

# SITE CHARACTERIZATION AND REMEDIATION PLAN

Prepared For:

Devon Energy Production Company, LP
5315 Buena Vista Dr.
Carlsbad, NM 88220

Site Information:

## Tomcat 21 Federal 1 Incident Number NRM2003860041

Unit F, Section 21, Township 23 South, Range 32 East

Lea County, New Mexico

(32.291623°, -103.682619°)

Carlsbad ● Houston ● Midland ● San Antonio ● Lubbock ● Hobbs ● Lafayette

#### **SYNOPSIS**

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Devon Energy Production Company, LP (Devon), presents the following Site Characterization and Remediation Plan (SCRP) detailing delineation soil sampling activities, associated with an inadvertent release of produced water at the Tomcat 21 Federal 1 (Site). Based on laboratory analytical results, Devon proposes this SCRP, which summarizes initial response efforts, sampling activities and details remediation objectives to rectify environmental impacts at the Site.

#### SITE BACKGROUND

On January 24, 2020, a poly flowline failure resulted in approximately 47.875 barrels (bbls) of produced water to be released onto an adjacent pasture easement west of the Site well pad. A vacuum truck was immediately dispatched and recovered approximately 40 bbls of fluid. Devon immediately notified the New Mexico Oil and Conservation Division (NMOCD) via email on January 25, 2020, and reported the release on a Corrective Action Form C-141 (Form C-141), which was received by the NMOCD on February 5, 2020, and was subsequently assigned Incident Number NRM2003860041.

A Characterization Variance Request (CVR) proposing to remediate to Table I depth to groundwater (DTW) standards of 51-100 feet bgs, based on recent, regional DTW data, was submitted by Etech on October 1, 2024, and subsequently approved the same day.

#### SITE CHARACTERIZATION AND PROPOSED CLOSURE CRITERIA

As previously described on the CVR, the Site was characterized according to Table I in 19.15.29.12 of the New Mexico Administrative Code (NMAC) considering depth to groundwater and the proximity to:

- Any continuously flowing watercourse or any other significant watercourse;
- Any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- An occupied permanent residence, school, hospital, institution or church;
- A spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Any freshwater well or spring;
- Incorporated municipal boundaries or a defined municipal fresh water well field covered under a municipal ordinance;
- A wetland;
- A subsurface mine;
- An unstable area (i.e. high karst potential); and
- A 100-year floodplain.

All potential receptors are not within the established buffers in NMAC 19.15.29.12. Receptor details and sources used to determine the site characterization are included in **Figure 1A**, **Figure 1B**, and **Figure 1C** in **Appendix A**. All referenced boring and/or well records are included in **Appendix B**.

Based on the results from the desktop review detailed in the CVR, the following closure criteria was applied and approved by the NMOCD:

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria <sup>†</sup>
Chloride	Environmental Protection Agency (EPA) 300.0	10,000 milligram per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	EPA 8015 M/D	2,500 mg/kg
TPH-Gasoline Range Organics (GRO)+ TPH-Deisel Range Organics (DRO)	EPA 8015 M/D	1,000 mg/kg
Benzene	EPA 8021B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8260B	50 mg/kg

<sup>&</sup>lt;sup>†</sup>The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13

#### **DELINEATION SOIL SAMPLING ACTIVITIES**

On July 30, 2024, and July 31, 2024, Etech evaluated the Site based on information provided on the Form C-141 and mapped the release extent, hereafter referred to as the Area of Concern (AOC), estimated by apparent vegetative stress via handheld Global Positioning System (GPS). Eight delineation locations (BH01 through BH08) were advanced via hand auger within and around the AOC to assess the presence or absence of residual soil impacts associated with the AOC. Delineation activities were driven in accordance with Site Closure Criteria by field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips or until refusal, whichever was encountered first. A minimum of two soil samples were collected from each delineation soil sampling location, representing the highest observed field screening concentrations and the greatest depth. Field screening results and soil descriptions are included on soil sampling logs shown in **Appendix C**. The delineation soil sample locations are shown in **Figure 2** in **Appendix A**. Photographic documentation of delineation activities is included in **Appendix D**.

Delineation soil samples were placed directly into lab provided pre-cleaned glass jars, packaged with minimal void space, labeled, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures, to Envirotech, Inc. Laboratories (Envirotech) in Farmington, New Mexico, for analysis of COCs.

#### LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for soil samples assisting with lateral delineation (BH03 to BH07) were compliant with the Site Closure Criteria and/or reclamation standard.

Laboratory analytical results for all soil samples indicated BTEX and TPH concentrations were compliant with the Site Closure Criteria and/or reclamation standard.

Laboratory analytical results for the remaining samples collected within the AOC (BH01, BH02, and BH08) indicated that chloride concentrations exceeded the NMOCD reclamation standard requirement of 600 milligram per kilogram (mg/kg) within the top four feet. Residual impacts, defined by the reclamation standard, are characterized by chloride concentrations ranging from 797 mg/kg to 2,020 mg/kg.

Laboratory analytical results are summarized in Table 1 included in **Appendix E**. The executed chain-of-custody form and laboratory reports are provided in **Appendix F**.

Site Characterization Remediation Plan Tomcat 21 Federal 1 Incident Number NRM2003860041

#### PROPOSED REMEDIATION WORK PLAN

Based on the delineation soil sampling results, the following conclusions regarding the inadvertent release are presented:

- Laboratory analytical results indicated chloride concentrations exceeding the reclamation standard appear to exist in the proximity of sample locations BH01 and BH02, specifically in the top four feet bgs.
- Based on laboratory analytical results of delineation soil samples surrounding the AOC, residual
  impacts appear to be sufficiently delineated laterally and horizontally according to Site Closure
  Criteria and/or reclamation standard.

Based on the conclusions presented above, Devon proposes the following remedial corrective actions:

- Impacted soil will be excavated within the top four feet of areas in the pasture containing COCs exceeding the reclamation standard. The excavation will be advanced vertically and laterally until the applicable Site Closure Criteria is met. Based on current delineation soil sampling results, approximately 530 square feet and 79 CY are anticipated to be excavated within BH01 and BH02. The proposed excavation extent can be referenced on Figure 3 in Appendix A.
- Following removal of soil impacts, 5-point confirmation soil samples will be collected from the excavation and analyzed for referenced COCs by an accredited laboratory, as previously described.
- Access for remediation or disturbance that occurs offsite requires BLM approval. Devon will
  prepare and submit documentation for proposed work areas before initiating corrective actions
  which includes but it not limited to.
  - Cultural and/or Biological Surveys
- Once remediation is complete and receipt of soil confirmation results indicates soil concentrations
  exceeding the reclamation standard has been removed, Devon will backfill the excavation with
  clean, locally sourced soil and restored to "as close to its original state as possible" and re-seed
  the total disturbed area with the appropriate BLM seed mix according to BLM guidelines.

#### PROPOSED SCHEDULE

Upon the notice of NMOCD approval of this SCRP, Devon will begin the proposed remediation activities outlined above and provide a report detailing completed remediation activities for Incident Number NRM2003860041.

If you have any questions or comments, please do not hesitate to contact Erick Hererra at (432) 305-6416 or <a href="mailto:erick@etechenv.com">erick@etechenv.com</a> or Joseph S. Hernandez at (432) 305-6413 or <a href="mailto:joseph@etechenv.com">joseph@etechenv.com</a>. Appendix G provides correspondence email notification receipts associated with the subject release. The CVR and approved email receipt is provided in Appendix H.

Sincerely,

Etech Environmental and Safety Solutions, Inc.

Erick Hererra Project Geologist

Ericl &

Joseph S. Hernandez Senior Managing Geologist

Sompred Holy

CC:

Jim Raley, Devon

New Mexico Oil Conservation Division

Bureau of Land Management

#### Appendices:

**Appendix A**: Figure 1: Site Map

Figure 1A: Site Characterization Map – Groundwater

Figure 1B: Site Characterization Map – Surficial Receptors

Figure 1C: Site Characterization Map – Subsurface Receptors

**Appendix B**: Referenced Well Records

Appendix C: Soil Sampling Logs

Appendix D: Photographic Log

Appendix E: Tables

**Appendix F**: Laboratory Analytical Reports & Chain-of-Custody Documentation

**Appendix G**: Correspondence & Notifications

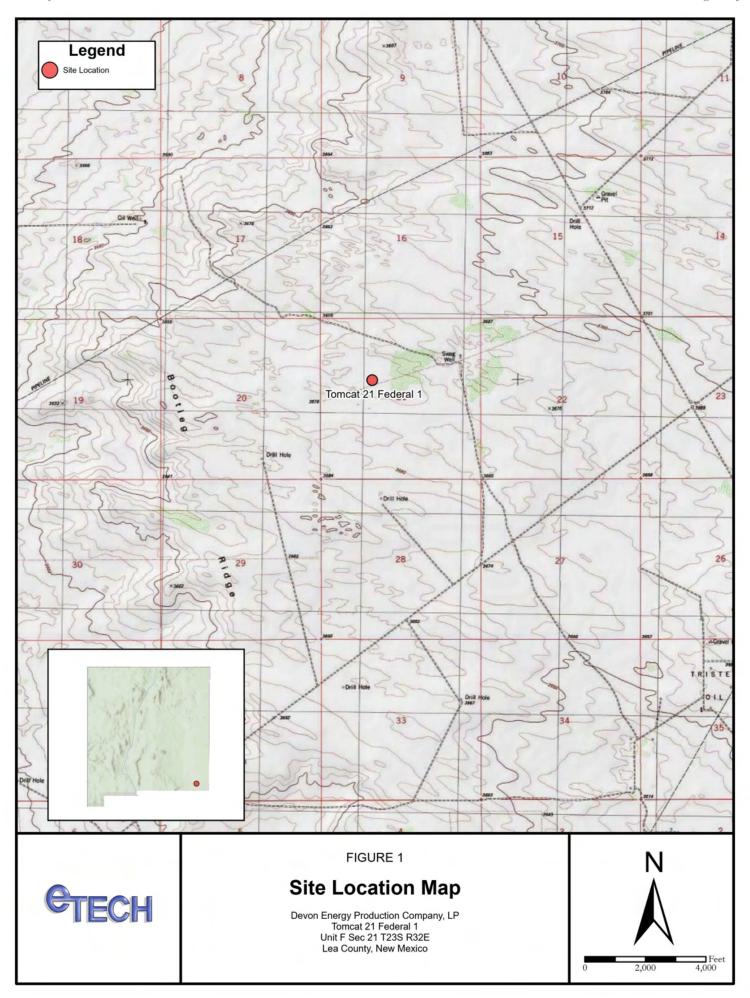
**Appendix H**: Approved Characterization Variance Request

