/28/23	
Surrogate: Bromofluorobenzene		95.3 %	70-130		11/22/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130		11/22/23	11/28/23	
Surrogate: Toluene-d8		92.0 %	70-130		11/22/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2347085
Gasoline Range Organics (C6-C10)	ND	20.0		1	11/22/23	11/28/23	
Surrogate: Bromofluorobenzene		95.3 %	70-130		11/22/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4		97.7 %	70-130		11/22/23	11/28/23	
Surrogate: Toluene-d8		92.0 %	70-130		11/22/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: KM		Batch: 2348056
Diesel Range Organics (C10-C28)	ND	25.0		1	11/29/23	11/29/23	
Oil Range Organics (C28-C36)	ND	50.0		1	11/29/23	11/29/23	
Surrogate: n-Nonane		84.9 %	50-200		11/29/23	11/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: BA		Batch: 2348060
Chloride	312	20.0		1	11/29/23	11/29/23	_



Devon Energy - Carlsbad	Project Name:	Cotton Draw Unit 114H Battery	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/30/2023 3:47:03PM

SS02-0'

E311177-02

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	I	Analyst: Rl	KS		Batch: 2347085
Benzene	ND	0.0250	1		11/22/23	11/28/23	
Ethylbenzene	ND	0.0250	1		11/22/23	11/28/23	
Toluene	ND	0.0250	1		11/22/23	11/28/23	
o-Xylene	ND	0.0250	1		11/22/23	11/28/23	
p,m-Xylene	ND	0.0500	1		11/22/23	11/28/23	
Total Xylenes	ND	0.0250	1		11/22/23	11/28/23	
Surrogate: Bromofluorobenzene	·	95.6 %	70-130		11/22/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130		11/22/23	11/28/23	
Surrogate: Toluene-d8		92.2 %	70-130		11/22/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: Rl	KS		Batch: 2347085
Gasoline Range Organics (C6-C10)	ND	20.0	1		11/22/23	11/28/23	
Surrogate: Bromofluorobenzene		95.6 %	70-130		11/22/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130		11/22/23	11/28/23	
Surrogate: Toluene-d8		92.2 %	70-130		11/22/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	1	Analyst: K	М		Batch: 2348056
Diesel Range Organics (C10-C28)	ND	25.0	1		11/29/23	11/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1		11/29/23	11/29/23	
Surrogate: n-Nonane		86.6 %	50-200		11/29/23	11/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	ı	Analyst: B	A		Batch: 2348060
Amons by ETA 500.0/7050A							



Devon Energy - CarlsbadProject Name:Cotton Draw Unit 114H Battery6488 7 Rivers HwyProject Number:01058-0007Reported:Artesia NM, 88210Project Manager:Ashley Giovengo11/30/2023 3:47:03PM

SS03-0'

E311177-03

		Reporting					
Analyte	Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2347085
Benzene	ND	0.0250	1	l	11/22/23	11/28/23	
Ethylbenzene	ND	0.0250	1	l	11/22/23	11/28/23	
Toluene	ND	0.0250	1	l	11/22/23	11/28/23	
o-Xylene	ND	0.0250	1	l	11/22/23	11/28/23	
p,m-Xylene	ND	0.0500	1	l	11/22/23	11/28/23	
Total Xylenes	ND	0.0250	1	[11/22/23	11/28/23	
Surrogate: Bromofluorobenzene		96.8 %	70-130		11/22/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130		11/22/23	11/28/23	
Surrogate: Toluene-d8		91.6 %	70-130		11/22/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	-	Analyst:	RKS		Batch: 2347085
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	11/22/23	11/28/23	
Surrogate: Bromofluorobenzene		96.8 %	70-130		11/22/23	11/28/23	
Surrogate: 1,2-Dichloroethane-d4		95.6 %	70-130		11/22/23	11/28/23	
Surrogate: Toluene-d8		91.6 %	70-130		11/22/23	11/28/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	KM		Batch: 2348056
Diesel Range Organics (C10-C28)	ND	25.0	1	1	11/29/23	11/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1	[11/29/23	11/29/23	
Surrogate: n-Nonane		87.5 %	50-200		11/29/23	11/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	BA		Batch: 2348060



