****** LIQUID SPILLS - VOLUME CALCULATIONS ******

Location of spill:	Dolores AIL Federal #3	1/23/2025	
	If the leak/spill is associated with prod	uction equipment, i.e wellhead, stuffing box	,
	flowline, tank battery, production vessel	, transfer pump, or storage tank place an "X" here	e: X

Input Data: OIL: WATER: If spill volumes from measurement, i.e. metering, tank volumes, etc.are known enter the volumes here: 0.0000 BBL 0.0000 BBL If "known" spill volumes are given, input data for the following "Area Calculations" is optional. The above will override the calculated volumes. **Total Area Calculations** Standing Liquid Calculations Standing Liquid Area
Rectangle Area #1 Total Surface Area

Rectangle Area #1 width width oil (%) length wet soil depth oil (%) length liquid depth 21 ft X 0 ft X 10 ft 17 ft 1 in 150 ft 0 ft X 0.00 in 0 in Rectangle Area #2 Rectangle Area #2 0 ft X X X X X X 0 ft X X X X X X 0% Rectangle Area #3 0.00 in 0% Rectangle Area #3 0 ft 0 ft 0 in 0% 0.00 in 0.00 in Rectangle Area #4 0% 0% 0 ft 0 in 0 in 0% 0% Rectangle Area #4 0 ft Rectangle Area #5 Rectangle Area #6 Rectangle Area #7 Rectangle Area #5 Rectangle Area #6 0 ft 0 ft 0.00 in 0% 0 ft 0 ft 0% 0 in 0% 0% 0.00 in Rectangle Area #7 0 ft 0 ft 0 in 0% Rectangle Area #8 0 ft X 0.00 in Rectangle Area #8 0 ft **0** in

		ol	xay .
		production system leak - DAILY	PRODUCTION DATA REQUIRED
Average Daily Production:	Oil Wat	er	
	BBL	0 BBL	
Did leak occur before the separ	rator?: YES	X N/A (place an "X")	
Amount of Free Liquid Recovered:	1 BBL	okay	Percentage of Oil in Free Liquid Recovered: 50% (percentage)
Liquid holding factor *:	0.14 gal per gal	Use the following when the spill wets * sand = .08 gallon liquid per gallon v * gravelly (caliche) loam = .14 gallon in * sandy clay loam soil = .14 gallon in * clay loam = .16 gallon liquid per gal	volume of soil. Occures when the spill soaked soil is contained by barriers, natural (or not). iquid per gallon volume of soil. * gravelly (caliche) loam = .25 gallon liquid per gallon volume of soil. * sandy loam = .5 gallon liquid per gallon volume of soil.

ſ	Saturated Soil Volume	e Calculations:	1100	0"	Free Liquid Volu	me Calculations:	1100	011
	Total Solid/Liquid Volume:	3,150 sq. ft.	<u>H2O</u> 837 cu. ft.	OIL 148 cu. ft.	Total Free Liquid Volume:	170 sq. ft.	<u>H2O</u> .000 cu. ft.	OIL 7.083 cu. ft.
	Estimated Volumes Sp	oilled			Estimated Production V	olumes Lost		
		d in Soil:	<u>H2O</u> 20.9 BBL	OIL 3.7 BBL	Estimated Producti	on Spilled:	<u>H2O</u> 0.000000 BBL	OIL 0.000000 BBL
	Free	e Liquid: Totals:	0.0 BBL 20.862 BBL	1.3 BBL 4.943 BBL	Estimated Surface I Surface Area:	Damage 3,150 sq. ft.		
	Total Liquid Spil	II Liquid:	20.862 BBL	4.943 BBL	Surface Area:	.0723 acre		
	Recovered Volume	<u>s</u>			Estimated Weights, an	d Volumes		
	Estimated oil recovered: Estimated water recovered:	0.5 BBL 0.5 BBL	check - c	*	Saturated Soil = Total Liquid =	110,250 lbs 26 BBL	984 cu.ft. 1,083.82 gallon	36 cu.yds. 9,017 lbs



General Information

County:	Eddy	Incident ID:	Unknown
Landowner:	Federal	Location:	32.393634, -103.742007
Client:	EOG Resources, Inc.	Site Location:	Dolores AIL Federal #003
Date:	February 22, 2025	Project #:	25A-00478
Client Contact:	Chase Settle	Phone #:	575.703.6537
Vertex PM:	Chance Dixon	Phone #:	575.988.1472

Objective

The objective of the environmental remediation work plan is to identify exceedances found during the site assessment/characterization activity and propose an appropriate remediation technique to address the incident at Dolores AIL Federal #003. The incident was caused by internal erosion of the poly flow line. The release was initially reported as 3 barrels of oil and 1 barrel of produced water with one barrel of material recovered. However, further site investigation revealed that the original release estimate was under-reported from the field. The official calculated release estimate is 5 barrels of oil and 20 barrels of produced water. Areas of environmental concern identified and delineated include: the pasture adjacent to the northwest corner of the pad. Closure criteria has been selected as per New Mexico Administrative Code (NMAC) 19.15.29.12. All applicable research as it pertains to closure criteria selection is presented in Attachment 2. The closure criteria for the site is presented below.

Table 1. Closure Criteria for Soils to Remediation & Reclamation Standards									
	Constituent	Limit							
0.4 feet has (10.15.20.12)	Chloride	600 mg/kg							
0-4 feet bgs (19.15.29.13)	TPH (GRO+DRO+MRO)	100 mg/kg							
	Chloride	20,000 mg/kg							
	TPH (GRO+DRO+MRO)	2,500 mg/kg							
DTGW > 100 feet (19.15.29.12)	GRO+DRO	1,000 mg/kg							
	ВТЕХ	50 mg/kg							
	Benzene	10 mg/kg							

DTGW - Depth to groundwater

bgs - Below ground surface

TPH – Total petroleum hydrocarbons = gasoline range organics (GRO) + diesel range organics (DRO) + motor oil range organics (MRO)

BTEX - Benzene, toluene, ethylbenzene, and xylenes

Site Assessment/Characterization

Site characterization began on February 4, 2025, and was completed on February 5, 2025. A total of seven sample points were established and 23 samples collected for field screening. Samples at the deepest vertical distance below closure criteria were submitted to the laboratory for analysis. In total, 19 samples were submitted to Cardinal Laboratories, Hobbs, New Mexico, for analysis. The sample locations are presented in Attachment 1. Laboratory analysis results have been compared to the above noted closure criteria and the results from the characterization activity are presented in Attachment 2. Exceedances are identified in the table as bold with a green background.

Remedial Activities

General

Areas identified with contaminant concentrations above closure criteria will be remediated through excavation. Laboratory results from the site assessment/characterization have been referenced to estimate both the vertical and horizontal limits of the impacts and the volume of soil to be removed. Soil will be excavated to the extents of the known contamination in exceedance to the closure criteria

VERSATILITY. EXPERTISE.





presented in Table 1. Field screening will be utilized to confirm removal of contaminated soil below the applicable closure criteria. Once excavation is complete, confirmatory samples will be collected and laboratory analysis completed to confirm closure criteria guidelines are met. Excavations will be backfilled with clean soil sourced locally.

Field screening and laboratory analysis were utilized to find the horizontal and vertical extents of the spill area. A total of 23 samples were collected for analysis in the pasture adjacent to the constructed pad. Heavy equipment will be used to complete excavation of the release. Field screening from five-point composite samples at 200-square-foot intervals will be utilized to find the horizontal and vertical extents of the spill area. Confirmatory samples will be collected as per New Mexico Oil Conservation Division guidance and submitted for laboratory analysis of all applicable parameters. The estimated volume to be excavated is 8,140 cubic yards.

Sample Point	Excavation Depth	Remediation Method
BH25-01	7'	Backhoe
BH25-02	7'	Backhoe
BH25-03	7'	Backhoe

Variance Request

Vertex would like to request a variance for the closure criteria of the site. The most recent DTGW data in the vicinity of the site is an exploratory borehole which was overseen by Carmona Resources, LLC. (Carmona). The borehole was placed approximately 0.74 miles away from the site, which is outside of NMOCD's required 0.5-mile window. It was recorded as a dry hole at 105 feet bgs in 2022. The proposed variance seeks to assume the >100 feet closure criteria listed in Table 1 of 19.15.29.12 NMAC. There is also a reference from the New Mexico Office of the State Engineer (NMOSE) located approximately 1.26 miles away (C-4144 POD 13). Details for the bore logs associated with the DTGW references described above are located in Attachment 3. With no other water or karst receptors being affected at the site, there are no groundwater risks associated with the site, and it will provide equal protection to the environment.

Should you have any questions or concerns, please do not hesitate to contact Chance Dixon at 575.988.1472 or cdixon@vertexresource.com.

John Rewis	5/15/2025	
John Rewis tohn Rewis, B.Sc.	Date	
ENVIRONMENTAL TECHNICIAN, REPORTING		
Chance Dixon	5/15/2025	
Chance Dixon, B.Sc.	Date	
PROJECT MANAGER. REPORT REVIEW		

Attachments

Attachment 1. Characterization Sampling Site Schematic

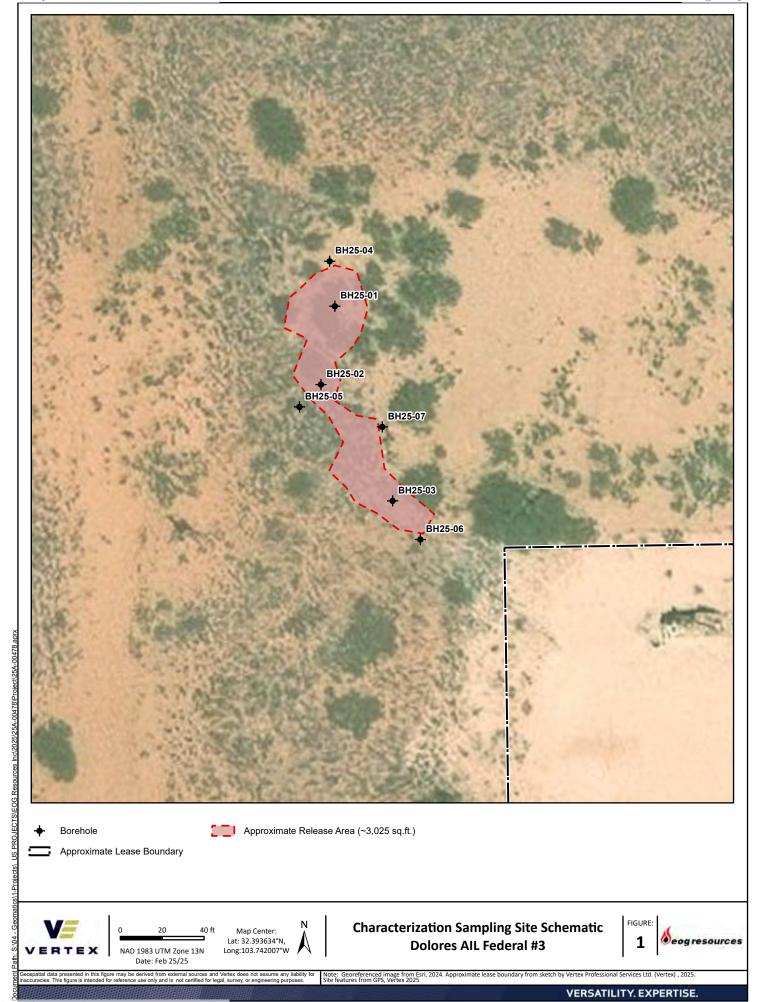
Attachment 2. Characterization Analytical Summary

Attachment 3. Closure Criteria Research

Attachment 4. Laboratory Data Reports and Chain of Custody Forms

VERSATILITY. EXPERTISE.