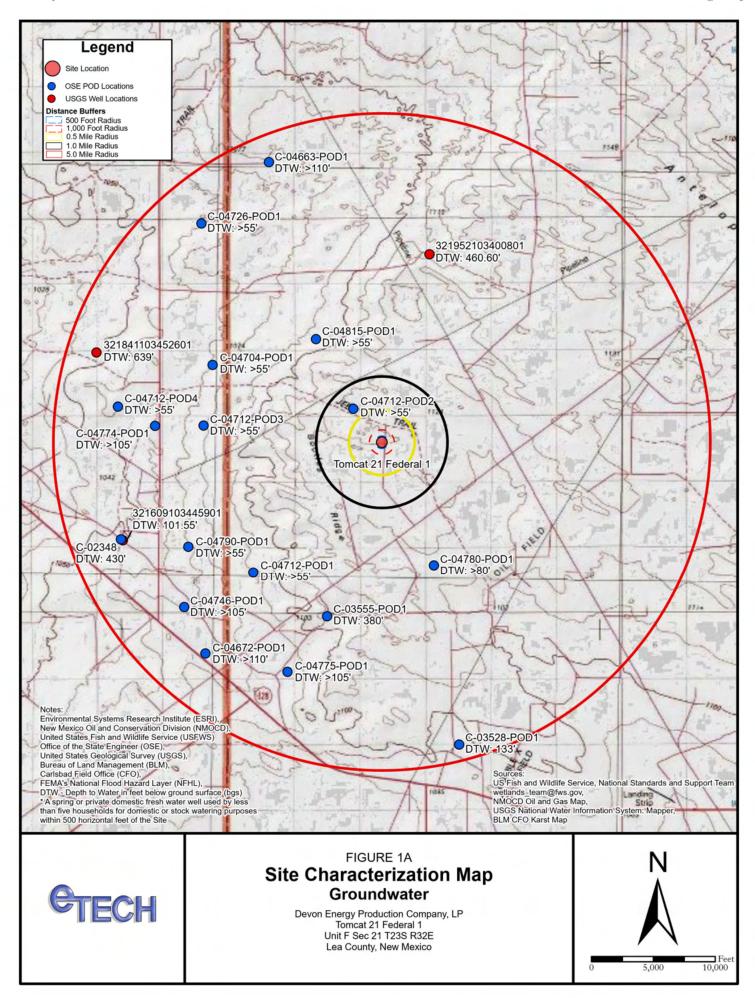
## **APPENDIX A**

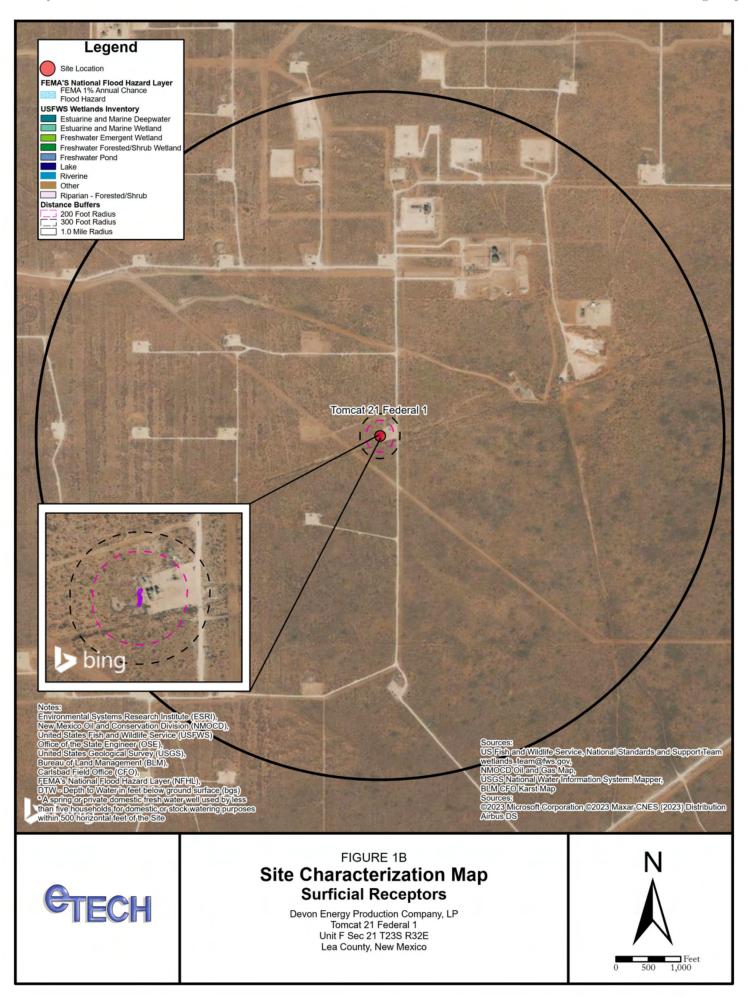
**Figures** 

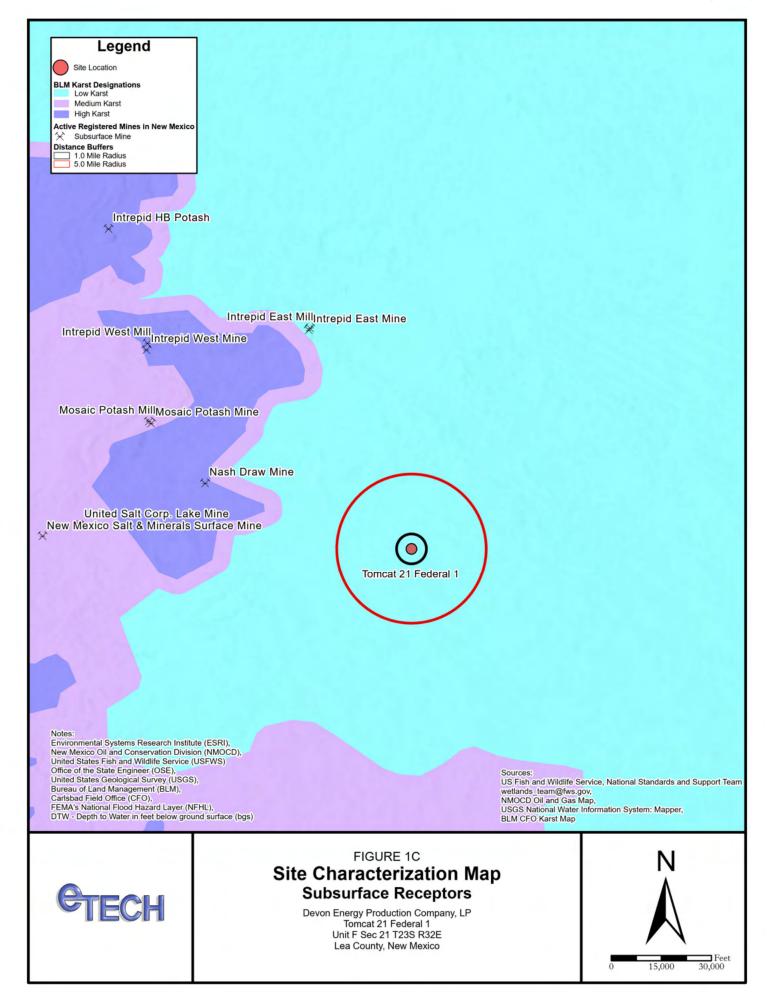
P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213

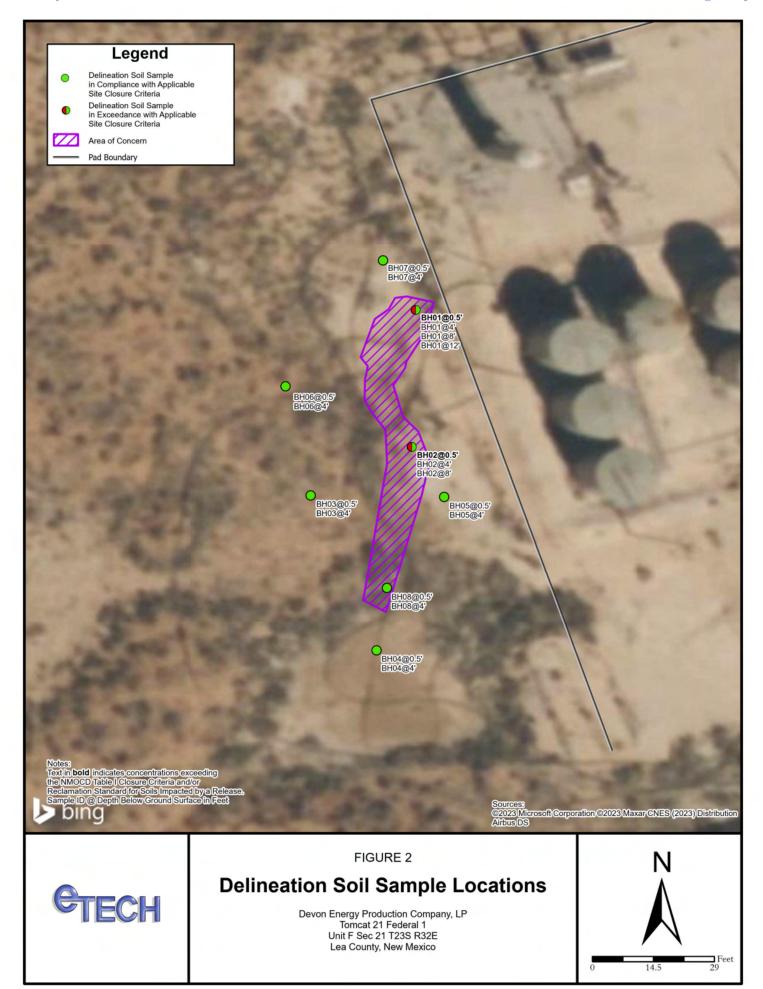


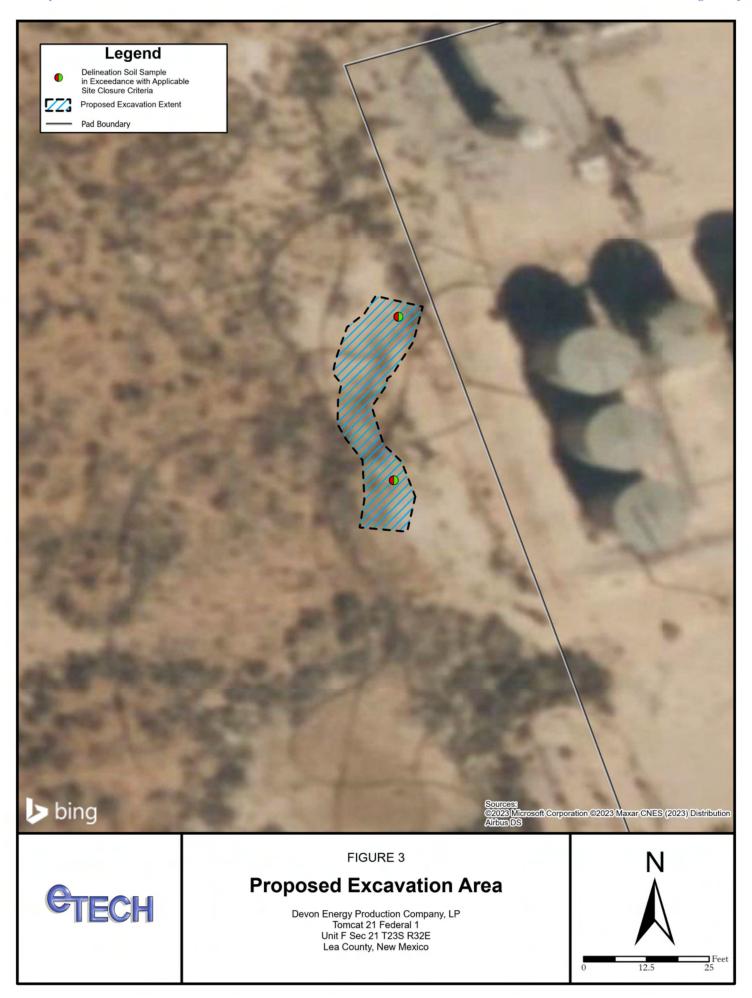












## **APPENDIX B**

Referenced Well Records

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213





## New Mexico Office of the State Engineer

## Water Column/Average Depth to Water

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are smallest to largest)

(meters)