Devon Energy - Carlsbad	Project Name:	Cotton Draw Unit 114H Battery	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/30/2023 3:47:03PM

SS04-0'

	.77-	-04

		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: R	KS		Batch: 2347085
Benzene	ND	0.0250	1		11/22/23	11/29/23	
Ethylbenzene	ND	0.0250	1		11/22/23	11/29/23	
Toluene	ND	0.0250	1		11/22/23	11/29/23	
o-Xylene	ND	0.0250	1		11/22/23	11/29/23	
p,m-Xylene	ND	0.0500	1		11/22/23	11/29/23	
Total Xylenes	ND	0.0250	1		11/22/23	11/29/23	
Surrogate: Bromofluorobenzene		98.5 %	70-130		11/22/23	11/29/23	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130		11/22/23	11/29/23	
Surrogate: Toluene-d8		85.2 %	70-130		11/22/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	1	Analyst: R	KS		Batch: 2347085
Gasoline Range Organics (C6-C10)	ND	20.0	1		11/22/23	11/29/23	
Surrogate: Bromofluorobenzene		98.5 %	70-130		11/22/23	11/29/23	
Surrogate: 1,2-Dichloroethane-d4		95.1 %	70-130		11/22/23	11/29/23	
Surrogate: Toluene-d8		85.2 %	70-130		11/22/23	11/29/23	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst: K	М		Batch: 2348056
Diesel Range Organics (C10-C28)	ND	25.0	1		11/29/23	11/29/23	
Oil Range Organics (C28-C36)	ND	50.0	1		11/29/23	11/29/23	
Surrogate: n-Nonane		85.1 %	50-200		11/29/23	11/29/23	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: B	A		Batch: 2348060

QC Summary Data

Devon Energy - Carlsbad Cotton Draw Unit 114H Battery Project Name: Reported: Project Number: 6488 7 Rivers Hwy 01058-0007 Artesia NM, 88210 Project Manager: Ashley Giovengo 11/30/2023 3:47:03PM **Volatile Organic Compounds by EPA 8260B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2347085-BLK1) Prepared: 11/22/23 Analyzed: 11/29/23 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.480 0.500 96.0 70-130 Surrogate: 1,2-Dichloroethane-d4 0.467 0.500 93.3 70-130 0.500 102 70-130 Surrogate: Toluene-d8 0.508 LCS (2347085-BS1) Prepared: 11/22/23 Analyzed: 11/29/23 2.83 0.0250 2.50 113 70-130 Benzene 2.50 105 70-130 2.62 Ethylbenzene 0.0250 2.30 0.0250 2.50 91.8 70-130 3.24 129 70-130 0.0250 2.50 o-Xylene 5.13 5.00 103 70-130 p,m-Xylene 0.0500 8.36 0.0250 7.50 112 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.648 0.500 130 70-130 0.500 92.4 70-130 Surrogate: 1,2-Dichloroethane-d4 0.462 70-130 Surrogate: Toluene-d8 0.454 0.500 Matrix Spike (2347085-MS1) Source: E311177-03 Prepared: 11/22/23 Analyzed: 11/30/23 2.23 0.0250 2.50 ND 89.4 48-131 45-135 Ethylbenzene 2.21 0.0250 2.50 ND 88.4 48-130 Toluene 2.09 0.0250 2.50 ND 83.8 2.60 0.0250 2.50 ND 104 43-135 o-Xylene 5.00 ND 110 43-135 p,m-Xylene 5.50 0.0500 Total Xylenes 8.10 0.0250 7.50 ND 108 43-135 Surrogate: Bromofluorobenzene 0.489 0.500 97.8 70-130 0.500 87.8 70-130 Surrogate: 1,2-Dichloroethane-d4 0.439 0.500 70-130 0.404 80.8 Surrogate: Toluene-d8 Matrix Spike Dup (2347085-MSD1) Source: E311177-03 Prepared: 11/22/23 Analyzed: 11/29/23 2.80 0.0250 2.50 ND 112 48-131 22.5 23 2.51 0.0250 2.50 ND 45-135 12.7 27 Ethylbenzene ND 96.7 48-130 14.3 24 2.42 2.50 Toluene 0.0250 o-Xylene 2.39 0.0250 2.50 ND 95.4 43-135 8.62 27 4.70 5.00 ND 94.0 43-135 27 0.0500 15.6 p,m-Xylene 27 7.09 0.0250 7.50 ND 94.5 43-135 13.3 Total Xylenes Surrogate: Bromofluorobenzene 0.471 0.500 94.1 70-130