ATTACHMENT 1



ATTACHMENT 2

Client Name: EOG Resources Inc. Site Name: Dolores AIL Federal #3

Project #: 25A-00478

Lab Report: H250711, H250887, H250955

		Table 3. Cha	racterizat	ion Sampl	e Laborato	ory Results	5			
	Sample Do	escription			Petrole	eum Hydrod	arbons			
			Vol	atile			Extractable)		Inorganic
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride Concentration
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
						th to Grour				
	0.0	February 4, 2025	1.83	106	2160	9040	1650	11200	12850	33,600
BH25-01	2.0	February 4, 2025	ND	ND	ND	ND	ND	ND	ND	7,400
	4.0	February 4, 2025	ND	ND	ND	19.2	ND	19.2	19.2	2,600
	0.0	February 4, 2025	6.44	261	6690	27700	4880	34390	39270	8,480
BH25-02	2.0	February 4, 2025	ND	ND	ND	ND	ND	ND	ND	288
	4.0	February 4, 2025	ND	ND	ND	137	20.2	137	157.2	10,000
	0.0	February 4, 2025	17.6	413	5620	18500	3650	24120	27770	9,400
	2.0	February 4, 2025	5.86	271	4710	13900	1390	18610	20000	4,480
BH25-03	4.0	February 4, 2025	ND	2.45	85.9	1090	185	1175.9	1360.9	6,130
	6.0	February 5, 2025	ND	2.25	162	1000	157	1162	1319	5,460
	8.0	February 5, 2025	ND	ND	ND	60	ND	60	60	14,400
BH25-04	0.0	February 4, 2025	ND	ND	ND	ND	ND	ND	ND	ND
БП25-04	2.0	February 4, 2025	ND	ND	ND	ND	ND	ND	ND	ND
DUIZE OF	0.0	February 4, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BH25-05	2.0	February 4, 2025	ND	ND	ND	ND	ND	ND	ND	ND
DUDE OC	0.0	February 4, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BH25-06	2.0	February 4, 2025	ND	ND	ND	ND	ND	ND	ND	ND
DU25 07	0.0	February 4, 2025	ND	ND	ND	ND	ND	ND	ND	ND
BH25-07	2.0	February 4, 2025	ND	ND	ND	ND	ND	ND	ND	ND

[&]quot;ND" Not Detected at the Reporting Limit

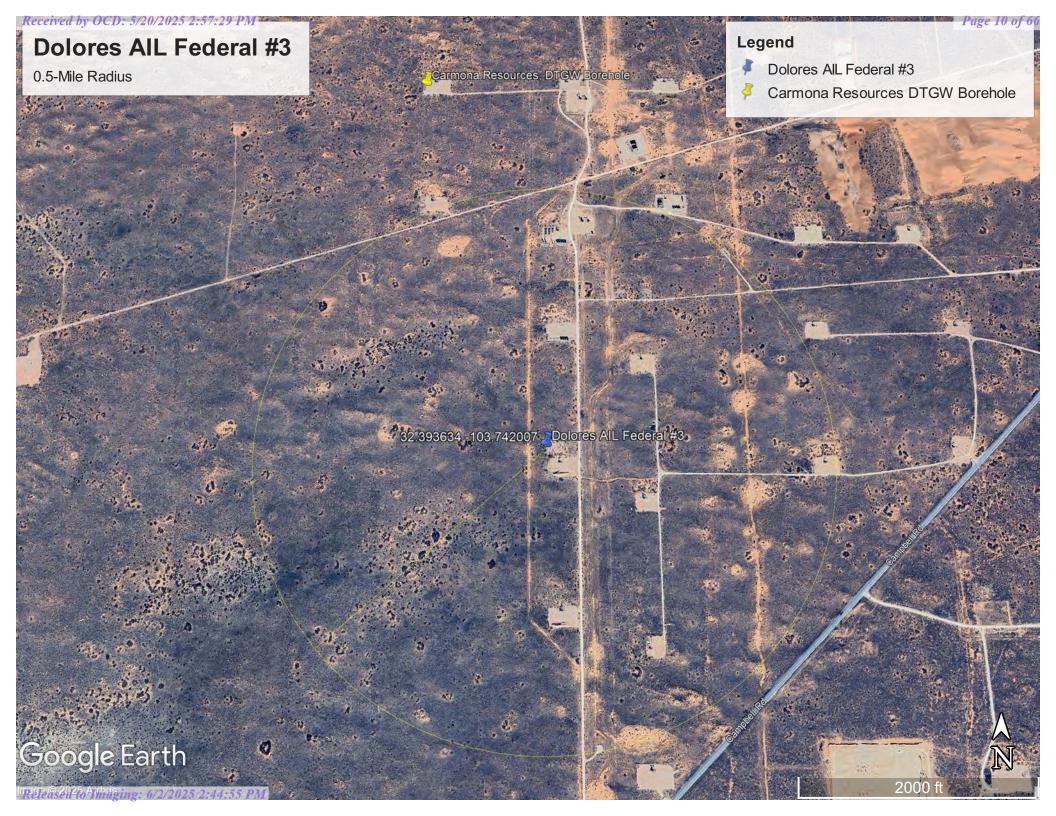
Bold and green shaded indicates exceedance outside of NMOCD Reclamation Criteria (off-pad)



[&]quot;-" indicates not analyzed/assessed

ATTACHMENT 3

	riteria Determination e: DOLORES AIL FEDERAL #3		
	rdinates: 32.393339, -103.741514	X: UTM 618364.55	Y: UTM 3584732.1
	ific Conditions	Value	Unit
	Depth to Groundwater (nearest reference)	>105	feet
		3,907	feet
1	Distance between release and nearest DTGW reference	0.74	miles
	Date of nearest DTGW reference measurement	March	n 2, 2022
_	Within 300 feet of any continuously flowing watercourse	0.244	
2	or any other significant watercourse	8,314	feet
2	Within 200 feet of any lakebed, sinkhole or playa lake	25 550	foot
3	(measured from the ordinary high-water mark)	35,559	feet
	Within 300 feet from an occupied residence, school,	22.465	foot
4	hospital, institution or church	32,165	feet
	i) Within 500 feet of a spring or a private, domestic fresh		
	water well used by less than five households for	8,208	feet
5	domestic or stock watering purposes, or		
	ii) Within 1000 feet of any fresh water well or spring		feet
	II) Within 1000 feet of any fresh water well of spring		leet
	Within incorporated municipal boundaries or within a		
	defined municipal fresh water field covered under a		
6	municipal ordinance adopted pursuant to Section 3-27-3	No	(Y/N)
6	NMSA 1978 as amended, unless the municipality		(Y/N) feet
	specifically approves		
7	Within 300 feet of a wetland	19,149	feet
	Within the area overlying a subsurface mine	No	(Y/N)
8			
	Distance between release and nearest registered mine	41,866	feet
			Critical
			High
9	Within an unstable area (Karst Map)	Low	Medium
			Low
	Distance between release and nearest unstable area	20,480	feet
	Within a 100-year Floodplain	>500	year
10	Distance between release and nearest FEMA Zone A (100	52.74	
	year Floodplain)	53,744	feet
11	Soil Type	ŀ	KM
12	Ecological Classification	Dee	p Sand
13	Geology	C	Дер
			<50'
	NMAC 19.15.29.12 E (Table 1) Closure Criteria	>100'	51-100'
			>100'