(In feet)

water right me.)	cioseu)			Silidile	3t to 1a1	.yest)							(meters)		(III Ieet)	,
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<u>C 02216</u>		CUB	LE	NE	NE	SE	21	23S	32E	625035.0	3573261.0 *	•	1026	585	400	185
C 04712 POD2		CUB	LE	SE	SE	SE	17	23S	32E	623331.9	3574331.5		1076	55		
C 03851 POD1		CUB	LE	SW	SW	SE	20	23S	32E	622879.6	3572660.0		1447	1392	713	679
<u>C 04815 POD1</u>		CUB	LE	NW	SE	SW	80	23S	32E	622391.9	3576025.7	•	2998	55		
<u>C 04780 POD1</u>		CUB	LE	NW	SW	NW	34	23S	32E	625363.6	3570521.7	•	3278	80		
C 04807 POD1		CUB	LE	NW	NE	NW	11	23S	32E	625605.4	3577401.0		4182	105		
<u>C 04712 POD3</u>		CUB	ED	SE	NW	NE	24	23S	31E	619650.7	3573877.9		4405	55		
<u>C 04712 POD1</u>		CUB	LE	NW	SE	NW	31	23S	32E	620917.2	3570289.2	•	4496	55		
<u>C 04704 POD1</u>		CUB	ED	SW	NE	NE	13	23S	31E	619854.4	3575363.5		4574			
<u>C 02349</u>		CUB	ED	SE	NE	SW	03	23S	32E	625677.9	3578003.4		4770	525		
<u>C 04790 POD1</u>		CUB	ED	SE	SE	SW	25	23S	31E	619309.4	3570904.8	•	5408	55		
C 04774 POD1		CUB	ED	SE	NE	NE	23	23S	31E	618456.0	3573856.4		5596	105		
C 04775 POD1		CUB	LE	SE	SE	SE	06	24S	32E	621789.3	3567860.4		6093	105		
C 04746 POD1		CUB	ED	SW	SE	SW	36	23S	31E	619225.7	3569417.8		6327	105		
C 04712 POD4		CUB	ED	NW	SE	SW	14	23S	31E	617535.4	3574316.2		6554	55		
C 04672 POD 1		CUB	ED	NE	NW	SE	01	24S	31E	619762.2	3568286.5		6762	110		
<u>C 02275</u>		CUB	LE	SW	SW	NE	19	23S	33E	630843.0	3573557.0 *		6801	650	400	250
<u>C 02276</u>		CUB	LE	SW	NW	SE	19	23S	33E	630848.0	3573154.0 *		6815	650	400	250
C 04726 POD1		CUB	ED	NW	NW	SE	01	23S	31E	619538.3	3578821.3		6954			
<u>C 02777</u>		CUB	ED	SE	SE	SE	10	23S	31E	616973.8	3575662.1		7385	890		
C 03749 POD1		CUB	ED		NE	NE	15	23S	31E	616973.8	3575662.1		7385	865	639	226
C 04663 POD1		CUB	LE	SW	NW	NE	31	22S	32E	621181.3	3580341.4		7395	110		
<u>C 02350</u>		CUB	ED		SE	SW	10	24S	32E	625826.0	3566333.0 *		7407	60		
C 04551 POD1		CUB	LE	SE	SE	SW	31	23S	33E	630671.0	3569556.5		7724			
<u>C 02405</u>		CUB	ED		SE	NW	02	24S	31E	617690.0	3568631.0 *		8016	275	160	115

Average Depth to Water: 452 feet

Minimum Depth: 150 feet

Maximum Depth: **713 feet** 

**Record Count: 25** 

**Basin/County Search:** 

Basin: C

Subbasin: CUB

**UTM Filters (in meters):** 

**Easting:** 624042 **Northing:** 3573522

**Radius:** 8047

\* UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

PAGE 1 OF 2

WELL TAG ID NO.



## WELL RECORD & LOG

### OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

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NOLA									
3. AN									
						1			

	DEPTH (1	feet bgl)	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONE (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING
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LIUKE	CORRECT	RECORD (	OF THE ABOVE D	IES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BEI ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL D DAYS AFTER COMPLETION OF WELL DRILLING:		
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2

POD NO.

TRN NO.

WELL TAG ID NO.

PAGE 2 OF 2

LOCATION Nuon 23.32.17.444

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

## STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr:

743189

File Nbr:

C 04712

Well File Nbr: C 04712 POD2

Apr. 04, 2023

VERTEX RESOURCES
P.O. BOX 936
ROSWELL, NM 88202

Greetings:

The above numbered permit was issued in your name on 02/21/2023.

The Well Record was received in this office on 04/04/2023, stating that it had been completed on 03/09/2023, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 02/21/2024.

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

Sincerely,

Maret Thompson (575)622-6521



Z	OSE POD NO. (WI	ELL NO.	2	WI	ELL TAG ID NO.			OSE FILE NO				
САТІО	WELL OWNER N. Devon Energy							PHONE (OPT	IONAL)	43		
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	R OSE INTER		_		POD NO.							ersion 09/22/2022)
_		04819		142	POD NO.		*****		7570	4 4	0	PAGE 2 OF 2
LO	CATION 7	-02.	32E.08.	(-(5			WELL	TAG ID NO.				TAGE 2 OF

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

#### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: File Nbr: 757440 C 04815

Well File Nbr: C 04815 POD1

Apr. 25, 2024

CHANCE DIXON VERTEX RESOURCE SERVICES INC 3101 BOYD DRIVE CARLSBAD, NM 88220

Greetings:

The above numbered permit was issued in your name on 03/14/2024.

The Well Record was received in this office on 04/25/2024, stating that it had been completed on 04/16/2024, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 03/14/2025.

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

Sincerely,

Rodolfo Chavez (575) 622 - 6521

Rodolfo Chaus



							PHONE (OPTIO	ONAL)		
		ADDRESS					CITY Midland		STATE TX	7970:
WELL LOCATION	-		32	MINUTES 15	51.886	52 <sub>N</sub>			TH OF A SECOND	
	LON								ERE AVAILABLE	
WD-17	06	NAME OF LICENSED	DRILLER	Bryce Wallace	,					
		DRILLING ENDED 10/27/23	DEPTH OF CO	OMPLETED WELL (	FT)	BORE HO	LE DEPTH (FT)	DEPTH WATER FIR	ST ENCOUNTERED N/A	(FT)
COMPLETED V	VELL IS:	ARTESIAN	✓ DRY HO	LE SHALL	OW (UNCON	FINED)				N/A
DRILLING FLU	ID:	✓ AIR	MUD MUD	ADDITI	IVES – SPECI	FY:				
Midland   TX   799			ADAPTER							
		DIAM	GRADE (include each casing string, and		g, and	CONNECTION TYPE		INSIDE DIAM.	THICKNES	
		6				(aud coup	and diameter)			
								OSE OII N	3U 7 2023 P	0.138
			1							
FROM	10	6			N/A					
OSE INTERN	AI IICE						W/D 2	WELL DECORD	& LOG (Varsian	01/28/20

	DEPTH (	feet bgl)		COLORAL	ID TYPE OF M	ATERIAL EX	COLNITERED			ESTIMATED
	FROM	то	THICKNESS (feet)	INCLUDE WATE	ER-BEARING (	CAVITIES OF	COUNTERED - R FRACTURE ZONE scribe all units)	ES	WATER BEARING? (YES/NO)	YIELD FOR WATER- BEARING ZONES (gpm)
	0	5	5		RED SAN	D/CALICHE			Y ✓ N	
	5	10	5		RED T.	AN SAND			Y ✓ N	
	10	15	5		RED TAN SAI	ND W/ CALIG	CHE		Y ✓N	
	15	20	5		CALICHE V	W/ TAN SAN	D		Y ✓N	
	20	25	5		RED TAN SAI	ND W/ CALIC	CHE		Y ✓N	
J.	25	35	5	TA	AN SAND/SMA	LL CALICHE	ROCK	11	Y ✓ N	
4. HYDROGEOLOGIC LOG OF WELL	35	80	45	TAN/R	ED SAND W/ S	MALL CALI	CHE ROCK		Y ✓N	
OF									Y N	
00									Y N	
IC.									Y N	
007									Y N	
3EO									Y N	
ROC									Y N	
HYD									Y N	
4									Y N	
									Y N	
1									Y N	
									Y N	
									Y N	
									Y N	
									Y N	
	METHOD U	SED TO E	STIMATE YIELD	OF WATER-BEARIN	IG STRATA:			TOTA	AL ESTIMATED	
	PUM	P	AIR LIFT	BAILER O	THER – SPECIF	Y:		WEL	L YIELD (gpm)	0.00
NO	WELL TES			ACH A COPY OF DA ME, AND A TABLE S						
RVISION	MISCELLA	NEOUS IN	FORMATION:							
TEST; RIG SUPER								05E	OT NOV ? 20	)23 ml (38
S. TEST	PRINT NAM	ME(S) OF D	PRILL RIG SUPER	VISOR(S) THAT PRO	OVIDED ONSIT	E SUPERVIS	ION OF WELL COM	NSTRU	CTION OTHER T	THAN LICENSEE:
SIGNATURE	CORRECT I	RECORD C	F THE ABOVE D	IES THAT, TO THE E ESCRIBED HOLE AN 0 DAYS AFTER COM	ND THAT HE O	R SHE WILL	FILE THIS WELL			
9.9	- //	SIGNAT	TURE OF DRILLE	R / PRINT SIGNEE	NAME				DATE	
FOR	R OSE INTER	NAL USF					WR-20 WF	ELLRE	CORD & LOG (V	ersion 01/28/2022)
	A .	2478	D		POD NO.	1	TRN NO.		921	
LOC	CATION 7	35.3	ZE. 34.	131			WELL TAG ID NO			PAGE 2 OF 2

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

## STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: File Nbr: 751921 C 04780

Well File Nbr: C 04780 POD1

Nov. 14, 2023

BLAKE GROOMS
EOG RESOURCES
5509 CHAMPIONS DR.
MIDLAND, TX 79705

Greetings:

The above numbered permit was issued in your name on 10/11/2023.

The Well Record was received in this office on 11/07/2023, stating that it had been completed on 10/27/2023, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 10/10/2024.

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

Sincerely,

Rodolfo Chavez (575)622-6521

Rodly Charing

PAGE 1 OF 2

WELL TAG ID NO.



## WELL RECORD & LOG

### OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

100.00	OSE POD NO. (	WELL NO.)	0 2	WELL TAG ID NO.		OSE FILE NO(S	S).	1712	
ŀ	WELL OWNER	NAME(S)	2003			PHONE (OPTIO		1112	-
	Harvard WELL OWNER	Perro	oleum Comp ADDRESS	as X		CITY		STATE	ZIP
	P.O.Bo	_				Roswell			3202
	WELL	LATI	CHARLES AND ROLL OF THE PARTY OF THE PARTY OF	GREES MINUTES SECONDS 17 43.		* ACCURACY	REQUIRED: ONE TEN		
	(FROM GPS)	LON		STREET ADDRESS AND COMMON LANDM	NAME OF BRIDE OF BRIDE		QUIRED: WGS 84	EDE AVAN ADVE	
	DESCRIPTION	RELATING	G WELL LOCATION TO	STREET ADDRESS AND COMMON LANDM	AKKS - PLS	s (SECTION, TO	wnshjip, kange) wh	ERE AVAILABLE	
	LICENSE NO.	T	NAME OF LICENSED	DRILLER			NAME OF WELL DR	ILLING COMPANY	
	1833 DRILLING STA	ARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOL	E DEPTH (FT)		OUCES ST ENCOUNTERED (FT	)
	3-9-20		3-9-2023	55	55		Dcx	( )	
	COMPLETED		ARTESIAN *add Centralizer info bel	DRY HOLE SHALLOW (UNCO	ONFINED)		WATER LEVEL PLETED WELL	DATE STATIO	MEASURI
	DRILLING FLU		AIR	MUD ADDITIVES – SPE			CHECK	HERE IF PITLESS ADA	DTED IS
-	DRILLING ME	PROCES CONTRACTOR	ROTARY HAMM	IER CABLE TOOL OTHER - SPE	CIFY:		INSTAL	LED	PIEKIS
	DEPTH (feet bgl) BORE HOLE FROM TO DIAM (inches)		DIAM	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	SING VECTION YPE ing diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLO' SIZI (inche	
3	0	45	DI	211 PUC SH40	Threa	1	211	Sch 40	
	45	55	411	2" PUC Schyo(screen)	Threa	d	211	Seh 40	. 00
							nar on acc	42023 PM1:23	
			The action of the part of the control of the contro	LIST ANNULAR SEAL MATERIAL AN	D GRAVEI	PACK SIZE-	WWW W23 1111	1 4 2023 412 (23	
	DEPTH (f	TO	BORE HOLE DIAM. (inches)	RANGE BY INTER  *(if using Centralizers for Artesian wells-	VAL		AMOUNT (cubic feet)	METHO PLACE	
La Phology, III				None Pulled a	nd Pl	ugged			
No.		AL USE						/	