0.500

0.500

0.490

0.459

97.9

91.7

70-130

70-130

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

QC Summary Data

Devon Energy - CarlsbadProject Name:Cotton Draw Unit 114H BatteryReported:6488 7 Rivers HwyProject Number:01058-0007Artesia NM, 88210Project Manager:Ashley Giovengo11/30/20233:47:03PM

6488 / Rivers Hwy		Project Number		058-0007					44/20/2022 2 47 027		
Artesia NM, 88210		Project Manager	r: As	shley Gioven	go				11/30/2023 3:47:03P		
Nonhalogenated Organics by EPA 8015D - GRO											
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limi			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2347085-BLK1)							Prepared: 1	1/22/23	Analyzed: 11/29/23		
Gasoline Range Organics (C6-C10)	ND	20.0									
Surrogate: Bromofluorobenzene	0.480		0.500		96.0	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.467		0.500		93.3	70-130					
Surrogate: Toluene-d8	0.508		0.500		102	70-130					
LCS (2347085-BS2)							Prepared: 1	1/22/23	Analyzed: 11/30/23		
Gasoline Range Organics (C6-C10)	54.7	20.0	50.0		109	70-130					
Surrogate: Bromofluorobenzene	0.603		0.500		121	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130					
Surrogate: Toluene-d8	0.464		0.500		92.8	70-130					
Matrix Spike (2347085-MS2)				Source:	E311177-0	3	Prepared: 1	1/22/23	Analyzed: 11/30/23		
Gasoline Range Organics (C6-C10)	42.3	20.0	50.0	ND	84.6	70-130					
Surrogate: Bromofluorobenzene	0.509		0.500		102	70-130					
Surrogate: 1,2-Dichloroethane-d4	0.413		0.500		82.5	70-130					
Surrogate: Toluene-d8	0.481		0.500		96.1	70-130					
Matrix Spike Dup (2347085-MSD2)				Source:	E311177-0	3	Prepared: 1	1/22/23	Analyzed: 11/29/23		
Gasoline Range Organics (C6-C10)	45.4	20.0	50.0	ND	90.7	70-130	7.01	20			
Surrogate: Bromofluorobenzene	0.479		0.500		95.7	70-130					

0.500

0.500

0.473

0.461

94.6

92.1

70-130

70-130



QC Summary Data

Devon Energy - Carlsbad	Project Name:	Cotton Draw Unit 114H Battery	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	_
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/30/2023 3:47:03PM

Artesia NM, 88210		Project Manage	r: As	hley Gioveng	go				11/30/2023 3:47:03PM
	Nonha	logenated Or	ganics by l	EPA 8015I) - DRO	ORO			Analyst: KM
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2348056-BLK1)							Prepared: 1	1/29/23	Analyzed: 11/29/23
biesel Range Organics (C10-C28)	ND	25.0							
vil Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	45.4		50.0		90.8	50-200			
CS (2348056-BS1)							Prepared: 1	1/29/23	Analyzed: 11/29/23
riesel Range Organics (C10-C28)	230	25.0	250		92.1	38-132			
urrogate: n-Nonane	45.5		50.0		91.1	50-200			
Matrix Spike (2348056-MS1)				Source:	E311177-0	1	Prepared: 1	1/29/23	Analyzed: 11/29/23
riesel Range Organics (C10-C28)	236	25.0	250	ND	94.4	38-132			
urrogate: n-Nonane	46.2		50.0		92.4	50-200			
Matrix Spike Dup (2348056-MSD1)				Source:	E311177-0	1	Prepared: 1	1/29/23	Analyzed: 11/29/23
riesel Range Organics (C10-C28)	238	25.0	250	ND	95.1	38-132	0.694	20	
urrogate: n-Nonane	45.7		50.0		91.4	50-200			