Project Name : Martha AIK Federal No. 13

Project No. : 1016

Location: Eddy Co, New Mexico Coordinates : 32.4038688, -103.7457492

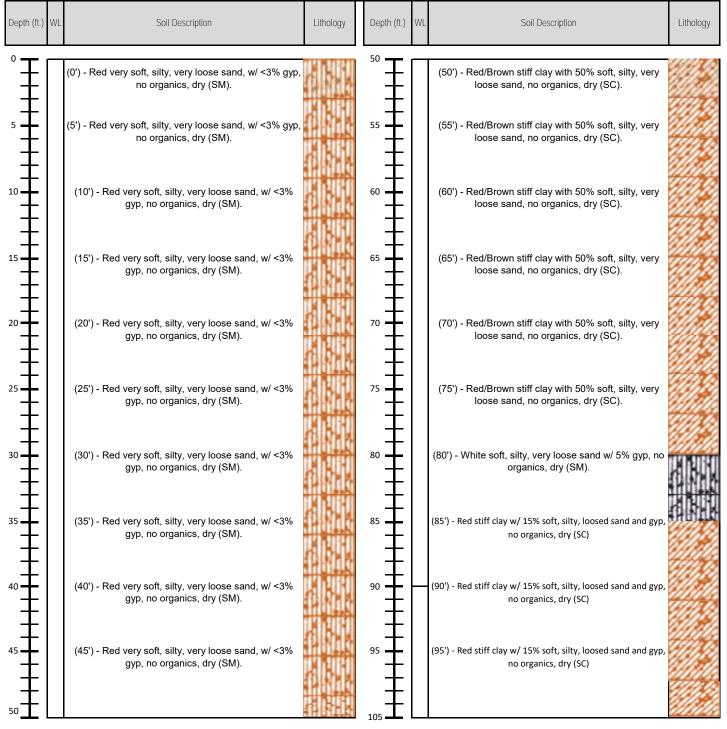
Elevation: 3,583

Date: Wednesday, March 2, 2022

Sampler: **Clinton Merritt**

Driller: Scarborough Drilling

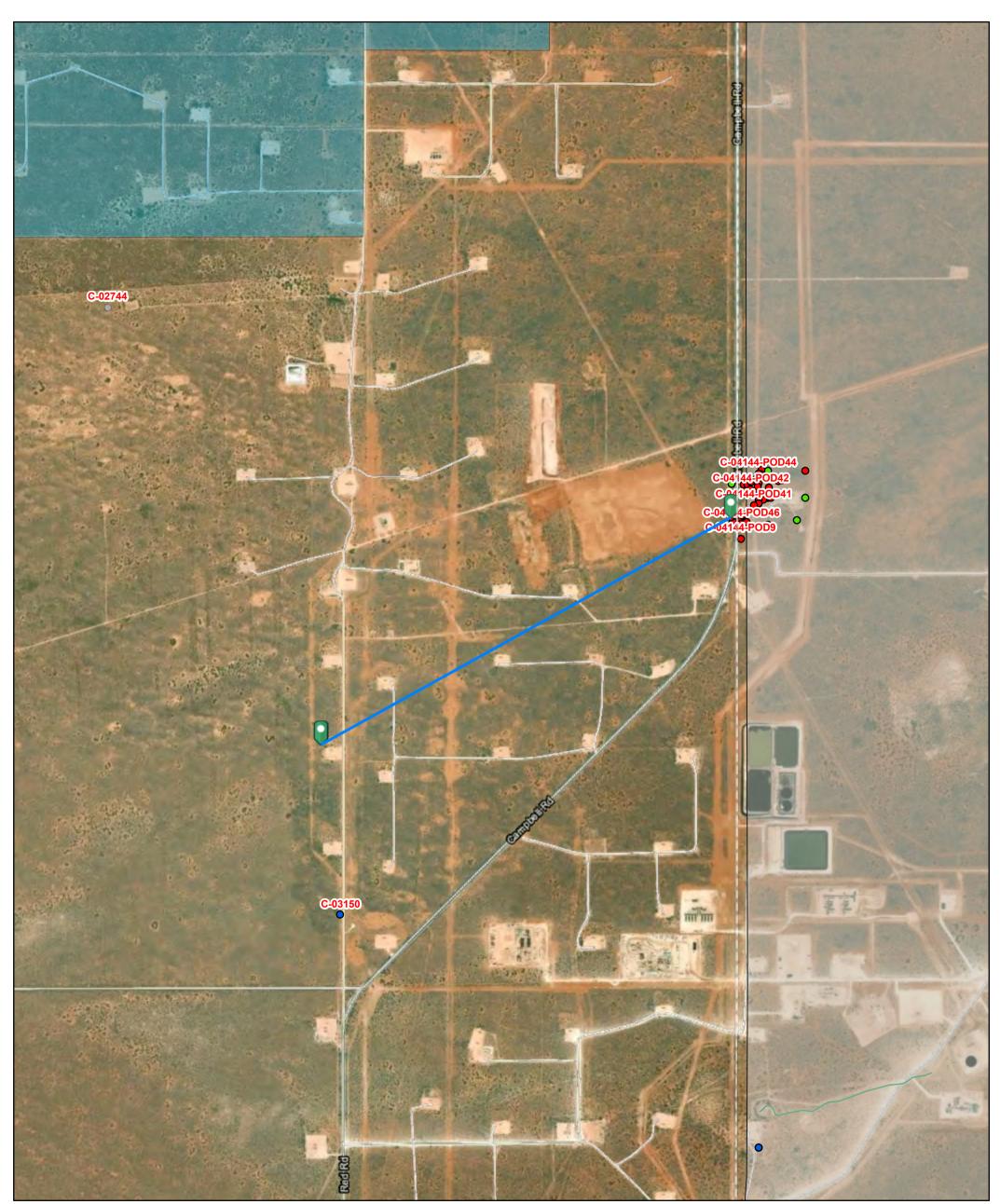
Method: Air Rotary



Comments: 12:30 (CT) Boring terminated at 105' with no presence of groundwater or moisture.

9:13 (CT) 03/07/2022 no presence of groundwater was detected

Dolores AIL Federal #3 - C-4144 POD 13



3/4/2025, 1:44:18 PM

Override 1 GIS WATERS PODs **OSE District Boundary** Water Right Regulations Active Closure Area

Pending

Plugged

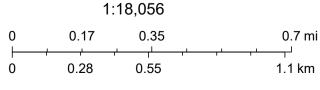
New Mexico State Trust Lands

Both Estates

NHD Flowlines

Artificial Path

Artesian Planning Area Stream River



Esri, HERE, iPC, Esri, HERE, Garmin, iPC, Maxar

PAGE 1 OF 2

WELL TAG ID NO.



	OD NO. (WEI	L NO.)		WELL TAG ID N	О.		OSE FILE NO(C-4144	S).					
FODT					LIVI VV - I I									
EOG R	OWNER NA							PHONE (OPTI 432-848-914						
WELL	OWNER MA	ILING	ADDRESS					CITY		STAT	ΓE	ZIP		
5509 C	Champion	s Driv	ve					Midland		Texa	ıs	79706		
"	VELL		DI	EGREES	MINUTES	SECON								
LOC	CATION	LAT	TTUDE	32	IN .			REQUIRED: ONE T	ENTH OF	A SECOND				
(FRO	OM GPS)	LON	GITUDE	-103	43	23.	28 W	* DATUM RE	QUIRED: WGS 84					
,			G WELL LOCATION TO outh of US Highwa		ESS AND COMMO	ON LANDM.	ARKS – PLS	SS (SECTION, TO	WNSHJIP, RANGE)	WHERE A	VAILABLE			
LICENS	SE NO. 1664		NAME OF LICENSED	DRILLER	Shawn Cain				NAME OF WELL		COMPANY e Drilling			
DRILLI	ING STARTE 8/5/21	ED	DRILLING ENDED 8/10/21	DEPTH OF COM	NA	(FT)		LE DEPTH (FT) 105	DEPTH WATER I		COUNTERED (FT)).		
	LETED WEL	L IS:	ARTESIAN	DRY HOLE	E SHALL	LOW (UNCO	NFINED)		STATIC WATER I		COMPLETED WELL (FT)			
DRILLI	ING FLUID:		AIR	☐ MUD	ADDIT	IVES – SPEC	CIFY:							
DRILLI	ING METHO	D:	ROTARY	☐ HAMMER	CABLE	TOOL	✓ OTHE	R - SPECIFY:		Roto S	Sonic			
DE	DEPTH (feet bgl)		BORE HOLE	CASING N	MATERIAL AN	ND/OR	C	ASING	CASING	CA	CASING WALL S			
DRILLI DRILLI DE FROI	М	то	DIAM (inches)		GRADE each casing string, and esections of screen CONNECTIO TYPE (add coupling diam		NECTION TYPE	INSIDE DIAM (inches)	1 1 1 1 1 1 1	THICKNESS (inches) (in				
									2022384		MAR. 11.5			
									USEDIIN	JU 24	2021 #KL131			
DE	EPTH (feet	bgl)	BORE HOLE	LIS	T ANNULAR	SEAL MA	TERIAL	AND	AMOUN	г	метно	DD OF		
		то	DIAM. (inches)		VEL PACK SIZ				(cubic fee		PLACE			
FRO 0		105	6		Cement w	rith 5% Ber	ntonite		23 Trimie		Trimie P	umped		
OR OSE IN	NTERNAL	USE	-		POD	10		WR-2	0 WELL RECOR	D & LO	G (Version 04/2	30/19)		

LOCATION

PAGE 2 OF 2

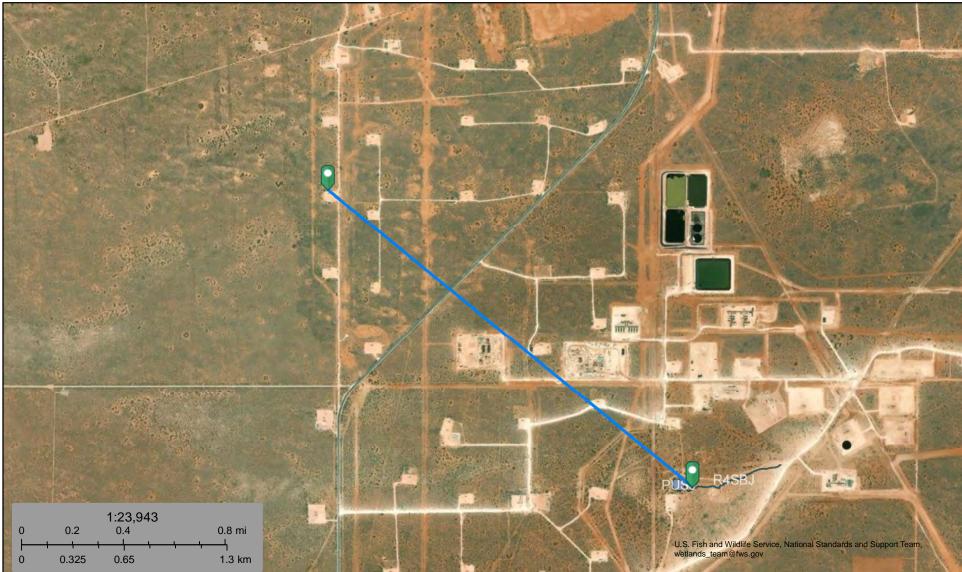
WELL TAG ID NO.

	DEPTH (f	eet bgl)				Continue Co	7.47.	ESTIMATED
	FROM	ТО	THICKNESS (feet)	INCLUD	DLOR AND TYPE OF MATERIAL DE WATER-BEARING CAVITIES ttach supplemental sheets to fully	S OR FRACTURE ZONES	WATER BEARING? (YES / NO)	YIELD FOR WATER- BEARING ZONES (gpm)
	0	6	6		Fine Silty Sand Red/B	Brown	Y VN	
	6	10	4		Caliche		Y VN	
	10	15	5		Fine Clayey sand bro	own	Y VN	
	15	25	10		Fine sandstone brow	wn	Y VN	
	25	60	35		Fine silty sandstone B	Brown	Y VN	
٠	60	70	10		Fat Clay Brown		Y VN	
VEL	70	85	15		Fine silty sandstone E	Brown	Y VN	
4. HYDROGEOLOGIC LOG OF WELL	85	105	20		Fine to Medium Sand	stone	Y VN	
90		1					Y N	
CL							Y N	
DO							Y N	
EOI							Y N	
200							Y N	
IXD							Y N	
4.1							Y N	
							Y N	
							Y N	
							Y N	
							Y N	
							Y N	
							Y N	
	METHOD U	SED TO E	STIMATE YIELD	OF WATER-	BEARING STRATA:	то	TAL ESTIMATED	
	PUMI	· 🗆	AIR LIFT	BAILER	OTHER - SPECIFY:	W	ELL YIELD (gpm):	0.00
NOIS	WELL TES				OF DATA COLLECTED DURING ABLE SHOWING DISCHARGE			
TEST; RIG SUPERVISI	MISCELLA	NEOUS IN	NFORMATION:			USE	DII NUU 24 202	11 PM 1 138
5. TEST; I	PRINT NAM Jason Camp	ME(S) OF I	DRILL RIG SUPER	VISOR(S) TH	HAT PROVIDED ONSITE SUPER	RVISION OF WELL CONSTR	UCTION OTHER TH	IAN LICENSEE:
SIGNATURE	RECORD O	F THE AB	OVE DESCRIBED	WELL, I ALS	BEST OF MY KNOWLEDGE A SO CERTIFY THAT THE WELL ERMIT HOLDER WITHIN 30 DA	TAG, IF REQUIRED, HAS BI	EEN INSTALLED AT	ND THAT THIS
IGN		840	1.		Shawn Cain		11/19/21	
6.8			TURE OF DRILLE	R / PRINT	SIGNEE NAME		DATE	
		2.0.11						
	R OSE INTER	NAL USE			Tank		ECORD & LOG (Ve	rsion 04/30/2019)
EII	F NO				POD NO	TRN NO		

LOCATION



Dolores AIL Federal #3 Watercourse 8,314ft



February 23, 2025

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

Lake

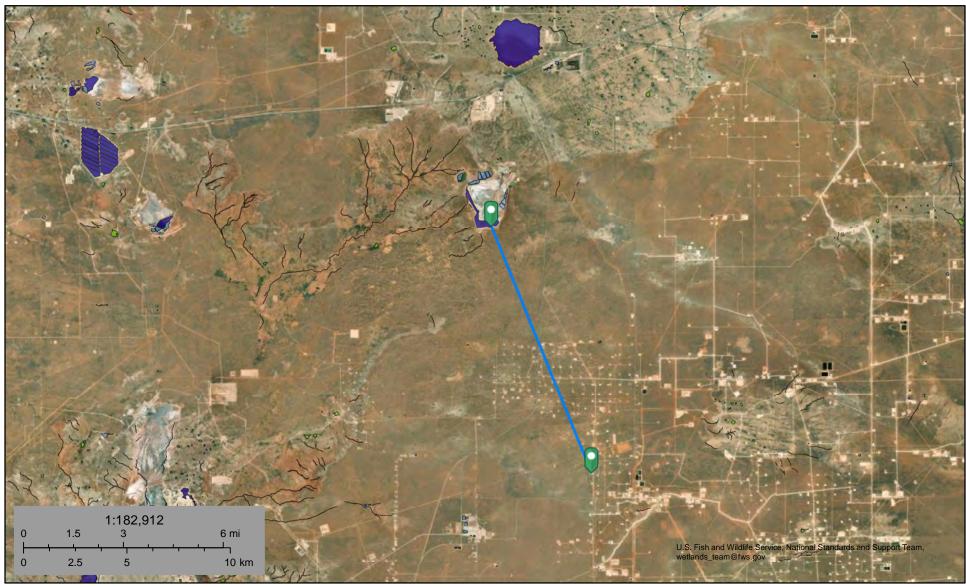
Other

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.