LOCATION

	DEPTH	(feet bgl)		COLOR AND TYPE OF MATERIAL ENCOUNTERED -	WATER	ESTIMATED
	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	BEARING? (YES / NO)	YIELD FOR WATER- BEARING ZONES (gpm)
	0	20	20	White Caliche	Y N	
	20	45	25	Brown Fire Sand Red Sandy Caliche	Y N	
	45	55	10	Red Sandy Caliche	Y N	
					Y N	
			1 1 1 1 1		Y N	
3			1 or 25 L		Y N	
4. HYDROGEOLOGIC LOG OF WELL			100		Y N	
OF					Y N	
507				40.7	Y N	
COL					Y N	
100		7			Y N	
GEO					Y N	
RO			30,		Y N	
HYL			F		Y N	
4.					Y N	
	1		31		Y N	
			1 197	61	Y N	
		1			Y N	
					Y N	
				And the second of the second o	Y N	
					Y N	
	METHOD	USED TO E	STIMATE YIELD		TAL ESTIMATED	
	PUM	IP A	IR LIFT	BAILER OTHER – SPECIFY: W	ELL YIELD (gpm):	Dry
ON	WELL TE			ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUI ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER T		
VISI	MISCELLA	ANEOUS IN	FORMATION:			HARRICH HER SHELLE NO BURGERS LAN
5. TEST; RIG SUPERVISION				OSE	DIT APR 4 2023 •	M1:23
S. TES	PRINT NA	ME(S) OF D	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTR	UCTION OTHER TH	AN LICENSEE:
TURE	CORRECT	RECORD C	F THE ABOVE D	IES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECOD DAYS AFTER COMPLETION OF WELL DRILLING:	THE FOREGOING I ORD WITH THE STA	S A TRUE AND TE ENGINEER
6. SIGNATURE	0	(	Maly	Joson Moley	3/24/2	3
		SIGNAT	MRE OF DRILLE	PRINT SIGNEE NAME	DATE	

POD NO.

743189

PAGE 2 OF 2

TRN NO.

WELL TAG ID NO.

LOCATION NEON 23.31.24.412

FILE NO. C-4712-POD3

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

## STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr:

743189

File Nbr:

C 04712

Well File Nbr: C 04712 POD3

Apr. 04, 2023

VERTEX RESOURCES P.O. BOX 936 ROSWELL, NM 88203

Greetings:

The above numbered permit was issued in your name on 02/21/2023.

The Well Record was received in this office on 04/04/2023, stating that it had been completed on 03/09/2023, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 02/21/2024.

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

Sincerely,

Maret Thompson (575)622-6521



STATE ENGINEER OFFICE ROSWELL

	OSE POD NUMBER (WELL NUMBER)												
7	_					C- 3		CH-H	}				
5		5555- ER NAME(S)	7001	<del>_</del>		PEONE (OPTI	<u> </u>	<del></del>					
3	MALLOWN	i. Ma	n = n	ent. O. L.				714- 411c	7				
3	MARK	ER MAILING A	104 - //	e Clay RANCHES		CITY .	732	740-445 STATE	ZIP				
TI.	A	EN BINDOUGH A					Alex	003	_				
¥	Box	10 16	254 2	liamond Road	<del></del>	Jal	NA	8825	<u> </u>				
	WELL		DB	FREES MINUTES SECO	NDS								
<b> </b>	LOCATIO		иов <u>3а</u>	15 12.71	N	i	REQUIRED: ONE TEN	TH OF A SECOND					
ER	(FROM Q	S) - LONG	TUDE 103	49.24	w	DATUM	QUIRED: WCS 84						
GENERAL AND WELL LOCATION	DESCRIPTION	ON RELATING	WELL LOCATION TO	STREET ADDRESS AND COMMON LANDM	ARKS - PLS	S (SECTION, TO	wnshjip, Range) wh	ERE AVAILABLE					
- Huy 128 mm 20 4 miles North - 14 weast													
H	LECENSE NUMBER NAME OF LICENSED DRILLER NAME OF WELL DRILLING COMPANY												
	1654	Į l	16/1	Sirman			Some 7	Poilling de	wet Ch				
[	DRILLING S			DEPTH OF COMPLETED WELL (FT)	BORE HOL	LE DEPTH (PT)	DEPTH WATER FIRE	Welling of G. ST ENCOUNTERED (FT	5				
ŀ	10/20/13 10/21/13 6000 6000 475-0												
	10/40	721	10/2/11/				, , ,	VEL IN COMPLETED W	ELL (PT)				
,	COMPLETE	D WELL IS:	ARTESIAN	DRY HOLE SHALLOW (UNCO	NFINED)		380 %	)					
DRILLING FLUID: ARTESIAN DRY HOLE SHALLOW (UNCONFINED)  DRILLING FLUID: ARTESIAN DRY ADDITIVES - SPECIFY:  DRILLING METHOD: PROTARY HAMMER CABLE TOOL OTHER - SPECIFY:  DEPTH (feet bgl) BORE HOLE GRADE CASING CASING CASING WALL SLOT GRADE (inches) (inches) (inches) (inches) (inches)  O 440 10 PC Cepta-Lok DR-17 Blank													
3	DRILLING		ROTARY	HAMMER CABLE TOOL		R - SPECIFY:	·						
ğ	<u> </u>			CASING MATERIAL AND/OR			<u> </u>	T The state of the	===				
Z	FROM	(feet bgl)	BORE HOLE	GRADE CASING CONNECTION			CASING INSIDE DIAM.	CASING WALL THICKNESS	SLOT				
ĕ	FROM	10	DIAM (inches)	(include each casing string, and		YPE	(inches)	(inches)	(inches)				
3	<u> </u>	1110		note sections of screen)	1	1 4	(,		101				
	D	460	/0	Puc	CEPTA	g-Lok	-6	DR-17	Blank				
	460	520	10	PVC	Cost	u-lok	7	DR-17	10325				
DRILLING	760			7 5 5 5			F	100-1-1					
7	520	600	10	PUC	Feet	shok	6"	DR-17	Blank				
1		•											
}						<del></del>		ļ	<del>  </del>				
							<u> </u>						
	DEPTH	(feet bgi)	BORE HOLE	LIST ANNULAR SEAL MA		_	AMOUNT	метно	_				
¥	FROM	TO	DIAM. (inches)	GRAVEL PACK SIZE-RANGI	BYINTE	RVAL	(cubic feet)	PLACE	MENT				
TEH	0	20	10	3/8 bentonite	role p	49	6 Bags	grai	ita				
MA							<del>, , , , , , , , , , , , , , , , , , , </del>						
ANNULAR MATERIAL	34	600	10	3/8 pea stave	-/_P	ACK_	4 4015	gcaril	Cy.				
150													
Y	<del>- , -  </del>		<del></del>				<del></del> -	<del></del>					
લ	<u> </u>	-1						<del></del>					
		<u> </u>	L	<del></del>			<u> </u>						
	OSE INTER		\ <del>- ~ =</del>			1"		& LOG (Version 06/0	08/2012)				
ļ	NUMBER		5555	POD NUMBER		TRN	TUMBER 53	434					
1100	.75037	245	1,32E.D	5 1-2-2				1 7 4 0 7	1000				

	DEPTH	Cont both	<u> </u>		<del></del>	ESTIMATED
	DEPTH (	TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONI (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	YIELD FOR WATER- BEARING ZONES (gpm)
	D	10	10	white caliche	□Y ⊕W	
	10	60	50	Red SANd	□Y <del>□N</del>	
	60	75	15	BROWN SANdSTONE	□Y <del>□N</del>	
	75	100	25	aren sandstone	□Y <del>□N</del>	
	100	110	10	Red clay	□Y <del>□</del> N	
3	110	160	50	BROWN SANdstone		
HYDROGEOLOGIC LOG OF WELL	160	400	240	Red elsy	□Y <del>□</del> ₩	
0 P	400	450	50	BROWN SANdstone	□Y □X	
9	450	475	25	Red Clay	□Y □N	
oj.	475	550	75	Blown SANDS HONE YSAM,	/ ON	5
ğ	550	600	50	Red Clay	□Y <del>□N</del>	
CEC	L	<u> </u>			N DY	
DRO					N D A	
			<u> </u>	<u> </u>	□ A □ Ñ	
<b>+</b>		600				<b>7.</b> 0.5
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					. □Y □ <u>M</u>	- i욱
		<u> </u>	<u> </u>		N DY	- ; <u>- ; - ; - ; - ; - ; - ; - ; - ; - ;</u>
				of water-bearing strata: Pump	TOTAL ESTIMATED WELL YIELD (gpm):	
	AIR LIF	r 🔘 ı	BAILER	OTHER - SPECIFY:	WELL TIELD (gold).	
ON	WELL TES			ACH A COPY OF DATA COLLECTED DURING WELL TESTING, IN ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OV		
VISI	MISCELLA	NEOUS INF	ORMATION:			
PER					-	
TEST; RIG SUPERVISION	No	ne				ļ
Ë						
TES	PRINT NAM	E(S) OF DE	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CON	VITRUCTION OTHER TH	IAN LICENSEE:
<b>4</b> 5		non	e	````	· 	
	THE UNDER	RSIGNED H	EREBY CERTIF	ES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELL	EF, THE FOREGOING IS	A TRUE AND
SIGNATURE				ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL F DDAYS AFTER COMPLETION OF WELL DRILLING:	CCOKD WITH THE STA	i e engineer
¥.		1	1		. 1	
SIC		K , and	Muau	John SIRMAN)	11/3/13	-
٥	7	SIQNATI	URE OF DRILLE	R / PRINT SIGNEE NAME	DATE	
	OSE INTER	MAI 1100		UT AA UU	TI PECOPD \$ 100 C	
$\overline{}$	OSE INTER	()	3555	POD NUMBER   TRN NUMI	IL RECORD & LOG (Va BER 524311	aion 00/08/2012)
-~	· 770	<u></u> _	2115	328.05 1-2-2		Troppose
			C401			

PAGE 1 OF 2

WELL TAG ID NO.