Chloride

Chloride

Matrix Spike Dup (2348060-MSD1)

QC Summary Data

Devon Energy - Carlsbad Project Name: Cotton Draw Unit 1 6488 7 Rivers Hwy Project Number: 01058-0007 Artesia NM, 88210 Project Manager: Ashley Giovengo						Battery		1	Reported: 1/30/2023 3:47:03PM
Altesia IVIVI, 00210	Analyst: BA								
Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
Blank (2348060-BLK1)							Prepared: 1	1/29/23 Ar	nalyzed: 11/29/23
Chloride	ND	20.0							
LCS (2348060-BS1)							Prepared: 1	1/29/23 Ar	nalyzed: 11/29/23
Chloride	251	20.0	250		100	90-110			
Matrix Spike (2348060-MS1)				Source:	E311159-	23	Prepared: 1	1/29/23 Ar	nalyzed: 11/29/23

250

250

20.0

20.0

29.5

29.5

104

102

Source: E311159-23

80-120

80-120

1.38

Prepared: 11/29/23 Analyzed: 11/29/23

20

290

286

QC Summary Report Comment:

Calculations are based off of the raw (non-rounded) data. However, for reporting purposes all QC data is rounded to three significant figures. Therefore, hand calculated values may differ slightly.



Definitions and Notes

Devon Energy - Carlsbad	Project Name:	Cotton Draw Unit 114H Battery	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Ashley Giovengo	11/30/23 15:47

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

DNR Did not react with the addition of acid or base.

Note (1): Methods marked with ** are non-accredited methods.

Note (2): Soil data is reported on an "as received" weight basis, unless reported otherwise.



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Client: D	evon Energy					Bill To				Lä	b Us	se Onl	У	V 1000	T	-	7	ГАТ		EPA Pr	ogram
Project:	Cotton Draw	Unit 114	1H Batter					Lab	WO#			Job N				1D 2D 3D Standard			tandard	CWA	SDWA
	Manager: As				<u> Ad</u>	Address: 5315 Buena Vista Dr			311	<u> </u>	<u> </u>	01058-000							Χ		
4	3122 Natio					y, State, Zip: Carlsbad NM, 8	38220					Analys	is ar	d Met	rod				4, 6, 7%		RCRA
1	e, Zip: Carls		88220		<u> Ph</u>	one: (575)689-7597			<u> </u>						j		1	1			
7	<u>575-988-005</u>				_ Em	nail: Dale.woodall@dvn.com	l,		8			ll			1		-			State	
	giovengo@e	<u>nsolum.c</u>	com		-				80	21	8	。	0.0		2		¥		NM CO	UT AZ	TX
Report d	ue by:							ļ	lõ I	y 8021	/876	[용	16 3C	ĺ		- 1			×		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			Lab Number		TPH GRO/DRO/ORO by 8015	BTEX by 8	VOC by 8260	Metals 6010	Chloride 300.0		JUGSa		Spoc			Remarks	
9:23	11/17/2023	Soil	1			SS01 - 0'	1							i)						:
9:25	11/17/2023	Soil	1			SS02 -0'	2								>						
9:27	11/17/2023	Soil	1			SS03 - 0'	3								>						
9:29	11/17/2023	Soil	1			SS04 - 0'	4								,						
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						h this COC. The liability of the labor															



Printed: 11/21/2023 10:55:53AM

Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

If we receive no response concerning these items within 24 hours of the date of this notice, all the samples will be analyzed as requested.