Dolores AIL Federal #3 Lake 3,5591ft



February 23, 2025

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

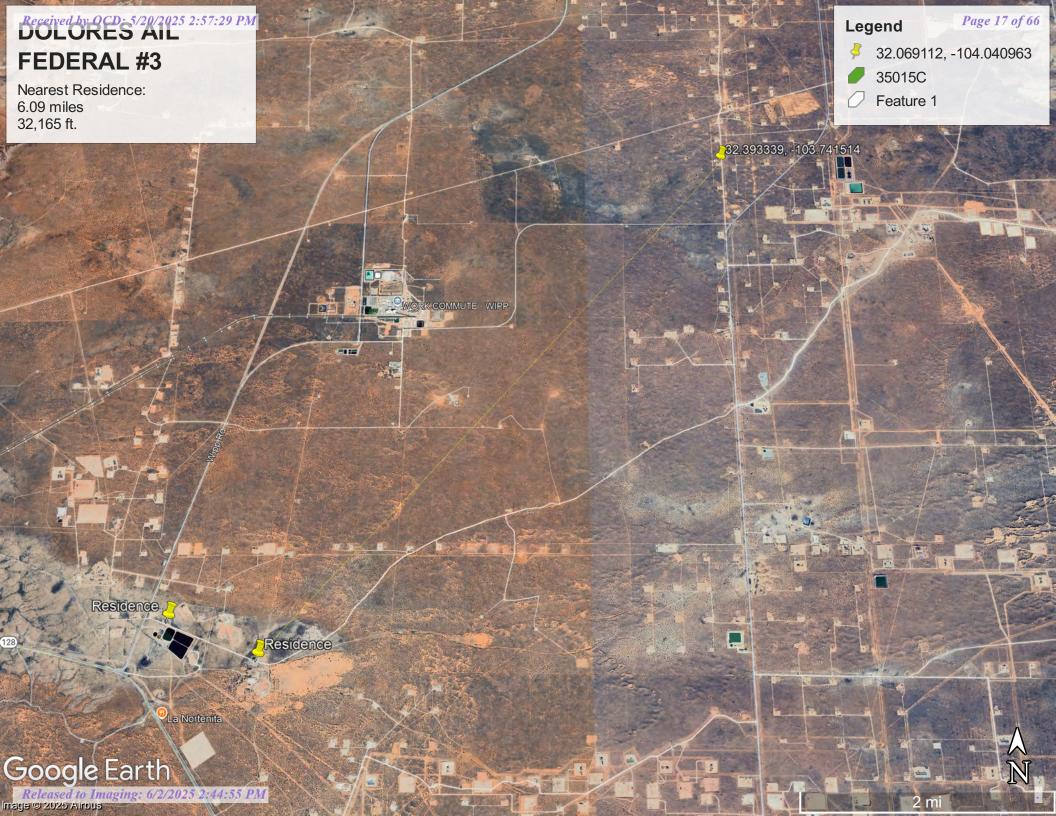
Freshwater Pond

Lake

Other

Riverine

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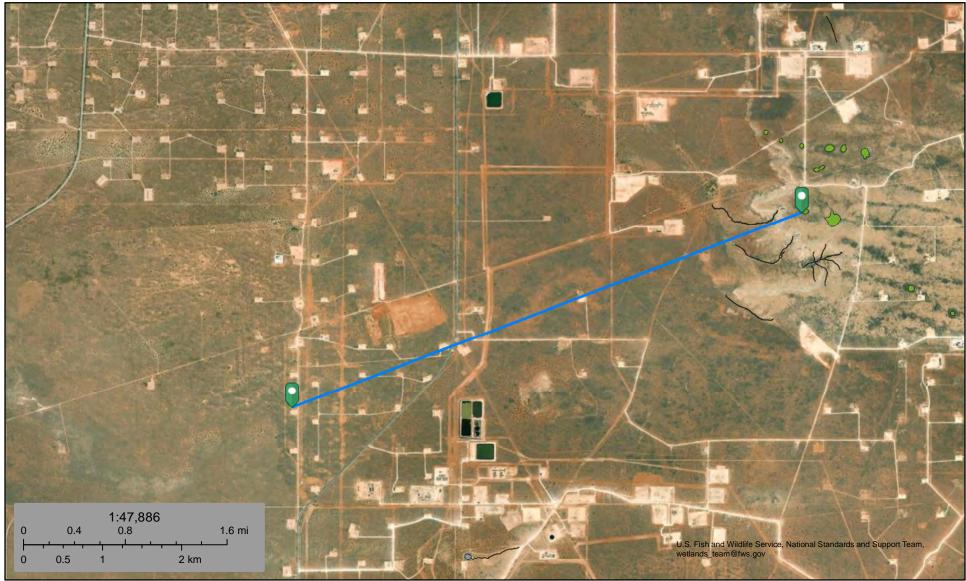


(acre ft per annum) (R=POD has been replaced and no longer serves this file, C=the file is closed)

WR File Nbr	Sub basin	Use	Diversion	Owner	County	POD Number	Well Tag	Code	Grant	Source
					LE	<u>C 04144 POD7</u>	NA			
					LE	<u>C 04144 POD33</u>	NA			
					LE	C 04144 POD34	NA			
					LE	<u>C 04144 POD6</u>	NA			
					LE	<u>C 04144 POD12</u>	NA			
<u>C 04740</u>	CUB	MON	0.000	OXY USA INC.	ED	C 04740 POD1	NA			
<u>C 02739</u>	С	STK	0.000	MILLS FAMILY PARTNERSHIP FLP	ED	<u>C 02739</u>				
<u>C 02939</u>	С	STK	0.000	J C AND FRANCES MILLS FAMILY PARTNERSHIP LTD	LE	<u>C 02939</u>				
<u>C 04837</u>	CUB	MON	0.000	BLAKE GROOMS	LE	<u>C 04837 POD1</u>	NA			
<u>C 02415</u>	CUB	MON	0.000	U.S. DEPT OF ENERGY	ED	<u>C 02415</u>				Artesia
<u>C 02756</u>	CUB	MON	0.000	U.S. DEPT. OF ENERGY - WIPP	ED	<u>C 02756</u>				
<u>C 03152</u>	CUB	MON	0.000	U.S. DEPT OF ENERGY	ED	<u>C 03152</u>				Shallov
<u>C 04695</u>	CUB	MON	0.000	OXY USA INC.	LE	C 04695 POD1	NA			
<u>C 04691</u>	CUB	MON	0.000	OXY USA INC	ED	<u>C 04691 POD1</u>	NA			
<u>C 04907</u>	CUB	MON	0.000	SELECT WATER SOLUTIONS, LLC	LA	<u>C 04907 POD1</u>	NA			
<u>C 02685</u>	CUB	MON	0.000	SANDIA NATIONAL LABORATORIES	ED	<u>C 02685</u>				
<u>C 03138</u>	CUB	MON	0.000	U.S. DEPT. OF ENERGY	ED	<u>C 03138</u>				
<u>C 02414</u>	CUB	MON	0.000	U.S. DEPT. OF ENERGY	ED	<u>C 02414</u>				Artesia
<u>C 04686</u>	CUB	MON	0.000	OXY USA INC	ED	<u>C 04686 POD1</u>	NA			
<u>C 02682</u>	CUB	MON	0.000	SANDIA NATIONAL LABORATORIES	ED	<u>C 02682</u>				
<u>C 04598</u>	CUB	EXP	0.000	LUCID ENERGY GROUP	LE	<u>C 04598 POD1</u>	NA			
			0.000	U.S. DEPARTMENT OF	ED	<u>C 02639</u>				