## WELL RECORD & LOG

### OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

	OSE POD NO.	(WELL NO.)	DAD I	WELL TAG ID NO.		OSE FILE NO(S	O - C	1712			
L	<u>C-6</u>	4712	- POD I			PHONE (OPTIO		7/12			
l	WELL OWNE	vard	Datalour	Company		PHONE (OF IT	JAAL)				
H	WELL OWNE			· Correlative		CITY		STATE	ZIP		
L		Box				Rosu	sell	NM 8	820		
r	WELL		DEC	1 S	4						
	LOCATION	LATI	TUDE	32 15 46	./ N	100	REQUIRED: ONE TENT	H OF A SECOND			
	(FROM GPS	LONG	GITUDE - 1	03 42 58	3,4 W	* DATUM REC	QUIRED: WGS 84				
F	DESCRIPTIO	N RELATING	ATT THE RESIDENCE AND A SECOND PORTION OF THE PARTY OF TH	STREET ADDRESS AND COMMON LANDM	IARKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WHI	ERE AVAILABLE	Option 2011/2016		
L			SECTION OF STREET				LANGE OF WELL PAR	I DIG COLENIA	-5-229		
	LICENSE NO.		NAME OF LICENSED I	ORILLER			NAME OF WELL DRI				
L	1833	L D TE	Jason	1 Cally	DOBE US	E DEDTU (PT)	VISION DEPTH WATER FIRE	KESOUTCE TENCOUNTERED (ET)			
	DRILLING ST	ARTED	1 -1	DEPTH OF COMPLETED WELL (FT)		LE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)				
L	Mar	2013	3 9 23	55	)	5 STATIC	WATER LEVEL				
	COMPLETED	WELL IS:	ARTESIAN *add	DRY HOLE SHALLOW (UNC	ONFINED)	STATIC WATER LEVEL IN COMPLETED WELL DATE STATIC M			MEASU		
L			Centralizer info bel	(FT)	ery	en	1				
L	DRILLING FL		AIR	MUD ADDITIVES – SPE			Curren	HERE IF PITLESS ADA	DTED IC		
	DRILLING M	ETHOD: [V	ROTARY HAMM	ER CABLE TOOL OTHER - SPE	CIFY:		INSTAL	LED THESS ADA	I IER IS		
F	DEPTH (	(feet bgl)	BORE HOLE	CASING MATERIAL AND/OR		ASING	CASING	CASING WALL	SLO		
FROM TO DIAM			100	GRADE		NECTION	INSIDE DIAM.	THICKNESS	SIZE		
	(inches)			(include each casing string, and note sections of screen)	(add coup	YPE ling diameter)	(inches)	(inches)	(incl		
1	0	45	6	7" OVE 50h 40	-	read	2"	Sch 40	-		
t	45	55	10	2" Dute Sch SU	Tv	ead	Z"	5ch40	.0		
r	70	9 0		2 000	1	1.19.50					
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r					1	1. July 1. S.		The Value of the State			
					11.5						
			1 1 1 1 1								
T	DEPTH (	(feet bgl)	BORE HOLE	LIST ANNULAR SEAL MATERIAL AN		L PACK SIZE-	AMOUNT	метно	D OF		
1	FROM	ТО	DIAM. (inches)	RANGE BY INTER		spacing below)	(cubic feet)	PLACE			
H	IKOM	10	-	An using Centralizers for Artesian wens	.nuicate the	spacing below)					
H					1	-		1			
1				None Pulle	d V	Ind	Plugge	d			
1				1 -01 - 1000		V /	00				
1				7		120					
H											
1											

LOCATION

on 23.32.31.141

	DEPTH (f	eet bgl)		COLOR AN	D TYPE OF MAT	TERIAL ENG	COUNTERED -	v	VATER	ESTIMATEI YIELD FOR
	FROM	то	THICKNESS (feet)		R-BEARING CA plemental sheets		FRACTURE ZONE	S BE	EARING? ES / NO)	WATER- BEARING ZONES (gpm
	0	20	20	White	. Cahal	re		Y	_	
	20	45	25	Brows	Fine Sc	and		Y	N	
	45	55	10	Red so	1 04	che	100	Y	N	
	,							Y	N	
						4		Y	N	
								Y	N	
				2-4				Y	N	
							4	Y	N	
							T.	- Y	N	
								Y	N	
				0.				Y	N	
				W.			V	Y	N	
00						1		Y	N	
							·	Y	N	.0
			Carlo	1			4 -	Y	N	
			1 10 10 11					Y	N	
			1	3 P				Y	N	
								Y	N	
				12		74.7		Y	N	
						40.0	3.2.	Y	N	
				7				Y	N	
	METHOD U	SED TO ES	STIMATE YIELD	OF WATER-BEARING	G STRATA:			TOTAL ES	TIMATED	
	PUMI	P	IR LIFT	BAILER OT	HER – SPECIFY	150		WELL YIE	ELD (gpm):	Dry
				ACH A COPY OF DAT				CLUDING DI	SCHARCE.	
	WELL TES			ME, AND A TABLE SH	IOWING DISCH.	ARGE AND	DRAWDOWN OV			
	WELL TES	STAR		ME, AND A TABLE SH	OWING DISCH	ARGE AND			TING PERIO	OD.
	WELL TES	STAR	T TIME, END TIME	VISOR(S) THAT PRO			(	SE DIJ AF	TING PERIO	DD.
	WELL TES	NEOUS IN	T TIME, END TIME FORMATION:  PRILL RIG SUPER	VISOR(S) THAT PRO	VIDED ONSITE	SUPERVISI	ON OF WELL COM	SE DIT AF	TING PERIO	DD.  PM1:23  HAN LICENSE
	WELL TEST MISCELLATE PRINT NAM THE UNDER	NEOUS IN	T TIME, END TIME FORMATION:  PRILL RIG SUPER HEREBY CERTIF OF THE ABOVE D	VISOR(S) THAT PRO IES THAT, TO THE B ESCRIBED HOLE AN 0 DAYS AFTER COM	VIDED ONSITE  EST OF HIS OR D THAT HE OR PLETION OF WI	SUPERVISI HER KNOW SHE WILL	ON OF WELL CON LEDGE AND BEI FILE THIS WELL	SE DIJ AF	TING PERIO	DD.  PM1:23  HAN LICENSE  IS A TRUE AN
	WELL TEST MISCELLATE PRINT NAM THE UNDER	ME(S) OF D RESIGNED RECORD CERMIT HO	FORMATION:  PRILL RIG SUPER  THEREBY CERTIF OF THE ABOVE D  SUPER WITHIN 3	VISOR(S) THAT PROTES THAT, TO THE BESCRIBED HOLE AN	EST OF HIS OR D THAT HE OR PLETION OF WI	SUPERVISI HER KNOW SHE WILL	ON OF WELL CON LEDGE AND BEI FILE THIS WELL	SE DIJ AF	TING PERIO	DD.  PM1:23  HAN LICENSE
	WELL TEST MISCELLATE PRINT NAM THE UNDER	ME(S) OF D RESIGNED OF RECORD OF THE SIGNAT	FORMATION:  PRILL RIG SUPER  THEREBY CERTIF OF THE ABOVE D  SUPER WITHIN 3	VISOR(S) THAT PRO IES THAT, TO THE B ESCRIBED HOLE AN 0 DAYS AFTER COM	EST OF HIS OR D THAT HE OR PLETION OF WI	SUPERVISI HER KNOW SHE WILL	ON OF WELL CON LEDGE AND BEI FILE THIS WELL NG:	SE DIT AF	OR 4 2023 NOTHER TO DREGOING TH THE ST.	HAN LICENSE

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

## STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr:

743189

File Nbr:

C 04712

Well File Nbr: C 04712 POD1

Apr. 04, 2023

VERTEX RESOURCES P.O. BOX 936 ROSWELL, NM 8820

Greetings:

The above numbered permit was issued in your name on 02/21/2023.

The Well Record was received in this office on 04/04/2023, stating that it had been completed on 03/09/2023, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 02/21/2024.

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

Sincerely,

Maret Thompson (575)622-6521



	OSE POD NO. (W	ELL NO.	)		WELL TAG ID NO	).		OSE FILE N	O(S).				
ON	POD 1 (TW-1	)			N/A			C-4704					
OCATI	WELL OWNER N Devon Energy							PHONE (OPTIONAL) 575-748-1838					
WELL L	WELL OWNER MAILING ADDRESS 6488 7 Rivers Hwy							CITY STATE ZI Artesia NM 88210				ZIP	
GENERAL AND WELL LOCATION	WELL LOCATION (FROM GPS)  DESCRIPTION I	LON	DE TTUDE GWELL LOCATION TO	GREES 32 103 STREET ADDR	MINUTES 18 43 RESS AND COMMO	SECO 31. 36	.26 <sub>N</sub>	* DATUM F	REQUIRED:				
1		ec.13 T	23S R31E NMPM										
	LICENSE NO. 1249		NAME OF LICENSED		Jackie D. Atkin	s			NAME	OF WELL DRI Atkins Eng		MPANY Associates, I	nc.
	DRILLING STAR 4/11/23		DRILLING ENDED 4/11/23		MPLETED WELL (I			LE DEPTH (FT ±55	DEPTH	DEPTH WATER FIRST ENCOUNTERED (			
Z	COMPLETED WELL IS: ARTESIAN DRY HOLE SHALLOW (UNCONFINED)						ONFINED)		STATIC WATER LEVEL IN COMPLETED WELL (FT)  DATE STATIC MEASUR 4/18/23				
VIIO	DRILLING FLUI	D:	AIR	MUD MUD	ADDITI	VES – SPE	CIFY:						
)RM	DRILLING METI	HOD:	ROTARY HAMN	MER CABI	LE TOOL 🗸 OT	HER – SPE	CIFY: I	Hollow Ster	n Auger	CHECK INSTAL	HERE IF P LED	TITLESS ADA	PTER IS
CASING INFORMATION	DEPTH (feet bgl)  FROM TO DIAM (inches)		(include	(include each casing string, and		CON	ASING NECTION TYPE ling diameter)	INSIDE DIAM.		THIC	NG WALL CKNESS nches)	SLOT SIZE (inches)	
NG & C.	0	55	±6.25		Soil Boring								
DRILLING &													
2. 1									USE	UII APR	28 20	23 pm[1:5(	
	DEPTH (fee	et bgl)	BORE HOLE		ST ANNULAR S					AMOUNT	T	МЕТНО	
ERIAI	FROM TO DIAM. (inches)			GRA	GRAVEL PACK SIZE-RANGE BY INTERVAL N/A				(cubic feet) PLACEMENT			MENT	
3. ANNULAR MATERIAL													
	OSE INTERNA				POD N					RECORD		Version 01/2	8/2022)

FOR OSE INTERNAL USE

FILE NO. C. 04704

POD NO. | TRN NO. 747173

LOCATION 785.3 [E . 13.377

WELL TAG ID NO. | PAGE 1 OF 2

PAGE 2 OF 2

WELL TAG ID NO.

	DEPTH (i	TO	THICKNESS (feet)	INCLUD	LOR AND TYPE OF MATERIE E WATER-BEARING CAVIT Complemental sheets to f	IES OR FRACTURE ZONE	s	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	20	20	Sand, fine-gra	rained, poorly graded, semi-cons	solidated, with caliche Tan/	white	Y ✓ N	
	20	44	24		ine-grained, poorly graded, sem			Y ✓N	
	44	55	9		ne-grained, poorly graded, semi-		n	Y ✓N	
								Y N	
								Y N	
٠								Y N	
VEL								Y N	
OF V								Y N	
90								Y N	
ICI								Y N	
507								Y N	
E0]								Y N	
4. HYDROGEOLOGIC LOG OF WELL								Y N	
HYD								Y N	
4								Y N	
								Y N	
								Y N	
								Y N	
								Y N	
								Y N	
								Y N	
	METHOD U	SED TO ES	TIMATE YIELD	OF WATER-E	BEARING STRATA:			L ESTIMATED	
	PUMI	)	IR LIFT	BAILER	OTHER - SPECIFY:		WEL	L YIELD (gpm):	0.00
NOIS	WELL TES				OF DATA COLLECTED DUI ABLE SHOWING DISCHARG				
(VIS	MISCELLA	NEOUS INF	ORMATION: Te	emporary well	l material removed and soil	boring backfilled using dr	rill cutti	ngs from total de	enth to ten feet
PER			be	low ground si	urface(bgs), then hydrated b	entonite chips ten feet bg	s to sur	face.	opin to ten reet
5. TEST; RIG SUPERVI			35 To	omb Raider 12	2 CTB 1	0	SE DI	T APR 28 202	3 PM_150
EST;	DRINT NIAN	IE(S) OF DI	DILL DIG GUDER	VISOD(S) TI	AT PROVIDED ONSITE SUP	EDVISION OF WELL CON	CTDIIC	TION OTHER TO	IAN LICENSEE.
5. T	Shane Eldric			(VISOR(S) TH	AT FROVIDED ONSITE SUF	ERVISION OF WELL CON	SIRUC	TION OTHER IN	IAN LICENSEE:
	Shalle Eldric	ige, Camer	On Fruitt						
ATURE	CORRECT F	RECORD O	F THE ABOVE I	ESCRIBED H	O THE BEST OF HIS OR HER OLE AND THAT HE OR SHI ER COMPLETION OF WELL	WILL FILE THIS WELL I			
6. SIGNATURE	Jack K	tkins			Jackie D. Atkins			4/27/23	
•		SIGNAT	URE OF DRILLE	R / PRINT S	SIGNEE NAME			DATE	
EOF	OSE INTER	NAI LICE				WP 20 NE	II DEC	OPD & LOC O	reion (11/29/2022)
FOR	OSE INTERI	NAL USE				WK-20 WE		CORD & LOG (Ver	rsion 01/28/2022)

LOCATION 235. 31E. 13.