Client:	Devon Energy - Carlsbad	Date Received:	11/21/23	07:30	Work Order ID:	E311177
Phone:	(505) 382-1211	Date Logged In:	11/20/23	15:13	Logged In By:	Alexa Michaels
Email:	ashley.giovengo@wescominc.com	Due Date:	11/30/23	17:00 (5 day TAT)		
Chain of	Custody (COC)					
1. Does th	ne sample ID match the COC?		Yes			
2. Does th	ne number of samples per sampling site location ma	tch the COC	Yes			
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes			
5. Were al	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes		Comment	ts/Resolution
Sample T	urn Around Time (TAT)	011.			<u> </u>	
	COC indicate standard TAT, or Expedited TAT?		Yes			
Sample C	<u>Cooler</u>					
7. Was a s	sample cooler received?		Yes			
8. If yes, v	was cooler received in good condition?		Yes			
9. Was the	e sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
	were custody/security seals intact?		NA			
12. Was the	e sample received on ice? If yes, the recorded temp is 4°C. Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes			
Sample C		temperature. <u>1</u>	<u>~</u>			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers	9	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lab	· · ·	ners conceted:	103			
	field sample labels filled out with the minimum info	armation:				
	ample ID?	mation.	Yes			
	ate/Time Collected?		Yes			
	ollectors name?		Yes			
Sample P	<u>reservation</u>					
21. Does t	the COC or field labels indicate the samples were p	reserved?	No			
22. Are sa	imple(s) correctly preserved?		NA			
24. Is lab	filteration required and/or requested for dissolved n	netals?	No			
Multipha	se Sample Matrix					
	the sample have more than one phase, i.e., multipha	se?	No			
	does the COC specify which phase(s) is to be analy		NA			
		•				
	act Laboratory	9	Ma			
	amples required to get sent to a subcontract laborator	-	No NA	C 1 4 4 1 1 NA		
29. was a	subcontract laboratory specified by the client and i	i so wiio?	NA	Subcontract Lab: NA		
Client In	<u>struction</u>					

Page 15 of 15

Signature of client authorizing changes to the COC or sample disposition.



APPENDIX E

Email Correspondence

From: Wells, Shelly, EMNRD

To: Ashley Giovengo; Morgan, Crisha A; Woodall, Dale

Cc: Cole Burton; Ethan Haft; Chad Hamilton; Hamlet, Robert, EMNRD; Bratcher, Michael, EMNRD

RE: [EXTERNAL] 48-hour Liner Inspection Notification - Devon Energy Production Company - Cotton Draw Unit Subject:

114H Battery - Incident Number nAPP2330654822

Date: Monday, November 13, 2023 9:22:18 AM image001.png

image002.png image003.png image004.png

[**EXTERNAL EMAIL**]

Hi Ashley,

Attachments:

The OCD has received your notification. Include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented 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<u>| Shelly.Wells@emnrd.nm.gov</u>

http://www.emnrd.state.nm.us/OCD/

From: Ashley Giovengo <agiovengo@ensolum.com>

Sent: Friday, November 10, 2023 8:55 AM

To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>; Morgan, Crisha A <camorgan@blm.gov>; Woodall, Dale <dale.woodall@dvn.com>

Cc: Cole Burton <cburton@ensolum.com>; Ethan Haft <ehaft@ensolum.com>; Chad Hamilton <chamilton@ensolum.com>

Subject: [EXTERNAL] 48-hour Liner Inspection Notification - Devon Energy Production Company -Cotton Draw Unit 114H Battery - Incident Number nAPP2330654822

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

Hello,

We intend to perform a liner integrity inspection at Devon Energy Production Company's Cotton Draw Unit 114H Battery (*nAPP2330654822*) on Tuesday, November 14, 2023, at 09:00 am MST.

Please let us know if you plan to be onsite to oversee the inspection.