Dolores AIL Federal Wetland 19,149ft



February 23, 2025

Wetlands

Estuarine and Marine Deepwater

Estuarine and Marine Wetland

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Freshwater Pond

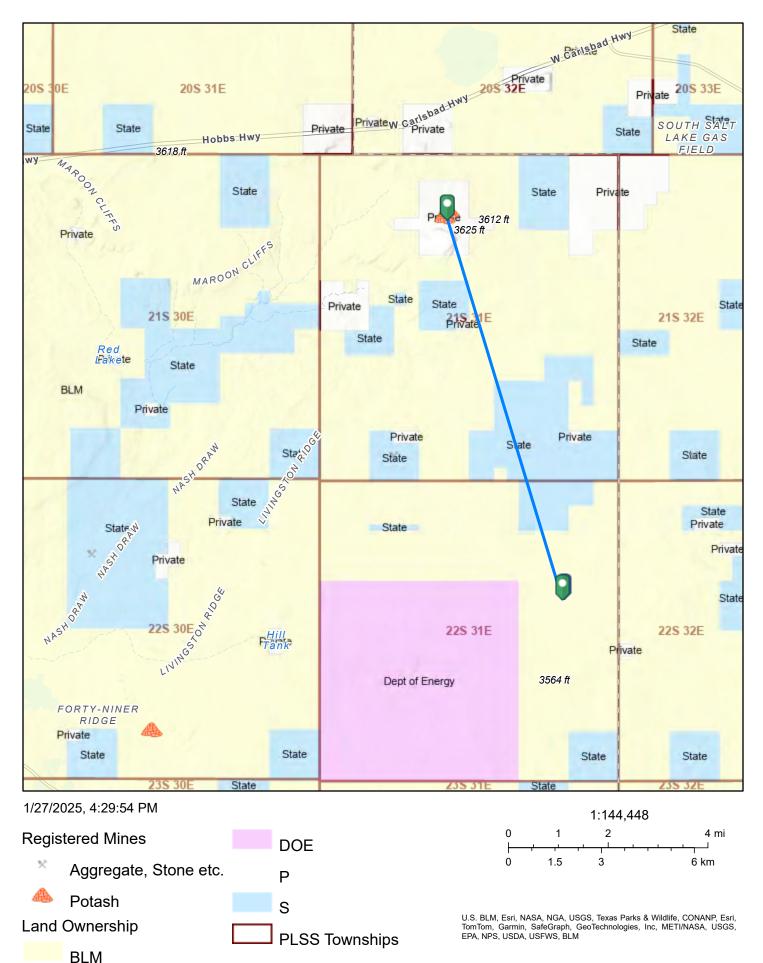
Lake

Riverine

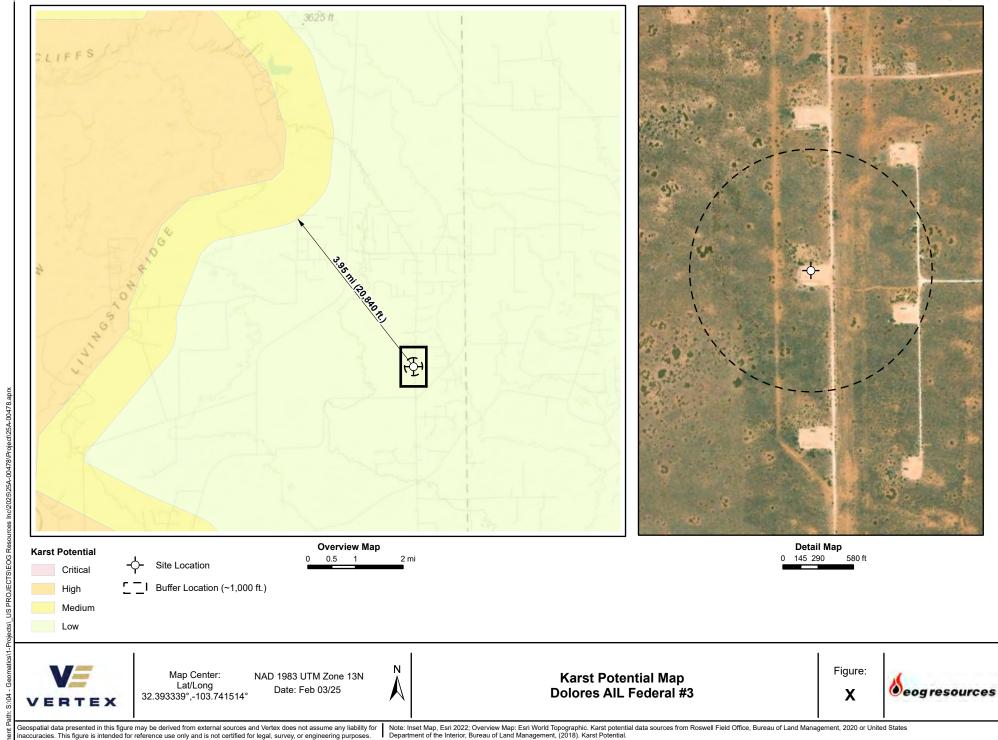


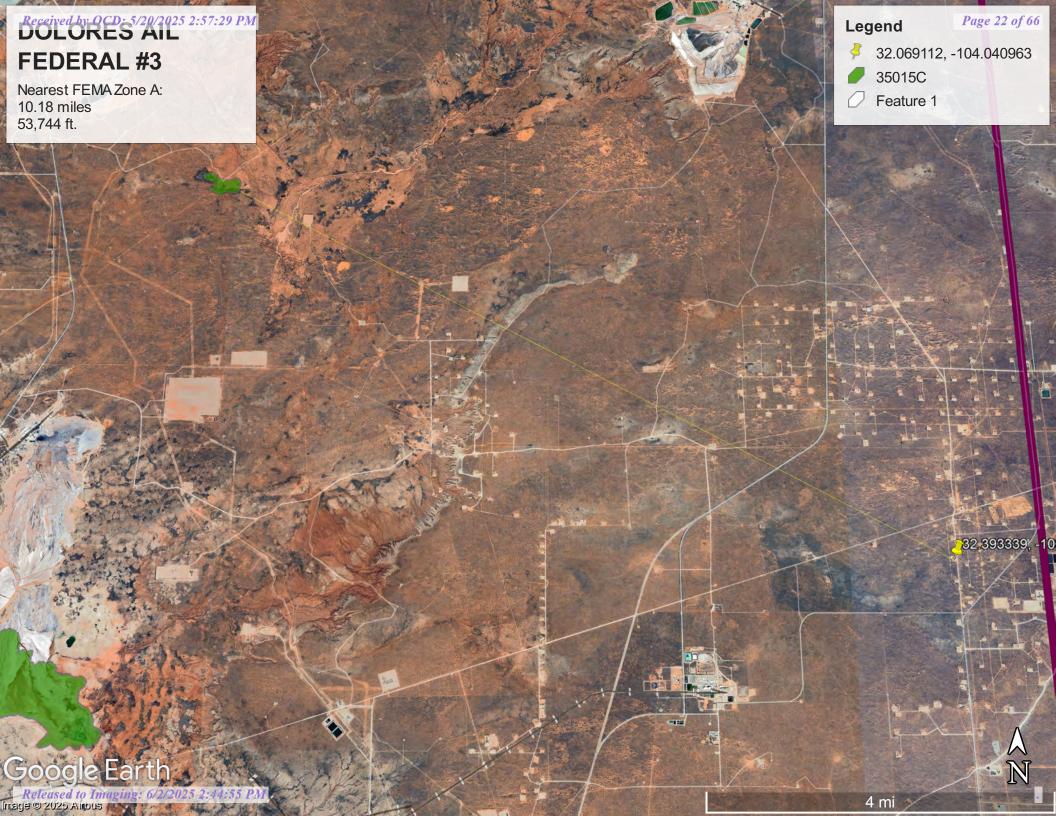
This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Dolores AIL Federal #3 Mine 41,886ft



VERSATILITY. EXPERTISE.



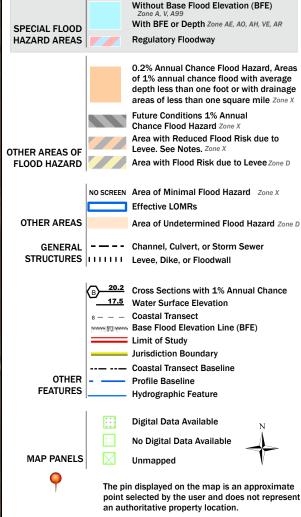


Received by OCD: 5/20/2025 2:57:29 PM National Flood Hazard Layer FIRMette





SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 1/27/2025 at 11:23 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.





VRCS

Natural Resources Conservation Service A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for Eddy Area, New Mexico



Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
KM	Kermit-Berino fine sands, 0 to 3 percent slopes	3.0	100.0%
Totals for Area of Interest		3.0	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Custom Soil Resource Report

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An association is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Custom Soil Resource Report

Eddy Area, New Mexico

KM—Kermit-Berino fine sands, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w4q Elevation: 3,100 to 4,200 feet

Mean annual precipitation: 10 to 14 inches Mean annual air temperature: 60 to 64 degrees F

Frost-free period: 190 to 230 days

Farmland classification: Not prime farmland

Map Unit Composition

Kermit and similar soils: 50 percent Berino and similar soils: 35 percent Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Kermit

Setting

Landform: Plains, alluvial fans

Landform position (three-dimensional): Talf, rise

Down-slope shape: Convex, linear

Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 7 inches: fine sand H2 - 7 to 60 inches: fine sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Runoff class: Negligible

Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Maximum salinity: Nonsaline (0.0 to 1.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Ecological site: R070BD005NM - Deep Sand

Hydric soil rating: No

Description of Berino

Setting

Landform: Plains, fan piedmonts

Landform position (three-dimensional): Riser

Custom Soil Resource Report

Down-slope shape: Convex Across-slope shape: Linear

Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 17 inches: fine sand

H2 - 17 to 50 inches: fine sandy loam H3 - 50 to 58 inches: loamy sand

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high

(0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None Frequency of ponding: None

Calcium carbonate, maximum content: 40 percent

Maximum salinity: Very slightly saline to slightly saline (2.0 to 4.0 mmhos/cm)

Sodium adsorption ratio, maximum: 1.0

Available water supply, 0 to 60 inches: Moderate (about 7.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: B

Ecological site: R070BD003NM - Loamy Sand

Hydric soil rating: No

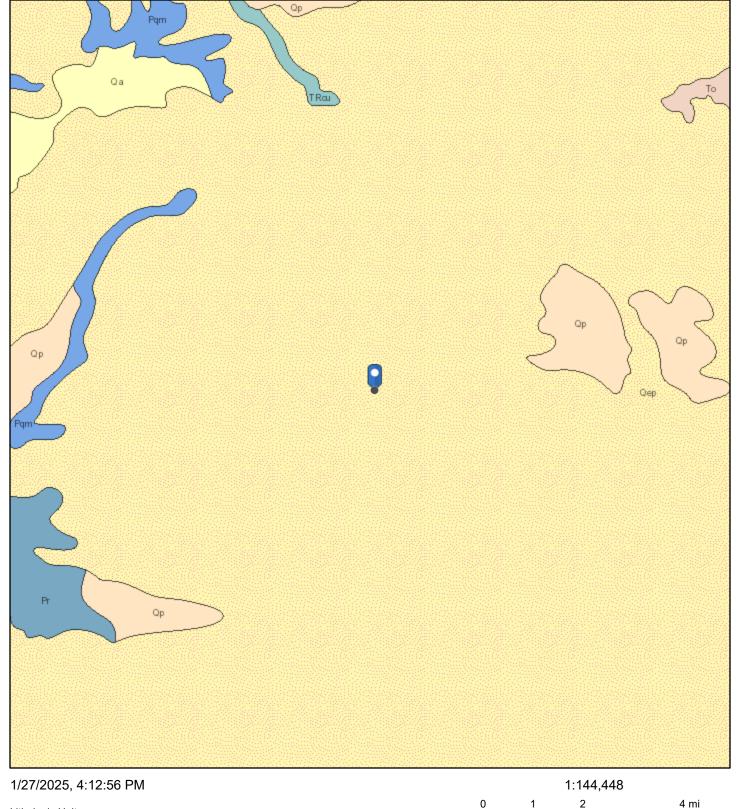
Minor Components

Active dune land

Percent of map unit: 15 percent

Hydric soil rating: No

Dolores AIL Federal #3 Geology

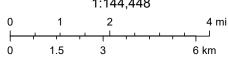


Lithologic Units

Playa—Alluvium and evaporite deposits (Holocene)

Water—Perenial standing water

Qa—Alluvium (Holocene to upper Pleistocene)



Esri, NASA, NGA, USGS, NMBGMR, USGS The National Map: National Boundaries Dataset, 3DEP Elevation Program, Geographic Names Information System, National Hydrography Dataset, National Land Cover Database, National Structures Dataset, and National Transportation Dataset; USGS Global Ecosystems; U.S. Census Bureau TIGER/Line data; USFS

ATTACHMENT 4



February 12, 2025

CHANCE DIXON

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: DOLORES AIL FEDERAL #3

Enclosed are the results of analyses for samples received by the laboratory on 02/06/25 13:18.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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:

VERTEX RESOURCE CHANCE DIXON 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 02/06/2025 Sampling Date: 02/04/2025

Reported: 02/12/2025 Sampling Type: Soil

Project Name: DOLORES AIL FEDERAL #3 Sampling Condition: Cool & Intact
Project Number: 25A - 00478 Sample Received By: Shalyn Rodriguez

Applyand By 14

Project Location: EOG

Sample ID: BH25 - 01 @ 0' (H250711-01)

DTEV 0021D

BTEX 8021B	mg	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.83	0.500	02/08/2025	ND	1.75	87.3	2.00	3.42	GC-NC1
Toluene*	19.9	0.500	02/08/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	22.7	0.500	02/08/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	61.9	1.50	02/08/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	106	3.00	02/08/2025	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	143	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	33600	16.0	02/07/2025	ND	448	112	400	3.64	
TPH 8015M	mg	/kg	Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	2160	100	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	9040	100	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	1650	100	02/07/2025	ND					
Surrogate: 1-Chlorooctane	231	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	195	% 49.1-14	'8						

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Celey D. Keens



Analytical Results For:

VERTEX RESOURCE CHANCE DIXON 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 02/06/2025 Reported: 02/12/2025

Project Name: **DOLORES AIL FEDERAL #3**

Project Number: 25A - 00478

Project Location: **EOG** Sampling Date: 02/04/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: BH25 - 01 @ 2' (H250711-02)

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	02/07/2025	ND	1.75	87.3	2.00	3.42	
Toluene*	<0.050	0.050	02/07/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	<0.050	0.050	02/07/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	02/07/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	<0.300	0.300	02/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.9 9	71.5-13	4						
Chloride, SM4500Cl-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	7400	16.0	02/07/2025	ND	448	112	400	3.64	
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	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	<10.0	10.0	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	<10.0	10.0	02/07/2025	ND					
Surrogate: 1-Chlorooctane	115 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	121 %	6 49.1-14	8						

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Celey D. Keine



02/04/2025

Analytical Results For:

VERTEX RESOURCE **CHANCE DIXON** 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 02/06/2025 Sampling Date:

Reported: 02/12/2025 Sampling Type: Soil

Project Name: **DOLORES AIL FEDERAL #3** Sampling Condition: Cool & Intact Sample Received By: Project Number: 25A - 00478 Shalyn Rodriguez

Project Location: **EOG**

Sample ID: BH25 - 01 @ 4' (H250711-03)

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	02/07/2025	ND	1.75	87.3	2.00	3.42	
Toluene*	0.056	0.050	02/07/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	<0.050	0.050	02/07/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	02/07/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	<0.300	0.300	02/07/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	02/07/2025	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	19.2	10.0	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	<10.0	10.0	02/07/2025	ND					
Surrogate: 1-Chlorooctane	116 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	124 %	6 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE CHANCE DIXON 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 02/06/2025 Reported: 02/12/2025

Project Name: **DOLORES AIL FEDERAL #3**

Project Number: 25A - 00478

Project Location: **EOG** Sampling Date: 02/04/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: BH25 - 02 @ 0' (H250711-04)

BTEX 8021B	mg	/kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	6.44	5.00	02/08/2025	ND	1.75	87.3	2.00	3.42	GC-NC1
Toluene*	47.4	5.00	02/08/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	54.8	5.00	02/08/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	153	15.0	02/08/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	261	30.0	02/08/2025	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	110	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8480	16.0	02/07/2025	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	6690	100	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	27700	100	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	4880	100	02/07/2025	ND					
Surrogate: 1-Chlorooctane	273	% 48.2-13	4						
Summanta 1 Chlana a stada ana	615	0/ 40.1.14	10						

Surrogate: 1-Chlorooctadecane 615 % 49.1-148

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Analytical Results For:

VERTEX RESOURCE CHANCE DIXON 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 02/06/2025 Sampling Date: 02/04/2025

Reported: 02/12/2025 Sampling Type: Soil

Project Name: DOLORES AIL FEDERAL #3 Sampling Condition: Cool & Intact
Project Number: 25A - 00478 Sample Received By: Shalyn Rodriguez

Analyzed By: JH

Project Location: EOG

Sample ID: BH25 - 02 @ 2' (H250711-05)

mg/kg

BTEX 8021B

DIEX GOZID	ıııg,	K9	Alluly20	u by. 311					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2025	ND	1.75	87.3	2.00	3.42	
Toluene*	<0.050	0.050	02/08/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	<0.050	0.050	02/08/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	02/08/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	<0.300	0.300	02/08/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 71.5-13-	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	02/07/2025	ND	448	112	400	3.64	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	<10.0	10.0	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	<10.0	10.0	02/07/2025	ND					
Surrogate: 1-Chlorooctane	110 %	26 48.2-13-	4						
Surrogate: 1-Chlorooctadecane	117 9	% 49.1-14	8						

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Celey D. Keine



Analytical Results For:

VERTEX RESOURCE **CHANCE DIXON** 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 02/06/2025 Sampling Date: 02/04/2025

Reported: 02/12/2025 Sampling Type: Soil

Project Name: **DOLORES AIL FEDERAL #3** Sampling Condition: Cool & Intact Sample Received By: Project Number: 25A - 00478 Shalyn Rodriguez

Project Location: **EOG**

Sample ID: BH25 - 02 @ 4' (H250711-06)

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	02/08/2025	ND	1.75	87.3	2.00	3.42	
Toluene*	0.075	0.050	02/08/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	<0.050	0.050	02/08/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	02/08/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	<0.300	0.300	02/08/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	94.4	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	02/07/2025	ND	448	112	400	3.64	
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	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	137	10.0	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	20.2	10.0	02/07/2025	ND					
Surrogate: 1-Chlorooctane	103 %	6 48.2-13	4						
Surrogate: 1-Chlorooctadecane	110 %	6 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE CHANCE DIXON 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 02/06/2025 Reported: 02/12/2025

Project Name: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Location: EOG

Sampling Date: 02/04/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH25 - 03 @ 0' (H250711-07)

BIEX 8021B	mg	/ кд	Analyzed By: JH						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	17.6	5.00	02/08/2025	ND	1.75	87.3	2.00	3.42	GC-NC1
Toluene*	94.3	5.00	02/08/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	81.2	5.00	02/08/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	220	15.0	02/08/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	413	30.0	02/08/2025	ND					GC-NC1

Surrogate: 4-Bromofluorobenzene (PID 111 % 71.5-134

Chloride, SM4500CI-B	mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	9400	16.0	02/07/2025	ND	448	112	400	3.64	
TPH 8015M	mg,	/kg	Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	5620	100	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	18500	100	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	3650	100	02/07/2025	ND					

Surrogate: 1-Chlorooctane 512 % 48.2-134
Surrogate: 1-Chlorooctadecane 396 % 49.1-148

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02/04/2025

Analytical Results For:

VERTEX RESOURCE CHANCE DIXON 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 02/06/2025 Sampling Date:

Reported: 02/12/2025 Sampling Type: Soil

Project Name: **DOLORES AIL FEDERAL #3** Sampling Condition: Cool & Intact Sample Received By: Project Number: 25A - 00478 Shalyn Rodriguez

Project Location: **EOG**

Sample ID: BH25 - 03 @ 2' (H250711-08)

BTEX 8021B	mg/	'kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	5.86	5.00	02/08/2025	ND	1.75	87.3	2.00	3.42	GC-NC1
Toluene*	55.7	5.00	02/08/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	52.9	5.00	02/08/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	157	15.0	02/08/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	271	30.0	02/08/2025	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4480	16.0	02/07/2025	ND	448	112	400	3.64	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	4710	10.0	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	13900	10.0	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	1390	10.0	02/07/2025	ND					
Surrogate: 1-Chlorooctane	462 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	295	% 49.1-14	8						

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S-04



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

Analytical Results For:

VERTEX RESOURCE CHANCE DIXON 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 02/06/2025 Reported: 02/12/2025

mg/kg

139 %

49.1-148

Project Name: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Location: EOG

Sampling Date: 02/04/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH25 - 03 @ 4' (H250711-09)

BTEX 8021B

	91			. , -					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/09/2025	ND	1.75	87.3	2.00	3.42	
Toluene*	0.259	0.050	02/09/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	0.492	0.050	02/09/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	1.70	0.150	02/09/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	2.45	0.300	02/09/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	138 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6130	16.0	02/07/2025	ND	448	112	400	3.64	
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*	85.9	10.0	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	1090	10.0	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	185	10.0	02/07/2025	ND					
Surrogate: 1-Chlorooctane	129 9								

Analyzed By: JH

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Surrogate: 1-Chlorooctadecane



Analytical Results For:

VERTEX RESOURCE CHANCE DIXON 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 02/06/2025 Reported: 02/12/2025

Project Name: **DOLORES AIL FEDERAL #3**

Project Number: 25A - 00478

Project Location: **EOG** Sampling Date: 02/04/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Shalyn Rodriguez

Sample ID: BH25 - 04 @ 0' (H250711-10)

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	02/08/2025	ND	1.75	87.3	2.00	3.42	
Toluene*	<0.050	0.050	02/08/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	<0.050	0.050	02/08/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	02/08/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	<0.300	0.300	02/08/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	93.0	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/07/2025	ND	448	112	400	3.64	
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	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	<10.0	10.0	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	<10.0	10.0	02/07/2025	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123 9	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE CHANCE DIXON 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 02/06/2025 Reported: 02/12/2025

02/12/2025 DOLORES AIL FEDERAL #3

Project Name: DOLORES AIL F Project Number: 25A - 00478

Project Location: EOG

Sampling Date: 02/04/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH25 - 04 @ 2' (H250711-11)

RTFY 8021R

BIEX 8021B	mg	/ Kg	Analyze	a By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/08/2025	ND	1.75	87.3	2.00	3.42	
Toluene*	<0.050	0.050	02/08/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	<0.050	0.050	02/08/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	02/08/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	<0.300	0.300	02/08/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.2	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/07/2025	ND	448	112	400	3.64	
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	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	<10.0	10.0	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	<10.0	10.0	02/07/2025	ND					
Surrogate: 1-Chlorooctane	110	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

Applyzod By: 14

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Analytical Results For:

VERTEX RESOURCE CHANCE DIXON 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 02/06/2025 Sampling Date: 02/04/2025

Reported: 02/12/2025 Sampling Type: Soil

Project Name: **DOLORES AIL FEDERAL #3** Sampling Condition: Cool & Intact Sample Received By: Project Number: 25A - 00478 Shalyn Rodriguez

Project Location: **EOG**

Sample ID: BH25 - 05 @ 0' (H250711-12)

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	02/08/2025	ND	1.75	87.3	2.00	3.42	
Toluene*	<0.050	0.050	02/08/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	<0.050	0.050	02/08/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	02/08/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	<0.300	0.300	02/08/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.2	% 71.5-13	4						
Chloride, SM4500CI-B	mg	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/07/2025	ND	448	112	400	3.64	
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	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	<10.0	10.0	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	<10.0	10.0	02/07/2025	ND					
Surrogate: 1-Chlorooctane	116	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

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02/04/2025

Analytical Results For:

VERTEX RESOURCE CHANCE DIXON 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 02/06/2025 Sampling Date:

Reported: 02/12/2025 Sampling Type: Soil
Project Name: DOLORES AIL FEDERAL #3 Sampling Condition: Cool

Project Name: DOLORES AIL FEDERAL #3 Sampling Condition: Cool & Intact
Project Number: 25A - 00478 Sample Received By: Shalyn Rodriguez

Project Location: EOG

Sample ID: BH25 - 05 @ 2' (H250711-13)

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	02/08/2025	ND	1.75	87.3	2.00	3.42	
Toluene*	<0.050	0.050	02/08/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	<0.050	0.050	02/08/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	02/08/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	<0.300	0.300	02/08/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.5	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/07/2025	ND	448	112	400	3.64	
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	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	<10.0	10.0	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	<10.0	10.0	02/07/2025	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	123	% 49.1-14	8						

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Analytical Results For:

VERTEX RESOURCE CHANCE DIXON 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 02/06/2025 Sampling Date: 02/04/2025

Reported: 02/12/2025 Sampling Type: Soil

Project Name: DOLORES AIL FEDERAL #3 Sampling Condition: Cool & Intact
Project Number: 25A - 00478 Sample Received By: Shalyn Rodriguez

Project Location: EOG

Sample ID: BH25 - 06 @ 0' (H250711-14)

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	02/08/2025	ND	1.75	87.3	2.00	3.42	
Toluene*	<0.050	0.050	02/08/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	<0.050	0.050	02/08/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	02/08/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	<0.300	0.300	02/08/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	91.7	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/07/2025	ND	448	112	400	3.64	
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	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	<10.0	10.0	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	<10.0	10.0	02/07/2025	ND					
Surrogate: 1-Chlorooctane	112	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	120	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE CHANCE DIXON 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 02/06/2025 Sampling Date: 02/04/2025

Reported: 02/12/2025 Sampling Type: Soil

Project Name: **DOLORES AIL FEDERAL #3** Sampling Condition: Cool & Intact Sample Received By: Project Number: 25A - 00478 Shalyn Rodriguez

Project Location: **EOG**

Sample ID: BH25 - 06 @ 2' (H250711-15)

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	02/08/2025	ND	1.75	87.3	2.00	3.42	
Toluene*	<0.050	0.050	02/08/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	<0.050	0.050	02/08/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	02/08/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	<0.300	0.300	02/08/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.4	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/07/2025	ND	448	112	400	3.64	
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	02/07/2025	ND	204	102	200	0.719	
DRO >C10-C28*	<10.0	10.0	02/07/2025	ND	204	102	200	0.00343	
EXT DRO >C28-C36	<10.0	10.0	02/07/2025	ND					
Surrogate: 1-Chlorooctane	114 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	122	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keine



Analytical Results For:

VERTEX RESOURCE CHANCE DIXON 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 02/06/2025 Reported: 02/12/2025

25A - 00478

Project Name: DOLORES AIL FEDERAL #3 Sampling Condition:

Project Location: EOG

Project Number:

Sampling Date: 02/04/2025 Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Shalyn Rodriguez

Sample ID: BH25 - 07 @ 0' (H250711-16)

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	02/08/2025	ND	1.75	87.3	2.00	3.42	
Toluene*	<0.050	0.050	02/08/2025	ND	1.83	91.7	2.00	2.92	
Ethylbenzene*	<0.050	0.050	02/08/2025	ND	1.78	89.2	2.00	3.27	
Total Xylenes*	<0.150	0.150	02/08/2025	ND	5.22	87.1	6.00	3.30	
Total BTEX	<0.300	0.300	02/08/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	92.5	% 71.5-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/07/2025	ND	448	112	400	3.64	
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	02/07/2025	ND	223	112	200	0.676	
DRO >C10-C28*	<10.0	10.0	02/07/2025	ND	219	110	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	02/07/2025	ND					
Surrogate: 1-Chlorooctane	85.9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	87.4	% 49.1-14	8						

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Celey D. Keene



Analytical Results For:

VERTEX RESOURCE CHANCE DIXON 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 02/06/2025 Sampling Date: 02/04/2025

Reported: 02/12/2025 Sampling Type: Soil

Project Name: DOLORES AIL FEDERAL #3 Sampling Condition: Cool & Intact
Project Number: 25A - 00478 Sample Received By: Shalyn Rodriguez

Project Location: EOG

Sample ID: BH25 - 07 @ 2' (H250711-17)

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	02/08/2025	ND	2.00	100	2.00	6.32	
Toluene*	<0.050	0.050	02/08/2025	ND	2.09	104	2.00	6.67	
Ethylbenzene*	<0.050	0.050	02/08/2025	ND	1.99	99.6	2.00	6.15	
Total Xylenes*	<0.150	0.150	02/08/2025	ND	5.87	97.8	6.00	6.37	
Total BTEX	<0.300	0.300	02/08/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	90.9	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	ed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/07/2025	ND	416	104	400	3.77	
TPH 8015M	mg	/kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	<10.0	10.0	02/07/2025	ND	223	112	200	0.676	
DRO >C10-C28*	<10.0	10.0	02/07/2025	ND	219	110	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	02/07/2025	ND					
Surrogate: 1-Chlorooctane	84.8	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	85.5	% 49.1-14	8						

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene



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

Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
BS-3	Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.
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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Celeg D. Kreene



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name: Vertex Chill to EOG Resources inc	BILL TO	ANALYSIS REQUEST
Project Manager: Chance Vivon	P.O. #:	THE TOTAL PROPERTY OF
Address: 3101 Boyd Dr City: Carlsbad State: NM zip: 88220	Company: EOG Resources	
Phone #: 575 - 988 - 1472 Fax #:	Attn: Chase Settle	
Phone #: 575 - 988 - 1472 Fax #: Project #: 25A - 00478 Project Owner:	City:	1
Project Name: Dolores AIL Federal #3	State: Zip:	
Project Location:	Phone #:	
Sampler Name: Riley Asnold FOR LAB USE ONLY MATRIX	Fax #: PRESERV. SAMPLING	802/ 80/5
G)RAB OR (C)OMP. **CONTAINERS** **SROUNDWATER** **SOIL** **SOIL** **DIL** **D	ACID/BASE: OTHER: OTHER: OTHER:	BTEX TPH Chlos
	X 02.0425 10:00	
3 BH25-01 D 2' 3 BH25-01 D 4' 4 BH25-02 D 0' 5 BH25-02 D 2' 6 BH25-02 D 4'	10:07	
5 BH25-01 W 4'	10:17	
SH25-02 D 2'	10:25	
6 RH25-02 D 4'	10:32	
7 BH25-03 DO'	11:00	
8 8H25-03 D 2'	11:09	
9 BH 25-03 D 4'	11:22	
10 BH25-04 @ 0'	11:30	The Control of the Co

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Relinquished By:	Date:	Received By: Shadkigner	Verbal Result: Yes No Add'l Phone #: All Results are emailed. Please provide Email address: Chixon DVestexsesousce.com
Relinquished By:	Date:	Received By:	REMARKS:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp. °C Corrected Temp. °C	Cool Intact (Initials)	Turnaround Time: Standard Bacteria (only) Sample Condition Cool Intact Observed Temp. °C Thermometer ID #140 Correction Factor 9.6°C Standard Push Cool Intact Observed Temp. °C Yes Yes No No Corrected Temp. °C

Page 21 of 21

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Nam	E Vertex Chill to Eo	& Resources inc)	BILL TO	ANALYS	S REQUEST
Project manage	Chance Vivon		P.O. #:		1 1 1 1
Address: 31	ol Boyd Dr		Company: EOG Resources	1	
city: Last	ol Boyd Dr Sbad State:NM	1 zip: 88220	Attn: Chase Settle	1	
Phone #: 57	75 - 988 - 1472 Fax #: A - 00478 Project Own		Address:		
Project #: 25	A-00478 Project Own	er:	City:		
Project Name:	Dolores AIL Federal	#3	State: Zip:		
Project Locatio	n:		Phone #:		
Sampler Name:	Riley Asnold		Fax #:	8021 8015 de	
FOR LAB USE ONLY	/ Stray	MATRIX	PRESERV. / SAMPLING	80%	
Lab I.D. H250711 11 12 13 14 15 14	Sample I.D. BH25-04 2 2' BH25-05 2 0' BH25-06 2 0' BH25-06 2 0' BH25-06 2' BH25-07 2 2' BH25-07 2 2'	# CONTAINERS # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	OZ.0425 II:45 V CE/COOL V	ATEX TPH Chlori	

analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable affiliation is successful as a consequent of the successful and the success

Relinquished By:	Date: Receiv	= n= duin-	Verbal Result: Yes No Add'l Phone #: All Results are emailed. Please provide Email address: Cdixon avestexsesousce.com REMARKS:
Delivered By: (Circle One)	Observed Temp. °C 4	Sample Condition CHECKED BY:	Turnaround Time: Standard Bacteria (only) Sample Condition
Sampler - UPS - Bus - Other:	Corrected Temp. °C 7	Cool Intact (Initials)	Thermometer ID #140 Correction Factor -0.5°C No No No Corrected Temp. °C



February 17, 2025

CHANCE DIXON

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: DOLORES AIL FEDERAL #3

Enclosed are the results of analyses for samples received by the laboratory on 02/13/25 14:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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)

Celey D. Keene

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



Analytical Results For:

VERTEX RESOURCE CHANCE DIXON 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 02/13/2025 Reported: 02/17/2025

Project Name: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM

Sampling Date: 02/05/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BS 25 - 03 6' (H250887-01)

BTEX 8021B	mg,	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/14/2025	ND	1.86	93.1	2.00	0.779	
Toluene*	<0.050	0.050	02/14/2025	ND	1.93	96.4	2.00	1.31	GC-NC
Ethylbenzene*	0.351	0.050	02/14/2025	ND	1.94	96.9	2.00	1.58	
Total Xylenes*	1.90	0.150	02/14/2025	ND	5.94	99.0	6.00	2.00	
Total BTEX	2.25	0.300	02/14/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	142	% 71.5-13	4						
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5460	16.0	02/14/2025	ND	416	104	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*	162	10.0	02/14/2025	ND	195	97.6	200	3.05	
DRO >C10-C28*	1000	10.0	02/14/2025	ND	184	92.1	200	3.76	
EXT DRO >C28-C36	157	10.0	02/14/2025	ND					
Surrogate: 1-Chlorooctane	104	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	104	% 49.1-14	8						

Cardinal Laboratories *=Accredited Analyte

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Celey D. Keene



Notes and Definitions

S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.