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**USGS** Water Resources

Groundwater **United States** GO

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• Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site\_no list =

• 321952103400801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 321952103400801 23S.32E.03.311114

Lea County, New Mexico

Latitude 32°19'59.2", Longitude 103°40'12.6" NAD83

Land-surface elevation 3,648.00 feet above NGVD29

The depth of the well is 630 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

#### **Output formats**

Table of data								
Tab-separated data								
Graph of data								
Reselect period								
	?	Water	Water					
		Water						

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1976-12-09		D	62610		3227.43	NGVD29	1	Z		
1976-12-09		D	62611		3229.14	NAVD88	1	Z		
1976-12-09		D	72019	420.57			1	Z		
1981-03-26		D	62610		3209.66	NGVD29	Р	Z		
1981-03-26		D	62611		3211.37	NAVD88	Р	Z		
1981-03-26		D	72019	438.34			Р	Z		
1981-05-21		D	62610		3210.33	NGVD29	1	Z		
1981-05-21		D	62611		3212.04	NAVD88	1	Z		
1981-05-21		D	72019	437.67			1	Z		
1986-04-17		D	62610		3209.32	NGVD29	1	Z		
1986-04-17		D	62611		3211.03	NAVD88	1	Z		
1986-04-17		D	72019	438.68			1	Z		
1991-05-30		D	62610		3210.07	NGVD29	1	Z		
1991-05-30		D	62611		3211.78	NAVD88	1	Z		
1991-05-30		D	72019	437.93			1	Z		
1992-11-05		D	62610		3209.88	NGVD29	1	S		
1992-11-05		D	62611		3211.59	NAVD88	1	S		

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1992-11-05		D	72019	438.12			1	S		
1996-03-15		D	62610		3210.18	NGVD29	1	S		
1996-03-15		D	62611		3211.89	NAVD88	1	S		
1996-03-15		D	72019	437.82			1	S		
2013-01-17	01:00 UTC	m	62610		3161.40	NGVD29	Р	S	USG	S
2013-01-17	01:00 UTC	m	62611		3163.11	NAVD88	Р	S	USG	S
2013-01-17	01:00 UTC	m	72019	486.60			Р	S	USG	S

Ex	pla	na	tio	

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	Р	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	А	Approved for publication Processing and review completed.

Questions or Comments
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Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2024-09-05 14:59:20 EDT

0.34 0.25 nadww01





OSE DIT FEB 26 2024 PM2:04

Z	OSE POD NO. ( C4790-POD		.)		WELL TAG ID NO. C4790			OSE FI	LE NO(S	8).			
CATIO	WELL OWNER Devon Energ							PHON	E (OPTIO	ONAL)			
VELL LC	WELL OWNER 205 E Bende							CITY			STATE NM	88240	ZIP
GENERAL AND WELL LOCATION	WELL LOCATION (FROM GPS)	LO	TITUDE	32 -103	MINUTES 16 43		08 N 556 W	* DAT	UM REC	REQUIRED: ONE TEN' QUIRED: WGS 84			
1. GI	DESCRIPTION	RELATIN	NG WELL LOCATION TO	STREET ADD	RESS AND COMMON	LANDM	ARKS – PLS	SS (SECTI	ION, TO	WNSHJIP, RANGE) WH	ERE AVA	ILABLE	
	LICENSE NO. 1833	/	NAME OF LICENSED	DRILLER	Jason Maley								
			DRILLING ENDED 2-6-24	DEPTH OF C	OMPLETED WELL (F)	Γ)	BORE HO	55'	H (FT)	DEPTH WATER FIR			
Z	COMPLETED V	VELL IS:	ARTESIAN *add Centralizer info be	DRY HO	DLE SHALLO	W (UNCO	ONFINED)	1	N COMI		)' I		
RMATIO			✓ AIR  ROTARY	MUD MER CAI						CHECK	HERE IF	PITLESS ADAI	PTER IS
DRILLING & CASING INFORMATION	DEPTH (fo	rO	BORE HOLE DIAM (inches)	(include	GRADE each casing string,	and	CON	NECTIO		CASING INSIDE DIAM.	CASI	CKNESS	SLOT SIZE (inches)
CA	0	45'	6"						eter)	2"	S	SCH40	N/A
ING &	45'	55'	6"		2" PVC SCH40		7	Thread		2"	S	SCH40	.02
DRILL													
2.1													
		47								7.	-		
	DEPTH (fe	eet bgl)	BORE HOLE	LIST ANN				L PACK	SIZE-	AMOUNT		METHO	D OF
ERIAL	FROM	то	DIAM. (inches)	*(if using C	entralizers for Artesia	an wells-	indicate th	e spacing	below)	(cubic feet)	-	PLACEM	MENT
ANNULAR MATERIAL													
NULA													
3. AN			2										
	LICENSE NO.												
					POD NO	, 1						Version 09/2	2/2022)
-				13	FOD NO	<u>'                                    </u>		WELL		1321	5	PAGE	1 OF 2

	DEPTH (	feet bgl)		ntississe ussisianis osinidik usaan lise a valaisian		an disables asse			T			ESTIMATED
	FROM	то	THICKNESS (feet)	INCLUDE WATE	D TYPE OF MAT ER-BEARING CAV plemental sheets	VITIES O	R FRAC	TURE ZONE	s	WA' BEAR (YES	ING?	YIELD FOR WATER- BEARING ZONES (gpm)
	0	40'	40'		Red dirt with s	mall rock	S	7.0		Y	✓ N	
	40'	55'	15'		Tan fine sand wit	h small ro	ocks		1	Y	✓ N	
										Y	N	
										Y	N	
										Y	N	
T										Y	N	
4. HYDROGEOLOGIC LOG OF WELL										Y	N	
OF										Y	N	
90°										Y	N	
ICI										Y	N	
507										Y	N	7
EO										Y	N	
ROC								-	-	Y	N	
HYD										Y	N	
4	1.		9						.39	Y	N	
										Y	N	
										Y	N	
									- 6	Y	N	
										Y	N	
					,					Y	N	
		1 0								Y	N	
	METHOD U		- T	OF WATER-BEARING	G STRATA: THER – SPECIFY:	Dry				L YIELI	MATED (gpm):	0
No.	WELL TES	TEST	RESULTS - ATT	ACH A COPY OF DAT ME, AND A TABLE SH	'A COLLECTED I	DURING	WELL T	ESTING, INC	CLUDII ER THI	NG DISC	HARGE I	METHOD, OD.
TSION	MISCELLA	NEOUS IN	FORMATION:	- Compression and Automotive page (1998)				PRESIDENCE.				
ER												
5. TEST; RIG SUPERV								0	SE 0	II FEB:	26 2024	1 PM2:04
EST	PRINT NAM	ME(S) OF D	RILL RIG SUPER	VISOR(S) THAT PRO	VIDED ONSITE S	UPERVI	SION OI	F WELL CON	ISTRU	CTION O	THER TI	HAN LICENSEE:
5.1												
SIGNATURE	CORRECT	RECORD C	OF THE ABOVE D	IES THAT, TO THE B ESCRIBED HOLE AN ODAYS AFTER COM	D THAT HE OR	SHE WIL	L FILE					
6. SI		SIGNAT	TURE OF DRILLE	4			_	_		0-1	DATE	24
FOI	R OSE INTER	NAL USE		V			A STATE OF THE STA	WR-20 WE	LIBE	CORD &	LOG (Va	ersion 09/22/2022)
		0479	90		POD NO.			TRN NO.		3931	200 (10	101011 0712212022)
LO			IE. 25.	443			WELL	TAG ID NO.				PAGE 2 OF 2



## WELL RECORD & LOG Took 23 Fed

### OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

	OSE POD NO.	,	)		WELL TAG ID NO.	A		OSE CO47	FILE NO(S	S).				
	WELL OWNE				10	•••		PHO	NE (OPTIO	ONAL)				
12	WELL OWNE							CITY				STAT NM	E 88210	ZIP
-	WELL LOCATION (FROM GP:	S) 2311	DI	32 103	MINUTES 17 44		NDS 3604 N 3436 W			REQUIRED: (		TH OF A	A SECOND	
F	DESCRIPTIO		IG WELL LOCATION TO	STREET ADD	RESS AND COMMON	LANDM	IARKS – PLS	S (SEC	TION, TO	WNSHJIP, RA	NGE) WH	ERE AV	/AILABLE	
	LICENSE NO.		NAME OF LICENSED	DRILLER	Jason Maley					NAME OF V			COMPANY	
	DRILLING ST		DRILLING ENDED 12-14-23	DEPTH OF CO	MPLETED WELL (F	Γ)	BORE HOL	LE DEP 105'	TH (FT)	DEPTH WA	TER FIR	ST ENC	OUNTERED (F	T)
	COMPLETED	WELL IS:	ARTESIAN *add Centralizer info be	DRY HOL	LE SHALLO	W (UNC	ONFINED)			WATER LEVE PLETED WEL		/A	DATE STAT	IC MEASU -17-23
di tech in the far	DRILLING FLUID:		MUD MER CABI	ADDITIV						CHECK HER		HERE IF PITLESS ADAP		
F	DEPTH (feet bgl) BORE HOLE FROM TO DIAM			SING MATERIAL AND/OR GRADE clude each casing string, and		CONN	ASING NECTI YPE		INSIDE I	INSIDE DIAM.		CASING WALL THICKNESS (inches)		
-	0	95'	(inches)	note	" PVC SCH40		(add coupl	ling dia hread	meter)	(inche	es)	-	SCH40	(inc
F	95'	105'	6"	2	" PVC SCH40		Т	hread		2'			SCH40	
	,									OSE	on je	N 12	2024 PM	:\$2
I	DEPTH (	(feet bgl)	BORE HOLE	LIST ANNU	JLAR SEAL MATEI RANGE B			L PACI	K SIZE-	1	OUNT			IOD OF
CONTRACTOR OF THE PERSON OF TH	FROM	ТО	DIAM. (inches)	*(if using Ce	None Pulle			spacin	ig below)	(cub	ic feet)		PLAC	EMENT
_	OSE INTER	NAL USE	1 700										(Version 09	/22/202
Æ	NO. C-	477	4- POI	21	POD NO	·.	1		TRN	NU.	75		18	E 1 OF