Thanks,



<u>District I</u> 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**

QUESTIONS

Action 299508

QUESTIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	299508
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Prerequisites						
Incident ID (n#)	nAPP2330654822					
Incident Name	NAPP2330654822 COTTON DRAW UNIT 114H BATTERY @ 0					
Incident Type	Produced Water Release					
Incident Status	Remediation Closure Report Received					
Incident Facility	[fAPP2130733894] COTTON DRAW UNIT 114H BATTERY					

ocation of Release Source						
Please answer all the questions in this group.						
Site Name	COTTON DRAW UNIT 114H BATTERY					
Date Release Discovered	11/02/2023					
Surface Owner	Federal					

Incident Details	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 fo	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 Production Tank Produced Water Released: 81 BBL Recovered: 80 BBL Lost: 1 BBL.					
Is the concentration of chloride in the produced water >10,000 mg/l	No					
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)	Lease Operator found water in the lined containment. The cone bottom tank was leaking due to a pinhole. Tank was isolated to stop leak. 80.5 bbls released. 80 bbls recovered.					

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1220 S. St Francis Dr., Santa Fe, NM 87505

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

QUESTIONS, Page 2

Action 299508

Phone: (505) 476-3470 Fax: (505) 476-3462	
QUEST	IONS (continued)
Operator: DEVON ENERGY PRODUCTION COMPANY, LP	OGRID: 6137
333 West Sheridan Ave. Oklahoma City, OK 73102	Action Number: 299508
Ordinal Gry, Gr. 70102	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	Yes
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.
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 second create as	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.
	iation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of ted 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 relethe 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 asses 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 t 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: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com

District I
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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 3

Action 299508

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	299508
	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 approva release discovery date.	l and beyond). This information must be provided to the appropriate district office no later than 90 days after the	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)	
What method was used to determine the depth to ground water	NM OSE iWaters Database Search	
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 1 and 5 (mi.)	
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Greater than 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	Greater than 5 (mi.)	
Any other fresh water well or spring	Greater than 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	Between 1 and 5 (mi.)	
Categorize the risk of this well / site being in a karst geology	Low	
A 100-year floodplain	Greater than 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 information 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
Attach a comprehensive report demonstrating the lateral and vertical extents of soil contaminatio	n 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 fully delineated	Yes
Was this release entirely contained within a lined containment area	Yes
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes complete which includes the anticipated timelines for beginning and completing the remediation.	ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,
On what estimated date will the remediation commence	11/14/2023
On what date will (or did) the final sampling or liner inspection occur	11/14/2023
On what date will (or was) the remediation complete(d)	11/14/2023
What is the estimated surface area (in square feet) that will be remediated	0
What is the estimated volume (in cubic yards) that will be remediated	0
These estimated dates and measurements are recognized to be the best guess or calculation at the	ne 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

1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 **District II**

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7000 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

QUESTIONS, Page 4

Action 299508

QUESTIONS (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	299508
	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 remedia	te / reduce contaminants:	
(Select all answers below that apply.)		
Is (or was) there affected material present needing to be removed	No	
Is (or was) there a power wash of the lined containment area (to be) performed	Yes	
OTHER (Non-listed remedial process)	No	
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	

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.

Name: Dale Woodall
Title: EHS Professional
Email: Dale.Woodall@dvn.com
Date: 01/03/2024

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.

District I

Phone: (575) 393-6161 Fax: (575) 393-0720

District II

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1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 **District IV**

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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 6

Action 299508

QUESTIONS (con	tinuea)
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Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	299508
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

QUESTIONS

Liner Inspection Information	
Last liner inspection notification (C-141L) recorded	299530
Liner inspection date pursuant to Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC	11/17/2023
Was all the impacted materials removed from the liner	Yes
What was the liner inspection surface area in square feet	3637

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	Yes		
What was the total surface area (in square feet) remediated	0		
What was the total volume (cubic yards) remediated	0		
Summarize any additional remediation activities not included by answers (above)	n/a		

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 o 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.

I hereby agree and sign off to the above statement

Name: Dale Woodall Title: EHS Professional Email: Dale.Woodall@dvn.com

Date: 01/03/2024

District I
1625 N. French Dr., Hobbs, NM 88240
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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**

CONDITIONS

Action 299508

CONDITIONS

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	299508
	Action Type:
	[C-141] Remediation Closure Request C-141 (C-141-v-Closure)

CONDITIONS

Cre	ated By		Condition Date	
cr	ystal.walker	Liner Integrity Inspection and Closure Approved.	3/12/2024	