GC-NC 8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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Celeg D. Freene

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Page 4 of

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 202 2226 EAV (575) 202 2476

Observed Temp. °C

Corrected Temp. °C

Company Name	12 8.1 F.E. X / C. C. Km									BI	LL TO						ANA	LYSI	S RE	QUE	ST		
Project Manage	er: Chance Dixon							P.	0. #:									T	T	T	Ť		
Address:	File							Co	mpa	ny: ¿	E04		1					1					
City:	State	e:	Zip:								se se	++10.	1					1					
Phone #:	Fax #								dres		35 35	00/0	1										
Project #: 25	A-00478 Project	ct Owner:						Cit	tv:				1 1				1						
	DOIONES AIL F			# 1	>			Sta	ate:		Zip:		1					1					
Project Location	n: C9r15690, NM		-					Ph	one i	#:													
Sampler Name:	Biley Armold								x #:				802	8015			1	1	1				
FOR LAB USE ONLY				T		MATR	IX		PRES	SERV.	SAM	PLING	0, 1	0									
Lab I.D.	Sample I.D.		(G)RAB OR (C)OMP	# CONTAINERS	WASTEWATER	()	SLUDGE	OTHER:	ACID/BASE:	OTHER:	DATE	TIME	BTEX	2 Har	Cl								
	82 22-03 6'		G	1			-				2/5	4:00		V	V								
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EASE NOTE: Liability and	d Darnages. Cardinal's liability and client's exclusive	remedy for any	Jaim s	arissing w	hether	hased in o	ontract	or tort	shall be	limited t	o the amount on	d by the eliest for	100										
rvice. In no event shall Car	ig those for negligence and any other cause whatson ordinal be liable for incidental or consequental damag	iver shall be dee des, including wi	med w	vaived u	nless m	ade in wri	ting and	receiv	red by Ca	ardinal w	ithin 30 days after	er completion of the	ne applicable	е									
liates or successors arising elinquished By	g out of or related to the performance of services he	reunder by Card	linal, re	egardles eive	s of wh	ether such	claim i	s base	d upon a	any of the	above stated re	asons or otherwis	se.	□ Yes		Mail	Addit	Dh a a a d	4-			4	
CE	Time:	25	_	5110	le	1118	140	7	6	1	Kin	All Results					Add'l I e Email						
elinquished By	Date:		Reci	eived	By:			0	a	19	Jie	REMARKS	S:					-					-
	Time																						

Turnaround Time:

Thermometer ID #140 Correction Factor -0.6°C

Standard

Bacteria (only) Sample Condition

Observed Temp. °C

Corrected Temp. °C

Cool Intact

CHECKED BY:

(Initials)

Sample Condition

Yes Yes

☐ No ☐ No

Cool Intact



February 20, 2025

CHANCE DIXON

VERTEX RESOURCE

3101 BOYD DRIVE

CARLSBAD, NM 88220

RE: DOLORES AIL FEDERAL #3

Enclosed are the results of analyses for samples received by the laboratory on 02/18/25 13:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. 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:

VERTEX RESOURCE CHANCE DIXON 3101 BOYD DRIVE CARLSBAD NM, 88220 Fax To: NA

Received: 02/18/2025 Reported: 02/20/2025

Project Name: DOLORES AIL FEDERAL #3

Project Number: 25A - 00478

Project Location: EOG - CARLSBAD, NM

Sampling Date: 02/11/2025

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Tamara Oldaker

Sample ID: BH25 - 03 @ 8' (H250955-01)

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	02/19/2025	ND	2.00	99.8	2.00	13.3	
Toluene*	<0.050	0.050	02/19/2025	ND	2.27	113	2.00	14.5	
Ethylbenzene*	<0.050	0.050	02/19/2025	ND	2.52	126	2.00	16.5	
Total Xylenes*	<0.150	0.150	02/19/2025	ND	7.72	129	6.00	18.0	
Total BTEX	<0.300	0.300	02/19/2025	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 71.5-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	14400	16.0	02/19/2025	ND	448	112	400	3.64	
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	02/19/2025	ND	191	95.4	200	2.18	
DRO >C10-C28*	60.0	10.0	02/19/2025	ND	179	89.5	200	4.39	
EXT DRO >C28-C36	<10.0	10.0	02/19/2025	ND					
Surrogate: 1-Chlorooctane	94.6	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	95.2	% 49.1-14	8						

A I J D. ... 711

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Celey & Keene



Notes and Definitions

QR-04 The RPD for the BS/BSD was outside of historical limits.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

BS-3 Blank spike recovery outside of lab established statistical limits, but still within method limits. Data is not adversely affected.

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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Celey D. Keene

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Page 4 of 4

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

O Namo	(575) 393-2320 TAX (070) 666 1			BILL	TO				ANALYSI	S REQU	ESI		\neg
Company Name:			P.	.O. #:									
Project Manager	Chance Dixon		C	omnany: =/	-								
Address: On	File			ompany: EC									
City:	State:	Zip:		ttn: CHASE	266616								
Phone #:	Fax #:		Ad	ddress:						1 1			
	H-00478 Project Own	er:	Ci	ity:									
Droject Name:	Dolores ATL FED	ura/# ?	St	tate: Zip									
Project Name.	Dolores ALCTO	. 4, 9	P	hone #:		N	W						
	Carishad		F	ax #:		802	8015						
	Chance Dixon	MATE	RIX	PRESERV.	SAMPLING	M	×						
FOR LAB USE ONLY		d a					-			1 1			
		S)ON TER	11			1	7						
Labin	Sample I.D.	GRAB OR (C)ON # CONTAINERS GROUNDWATER WASTEWATER		ACID/BASE: CEX COOL OTHER:		12	2						
Lab I.D.	Sample 1.5.	NTA UNIC TEV	SLUDGE	ACID/BA CCE CO OTHER		18	N	3					
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	and Damages. Cardinal's liability and client's exclusive remedy	for any claim arising whether based	in contract o	or tort, shall be limited to th	e amount paid by the client f	for the							
							bie						
service. In no event shall	Cardinal be liable for incidental of consequental damages, incl	by Cardinal, regardless of whether	such claim is	s based upon any of the ab	Verbal P	ocult-	□ Yes	s □ No	Add'l Pho				
Relinguished E	By: Date:	Received By:		11/1	/ All Resul	lts are er	nailed.	Please pr	ovide Email ad	dress:			

affiliates or successors arising out of or related to the perior Relinquished By:	Date: 8-25	Received By:	All Results are emailed. Please provide Email address:
Relinquished By:		Received By:	REMARKS:
	Time:		Turnaround Time: Standard Bacteria (only) Sample Condition
Delivered By: (Circle One)	Observed Temp. °C	Sample Condition	Rush Cool Intact Observed Temp. C
	Corrected Temp. °C	L' L' COOL IIILEGE	Thermometer ID #140 Correction Factor -0.6°C DQ4 See No No Corrected Temp. °C

Sante Fe Main Office Phone: (505) 476-3441 General Information

Phone: (505) 629-6116
Online Phone Directory
https://www.emnrd.nm.gov/ocd/contact-us

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

QUESTIONS

Action 465388

QUESTIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
5509 Champions Drive	Action Number:
Midland, TX 79706	465388
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nAPP2513446761
Incident Name	NAPP2513446761 DOLORES AIL FEDERAL #3 @ 30-015-26722
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-015-26722] DOLORES AIL FEDERAL #003

Location of Release Source	
Please answer all the questions in this group.	
Site Name	Dolores AIL Federal #3
Date Release Discovered	01/23/2025
Surface Owner	Federal

Incident 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 the volumes provided should be attached to the follow-up C-141 submission.	
Crude Oil Released (bbls) Details	Cause: Corrosion Pipeline (Any) Crude Oil Released: 5 BBL Recovered: 1 BBL Lost: 4 BBL.
Produced Water Released (bbls) Details	Cause: Corrosion Pipeline (Any) Produced Water Released: 20 BBL Recovered: 0 BBL Lost: 20 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)	Initial release reported as 4 bbls, upon delineation and investigation of the impact area, it was further determined to be a larger release. Calculated to be ~5 bbls crude oil and ~20 bbls produced water.

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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 2

Action 465388

QUESTI	ONS (continued)	
Operator: EOG RESOURCES INC 5509 Champions Drive Midland, TX 79706	OGRID:	
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.	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 s	afety 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.	
	ation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative led or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of valuation in the follow-up C-141 submission.	
to report and/or file certain release notifications and perform corrective actions for releathe OCD does not relieve the operator of liability should their operations have failed to a	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 to 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: Chase Settle Title: Safety & Environmental Rep II Email: chase_settle@eogresources.com Date: 05/20/2025	

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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 465388

QUESTIONS (continued)

Operator:	OGRID:
EOG RESOURCES INC	7377
5509 Champions Drive	Action Number:
Midland, TX 79706	465388
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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 100 and 500 (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	Between 1 and 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	Yes

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 contamination as	sociated 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	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)		
Chloride (EPA 300.0 or SM4500 Cl B)	33600	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	39270	
GRO+DRO (EPA SW-846 Method 8015M)	34390	
BTEX (EPA SW-846 Method 8021B or 8260B)	413	
Benzene (EPA SW-846 Method 8021B or 8260B)	6.4	
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	06/20/2025	
On what date will (or did) the final sampling or liner inspection occur	06/20/2025	
On what date will (or was) the remediation complete(d)	07/01/2025	
What is the estimated surface area (in square feet) that will be reclaimed	3025	
What is the estimated volume (in cubic yards) that will be reclaimed	600	
What is the estimated surface area (in square feet) that will be remediated	3025	
What is the estimated volume (in cubic yards) that will be remediated	600	
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.

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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 4

Action 465388

QUESTIONS (continued)

Operator:	OGRID:
EOG RESOURCES INC	7377
5509 Champions Drive	Action Number:
Midland, TX 79706	465388
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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.)	Yes
Which OCD approved facility will be used for off-site disposal	LEA LAND LANDFILL [fEEM0112342028]
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)	No
(In Situ) Soil Vapor Extraction	No
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	No
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	No
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	No
Ground Water Abatement pursuant to 19.15.30 NMAC	No
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, 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: Chase Settle
Title: Safety & Environmental Rep II
Email: chase_settle@eogresources.com
Date: 05/20/2025

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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QUESTIONS, Page 5

Action 465388

QUESTIONS (continued)

Operator:	OGRID:
EOG RESOURCES INC	7377
5509 Champions Drive	Action Number:
Midland, TX 79706	465388
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

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 465388

QUESTIONS (continued)

Operator: EOG RESOURCES INC	OGRID: 7377			
5509 Champions Drive	Action Number:			
Midland, TX 79706	465388			
	Action Type:			
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)			
QUESTIONS				
Sampling Event Information				
Last sampling notification (C-141N) recorded	{Unavailable.}			
Remediation Closure Request				
Only answer the questions in this group if seeking remediation closure for this release because all r	emediation steps have been completed.			
Requesting a remediation closure approval with this submission	No			

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CONDITIONS

Action 465388

CONDITIONS

Operator:	OGRID:
EOG RESOURCES INC	7377
5509 Champions Drive	Action Number:
Midland, TX 79706	465388
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
nvelez	Remediation plan and variance toward depth to water estimation are approved. Prior to backfilling the open excavation per 19.15.29.12D (2) NMAC, EOG must collect a minimum of one (1) 5pcs from the media being used as backfill to verify that it meets non-waste containing, uncontaminated, earthen material with chloride concentrations less than 600 mg/kg as analyzed by EPA Method 300.0, or other test methods approved by the division. This is especially important for the material being used within the top four (4) feet from the ground surface. EOG has 90-days (September 2, 2025) to submit to OCD its appropriate or final remediation closure report.	6/2/2025