	THE RESERVE OF THE PROPERTY AND	THE RESERVE OF THE PARTY OF THE	NAME OF STREET OF STREET, STRE		A REAL PROPERTY OF THE PROPERTY OF	STREW SUPPLEADING		The state of the s	organ Mitresting Libergrid Degrad state &
	DEPTH (f	eet bgl)	THICKNESS	COLOR AND TYPE OF MATERI		NIEG.	WATE		ESTIMATED YIELD FOR
	FROM	то	(feet)	INCLUDE WATER-BEARING CAVITI  (attach supplemental sheets to fu		ONES	(YES/I		WATER- BEARING ZONES (gpm)
	0	5'	5'	Brown sand with coa	arse rock		Y	<b>√</b> N	
	5'	30'	25'	Tan fine sand with co	earse rock		Y	<b>√</b> N	
	30'	105'	75'	Brown sand mixed v	vith clay		Y	<b>√</b> N	
							Y	N	
							Y	N	
4		1					Y	N	
4. HYDROGEOLOGIC LOG OF WELL							Y	N	
OF							Y	N	
507							Y	N	
JIC.1							Y	N	
TO							Y	N	
GEO							Y	N	
RO							Y	N	
HAT							Y	N	
4							Y	N	
							Y	N	
							Y	N	
							Y	N	
							Y	N	
							Y	N	
							Y	N	
	METHOD U	SED TO ES	STIMATE YIELD	OF WATER-BEARING STRATA:			AL ESTIMA		
	PUMI	) []A	IR LIFT	BAILER OTHER - SPECIFY: Dry	hole	WEI	LL YIELD	(gpm):	Dry
NOIS	WELL TEST			ACH A COPY OF DATA COLLECTED DUR ME, AND A TABLE SHOWING DISCHARG					
VISI	MISCELLA	NEOUS INI	FORMATION:	ande en troubele trouper ou de partiere resonance erreb trouper annotage troup reformatient en troube	or A should require that some expansion	TESTI I SERVICE	ulanima nasios konsul	HILLS GLIBRY	
PER									
3 SU						USE (	DII JAN I	.2 202	24 PM1:52
; RIC									
TEST; RIG SUPERVI	PRINT NAM	E(S) OF D	RILL RIG SUPER	RVISOR(S) THAT PROVIDED ONSITE SUPI	ERVISION OF WELL O	CONSTRU	CTION OTI	HER TH	IAN LICENSEE:
5. T		. ,		•					
	1/1		nices area controlle acceptant				a Republicano e e e e e e		<u> </u>
SIGNATURE	CORRECT F	RECORD O	F THE ABOVE I	FIES THAT, TO THE BEST OF HIS OR HER DESCRIBED HOLE AND THAT HE OR SHE 30 DAYS AFTER COMPLETION OF WELL I	WILL FILE THIS WE				
NA			N						
SIC.	,	MM	ملام	Joseph Maler	1		1/15/	24	
9		SIGNAT	URE OF DRILLE	ER / PRINT SIGNEE NAME /			$l_{\rm T}$	DATE	
	OGE D	IAF TION			And Company of the Co	WELL	CORP. C.	oc a:	
	R OSE INTERI E NO.	NAL USE		POD NO.	TRN NO		CORD & LO	JG (Ver	rsion 09/22/2022)
-	CATION				WELL TAG ID				PAGE 2 OF 2

Mike A. Hamman, P.E. State Engineer



swell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

#### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: File Nbr: 751178 C 04774

Well File Nbr: C 04774 POD1

Jan. 12, 2024

DALE WOODALL DEVON ENGERGY RESOURCES 205 E BENDER ROAD #150 HOBBS, NM 88240

Greetings:

The above numbered permit was issued in your name on 09/19/2023.

The Well Record was received in this office on 01/12/2024, stating that it had been completed on 12/14/2023, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 09/18/2024.

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

Maret Thompson (575) 622 - 6521



# WELL RECORD & LOG mesa Verde 6 Fed

### OFFICE OF THE STATE ENGINEER

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OSE POD NO	D. (WELL NO DD1	).)		WELL TAG ID NO	4		OSE FILE C04775	NO(S	5).			
WELL OWN Devon Ene	ER NAME(S) ergy Resou						PHONE (C	PTIC	ONAL)			
WELL OWN 205 E. Ber	ER MAILING nder Road						CITY Hobbs			STAT	88240	ZIP
WELL LOCATIO (FROM G	ON LA	DI	EGREES 32	MINUTES 14	SECON 26.89	044 N			REQUIRED: ONE TENT	TH OF A	A SECOND	4.0-11.11
`	LO	NGITUDE	-103 O STREET ADD	42 RESS AND COMMO	26.18 N LANDMA	an errope to the ser			BATT SESSEPHENDERS MEDICOLISMAN	ERE AV	/AILABLE	
LICENSE NO		NAME OF LICENSED	DRILLER	Jason Maley					NAME OF WELL DRI		COMPANY	
DRILLING S	STARTED	DRILLING ENDED 12-14-23	DEPTH OF CO	DMPLETED WELL (I	FT)		LE DEPTH (F	FT)	DEPTH WATER FIRS	T ENC		)
COMPLETE	D WELL IS:	ARTESIAN *add Centralizer info be		LE SHALLO	OW (UNCO	NFINED)		COMI	WATER LEVEL PLETED WELL D	гу	DATE STATIC	
	Centralizer info			ADDITI	VES – SPEC				CHECK HERE IF PITLESS INSTALLED			PTER I
DEPTH	DEPTH (feet bgl) BORE HOLE		(include each casing string, and		CON	ASING NECTION TYPE		CASING INSIDE DIAM. (inches)	CAS	CASING WALL THICKNESS (inches)		
0	95'	6"		2" PVC SCH40	1)		ling diameter hread	r)	2"		SCH40	1
95'	105'	6"	2	2" PVC SCH40		Т	hread		2"		SCH40	
									OSE OII JA	N 12	2024 PM1)	53
DEPTH	(feet bgl)	BORE HOLE	LIST ANN	ULAR SEAL MATI RANGE I	ERIAL ANI		L PACK SIZ	Œ-	AMOUNT		метно	
FROM	то	DIAM. (inches)	*(if using Co	None Pull	AND DESCRIPTION OF THE PERSON NAMED IN		e spacing be	low)	(cubic feet)		PLACE	VIEN I
OSE INTE	RNAL LISE						w	R-2	0 WELL RECORD	& LOC	G (Version 09/2	22/202
NO.C.	-47-	75-POD 14.32		POD N	0.			RN		3		

	DEPTH (f	eet bgl)		COL	OR AND TVI	PE OF MATERIAL	ENCOUNTERED -	1000	WATER	ESTIMATED YIELD FOR
	FROM	то	THICKNESS (feet)	INCLUDE	WATER-BE		OR FRACTURE ZON	ES	BEARING? (YES/NO)	WATER- BEARING ZONES (gpm)
	0	10'	10'			Red coarse sand			Y ✓N	
	10'	30'	20'		Tan	Fine sand wih coarse	rock		Y ✓N	
	30'	40'	10'		Red	d sand with white cal	iche		y ✓N	
	40'	60'	20'		Tar	sand with white cal	iche		y ✓N	
1895	60'	80'	20'		R	ed sand with small ro	ock		Y ✓N	
ı	80'	105'	25'	1	Ta	n fine sand with cali	che		Y <b>√</b> N	1
WEL									Y N	
OF									Y N	
50									Y N	
101									Y N	
99	-								Y N	
EO									Y N	
4. HYDROGEOLOGIC LOG OF WELL									Y N	
EX.									Y N	
4									Y N	
									Y N	
									Y N	
									Y N	
									Y N	
							- 6		Y N	
									Y N	
	METHOD U		STIMATE YIELD	OF WATER-BI		ATA: - SPECIFY:Dry			AL ESTIMATED LL YIELD (gpm):	0
7	WELL TES	TEST	RESULTS - ATT	ACH A COPY (	OF DATA CO	LLECTED DURING	G WELL TESTING, II ND DRAWDOWN O	NCLUDI VER TH	NG DISCHARGE E TESTING PERIO	METHOD, OD.
SION	- Companies de la Marie de la		anne de la companya de	raceanar retriction	nope, you and on parties		ACCOMPLETE AND ASSESSMENT	B-005/FSET		c rampounding/resource like to
TEST; RIG SUPERVI	MISCELLA	NEOUS IN	FORMATION:					OSE (	)II JAN 12 20	24 PM1:53
5. TEST	PRINT NAM	ME(S) OF D	ORILL RIG SUPE	RVISOR(S) THA	AT PROVIDE	D ONSITE SUPER	VISION OF WELL CO	NSTRU	CTION OTHER T	HAN LICENSEE:
6. SIGNATURE	CORRECT	RECORD O	OF THE ABOVE I	DESCRIBED HO	DLE AND THE COMPLET	IAT HE OR SHE W TON OF WELL DR	NOWLEDGE AND BI ILL FILE THIS WELI ILLING:	ELIEF, T	THE FOREGOING RD WITH THE ST	IS A TRUE AND ATE ENGINEER
F-0-1	OCE DITER	NAL USE		procedure de la confraction de	un de la la casa de la	a para tenegalibera patalla tenegalib	WR-20 W	ELL RE	CORD & LOG (V	ersion 09/22/2022)
	E NO.	777	405-	1	PO	D NO.	TRN NO.	7	51179	JOHN STILLIEUEL)
_	CATION 6	GOD.		.06.4	44	,	WELL TAG ID N	0.		PAGE 2 OF 2

Mike A. Hamman, P.E. State Engineer



well Office 1900 WEST SECOND STREET ROSWELL, NM 88201

## STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: File Nbr: 751179 C 04775

Well File Nbr: C 04775 POD1

Jan. 12, 2024

DALE WOODALL
DEVON ENERGY RESOURCES
205 E BENDER ROAD #150
HOBBS, NM 88240

Greetings:

The above numbered permit was issued in your name on 09/19/2023.

The Well Record was received in this office on 01/12/2024, stating that it had been completed on 12/14/2023, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 09/18/2024.

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

Sincerely,

Maret Thompson (575)622-6521



### WELL RECORD & LOG

### OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

LOCAT	WELL OWNER I	Resou				PHONE (OPTIO	ONAL)	CTATE	710
WELL	205 E Bender					Hobbs		NM 88240	ZIP
GENERAL AND WELL LOCATION	WELL LOCATION (FROM GPS)		TTUDE	GREES MINUTES 32 15' 103 44'	SECONDS 18.5" N 03.4" W	+ DATINA DEG	REQUIRED: ONE TENT	H OF A SECOND	
1. GENE	DESCRIPTION		G WELL LOCATION TO	STREET ADDRESS AND COMMON L	ANDMARKS – PL	SS (SECTION, TO	WNSHJIP, RANGE) WHE	ERE AVAILABLE	
	LICENSE NO. 1833		NAME OF LICENSED	DRILLER Jason Maley			NAME OF WELL DRII	LLING COMPANY sion Resources	
	DRILLING STAI		DRILLING ENDED 6-1-23	DEPTH OF COMPLETED WELL (FT) 105'	BORE HO	DLE DEPTH (FT) 105'	DEPTH WATER FIRS	T ENCOUNTERED (FT) Dry	)
N	COMPLETED W	ELL IS:	ARTESIAN *add Centralizer info be		(UNCONFINED)		WATER LEVEL PLETED WELL DI	y DATE STATIC	MEASURE
VTIO	DRILLING FLUI	D:	<b>✓</b> AIR	MUD ADDITIVES	S – SPECIFY:			Tail 100	
RM	DRILLING MET	HOD: 🗸	ROTARY HAM!	MER CABLE TOOL OTHER	R – SPECIFY:		CHECK INSTALI	HERE IF PITLESS ADA LED	PTER IS
NFO	DEPTH (fe	DEPTH (feet bgl) BORE HOLE		CASING MATERIAL AND/	OR C	ASING	CASING	CASING WALL	SLOT
DRILLING & CASING INFORMATION	FROM	ТО	DIAM (inches)	GRADE (include each casing string, at note sections of screen)	nd CON	NECTION TYPE pling diameter)	INSIDE DIAM. (inches)	THICKNESS (inches)	SIZE (inches
& C	0	100	6	2" PVC SCH 40		Thread	2"	SCH 40	-
JNG 4	100	105	6	2" PVC SCH 40		Thread	2"	SCH 40	.02
2. DRILI						7.5			
							OSE DOT JUN	1.3 <b>2</b> 023 pm2:05	3
	DEPTH (fe	et bgl)	BORE HOLE	LIST ANNULAR SEAL MATERI RANGE BY	AL AND GRAV	EL PACK SIZE-	AMOUNT	METHO	
ANNULAR MATERIAL	FROM	ТО	DIAM. (inches)	*(if using Centralizers for Artesian None pulled		ne spacing below)	(cubic feet)	PLACE	MENT
AR MA			1000						
NNOT			1						
3. A			4.						
FOR	OSE INTERN						0 WELL RECORD		22/2022)
FILE	OSE INTERN.		316.36	POD NO.	1	WR-2	NO. 1472	& LOG (Version 09/2	

	DEPTH (1	feet bgl)		COLOR AN	D TYPE OF MA	TERIAL EN	COUNT	ERED -	T	WA	LED	ESTIMATED
	FROM	то	THICKNESS (feet)	INCLUDE WATE		VITIES OF	R FRACT	URE ZONES	;	BEAR (YES	ING?	YIELD FOR WATER- BEARING ZONES (gpm)
	0	10	10		Red sand/W	hite Caliche				Y	✓ N	u .
	10	20	10		White 0	Caliche				Y	✓ N	
	20	80	60		Light Tan	fine sand		-		Y	✓ N	
	80	105	25		Brown f	ine sand			- 1	Y	✓ N	
				1						Y	N	
1			1					V - 12		Y	N	
HYDROGEOLOGIC LOG OF WELL										Y	N	
OF								4 11 11		Y	N	
50		1								Y	N	
ICL									T- 4	Y	N	
00										Y	N	
EOI							-1	11 11 11 11 11	17	Y	N	
ROG										Y	N	
IAD									. "	Y	N	1
4. F										Y	N	
										Y	N	
								77.74		Y	N	
								377	1 1	Y	N	
			1000							Y	N	
			7	-						Y	N	
								3		Y	N	
	METHOD U			OF WATER-BEARIN	G STRATA: THER – SPECIF	r:				L ESTIN	MATED (gpm):	0
z	WELL TES	T TEST	RESULTS - ATT	ACH A COPY OF DA'	TA COLLECTED	DURING IARGE AN	WELL TE	STING, INC	LUDIN ER THE	G DISC	HARGE NG PERIO	METHOD, OD.
VISION	MISCELLA		FORMATION:									
5. TEST; RIG SUPERV								U2	t UII	JUN I	, D 2021	3 PM2:08
LEST	PRINT NAM	ME(S) OF D	RILL RIG SUPER	VISOR(S) THAT PRO	OVIDED ONSITE	SUPERVI	SION OF	WELL CON	STRUC	TION O	THER T	HAN LICENSEE:
5.1	Jason Male											
SIGNATURE	CORRECT	RECORD (	OF THE ABOVE D	TIES THAT, TO THE I DESCRIBED HOLE AT 0 DAYS AFTER COM	ND THAT HE O	R SHE WIL	L FILE T	E AND BEL HIS WELL I	IEF, TH RECORI	IE FORI D WITH	EGOING THE ST	IS A TRUE AND ATE ENGINEER
6. SIGN		nV	Mala	1	Jason Maley		_	1 <u>- 1</u>		6-	7-23	
	T <sub>L</sub>	signa'	TURE OF DRILLE	R / PRINT SIGNEE	NAME					-	DATE	
FO	R OSE INTER	NAL USE	V			P .	P. VE	WR-20 WE	LL REC	ORD &	LOG (V	ersion 09/22/2022)
	ENO.	4746	)	- >	POD NO.	l		TRN NO.	_	203		
LO	CATION		316.36	343		4	WELL T	AG ID NO.	N	A		PAGE 2 OF 2

PAGE 1 OF 2

WELL TAG ID NO.



### WELL RECORD & LOG

### OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

	OSE POD NO	. (WELL NO	.)	WELL TAG ID NO.	OSI	E FILE NO(	S).	and the amplitude of the amplitude of the	
	C-047	112 P	P 400				C-4	712	
	WELL OWN	ER NAME(S)	0 1	0	PH	ONE (OPTI	ONAL)		
	Har	Vard	Retroleur	2 Company					
	WELL OWN		936		CIT		well	NM 8	8ZOZ
	WELL			GREES MINUTES SECO	NDS		1		NUMBER OF SAME AND ADDRESS OF THE PARTY OF T
	LOCATIO	Litt	TITUDE 3	2 17 58,	2 "		REQUIRED: ONE TENT	TH OF A SECOND	
	(FROM GP	LOI	NGITUDE /O	3 45 05.	8 W 1	DATUM REG	QUIRED: WGS 84		
	DESCRIPTION	ON RELATIN	NG WELL LOCATION TO	STREET ADDRESS AND COMMON LANDM	IARKS – PLSS (SE	CTION, TO	WNSHJIP, RANGE) WH	ERE AVAILABLE	
Ī	LICENSE NO		NAME OF LICENSED	DRILLER			NAME OF WELL DRI	LLING COMPANY	anii saaran ee ujin
	183	3	Ja	San Maley			Visicon	Resources	
Ī	DRILLING S	TARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DE	EPTH (FT)	DEPTH WATER FIRS	ST ENCOUNTERED (FT	)
	3191	23	3 8 23	55	5	5	Dri	4	
	COMPLETE	WELL IS:	ARTESIAN *add Centralizer info be	DRY HOLE SHALLOW (UNCO	ONFINED)		WATER LEVEL PLETED WELL	DATE STATIC	MEASURE
	DRILLING F	LUID:	AIR	MUD ADDITIVES – SPE	CIFY:		4.4		
	DRILLING M	ETHOD:	ROTARY HAMM	MER CABLE TOOL OTHER - SPE	CIFY:		CHECK INSTAL	HERE IF PITLESS ADA LED	PTER IS
	DEPTH (feet bgl) BORE HOLE			CASING MATERIAL AND/OR	CASIN	G	CASING	CASING WALL	SLOT
	FROM	то	DIAM (inches)	GRADE (include each casing string, and note sections of screen)	CONNECT TYPE (add coupling d	TION	INSIDE DIAM. (inches)	THICKNESS (inches)	SIZE (inches
3	0	45	6	7" one sch40	1	ad	7"	sch 40	-
	45	55	6	2" Puc sch40	Three	ad	7"	Sch 40	.02
	,					1			
1		7	V			71			
			1						1
1				1 1	1 1		USE DII APR	4 2023 PMI 123	
		1							
				1771					
		THE WEST THE		L HOT ANNUH AN CEAN MATTER.	D CRAVEL E	OV GIZE			
	DEPTH	(feet bgl)	BORE HOLE	LIST ANNULAR SEAL MATERIAL AN RANGE BY INTER		CK SIZE-	AMOUNT	METHO	
	FROM	ТО	DIAM. (inches)	*(if using Centralizers for Artesian wells	indicate the space	ing below)	(cubic feet)	PLACE	MENT
			1			16 10			
				Alaca Otha	1 000	1-01	110000		
				None Puller	1 FTV	1 41	DAGGE		
								-	

LOCATION

23.31.14.143

	DEPTH (f	TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONE (attach supplemental sheets to fully describe all units)	S WATER BEARING? (YES / NO)	YIELD FOR WATER- BEARING ZONES (gpm)
	5	25	25	White Caliche	Y N	
1	25	55	30	Red Sand And Caliche	Y N	
		0.0			Y N	
					Y N	
					Y N	
	11.				Y N	1
		10			Y N	
					Y N	
			1		Y N	
					Y N	
					Y N	
					Y N	
					Y N	
				Land Control of the C	Y N	-
1					Y N	
					Y N	-
					Y N	-
			1		Y N	
					Y N	
					Y N	-
	ETHODIL	CED TO E	CTIMATE VIELD	OF WATER-BEARING STRATA:	Y N TOTAL ESTIMATED	
M	PUMF		5 Sec. 1	BAILER OTHER - SPECIFY:	WELL YIELD (gpm)	
W	VELL TEST	TEST STAR	RESULTS - ATTA	ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INC ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OV	CLUDING DISCHARGE ER THE TESTING PER	E METHOD,
M	ISCELLA?	NEOUS IN	FORMATION:			
M					SE DIT APR 4 202	3 PM[;23
PF	RINT NAM	IE(S) OF D	PRILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CON	ISTRUCTION OTHER	THAN LICENSEE
	ORRECT F	RECORD C	OF THE ABOVE D	IES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BEL ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL D DAYS AFTER COMPLETION OF WELL DRILLING:		
CC Al	7	MA SIGNA	CLIP OF DELLE	R / PRINT SIGNEE NAME	3/24/6	23

POD NO.

Released to Imaging: 12/3/2024 1:50:51 PM

LOCATION

FILE NO. C - 4712 - 700 4

WELL TAG ID NO.

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

## STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr:

743189

File Nbr:

C 04712

Well File Nbr: C 04712 POD4

Apr. 04, 2023

VERTEX RESOURCES
P.O. BOX 936
ROSWELL, NM 88202

#### Greetings:

The above numbered permit was issued in your name on 02/21/2023.

The Well Record was received in this office on 04/04/2023, stating that it had been completed on 03/09/2023, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 02/21/2024.

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

Sincerely,

Maret Thompson (575)622-6521



NO	OSE POD NO. (WE C-04672 POD		.)		WELL TAG ID NO.			OSE FILE NO(S C-04672	8).		
OCATIO	WELL OWNER N. OXY US INC	AME(S)						PHONE (OPTIO	ONAL)		
AND WELL LOCATION	WELL OWNER M PO BOX 4294	AILING	ADDRESS					CITY HOUSTON		TX 77210	ZIP
GENERAL AND	WELL LOCATION (FROM GPS)	LO	TITUDE	32 -103	MINUTES 14 43	SECON 41.5 43.4	51 N 13 W	* DATUM REC	REQUIRED: ONE TENT		
1. GE	PROXIMITY :		NG WELL LOCATION TO	STREET ADD	RESS AND COMMON	LANDMA	ARKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVAILABLE	
	LICENSE NO. WD-1184		NAME OF LICENSED		ELL SOUTHERL	AND			NAME OF WELL DRI WEST TEXAS	LLING COMPANY WATER WELL SEI	RVICE
	DRILLING STAR 09/01/202		DRILLING ENDED 09/01/2022	DEPTH OF CO	OMPLETED WELL (FT 110	)	BORE HO	LE DEPTH (FT)		ST ENCOUNTERED (FT)	
NO	COMPLETED WE	LL IS:	ARTESIAN	✓ DRY HO	LE SHALLOV	W (UNCO	NFINED)		STATIC WATER LEV	'EL IN COMPLETED WE N/A	ELL (FT)
AATIC	DRILLING FLUID		✓ AIR	MUD	ADDITIV			R – SPECIFY:			
OR	DRILLING METH		ROTARY	HAMME			OTHE	R - SPECIFY:		I	T
CASING INFORMATION	FROM	DEPTH (feet bgl)  FROM TO DIAM (inches)		(include	MATERIAL AND GRADE each casing string, sections of screen)		CON	ASING NECTION TYPE ling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
8				NO (	CASING IN HOLE						
DRILLING											
7											
									05E 011 5E	26 2022 m3:2	8
	DEPTH (fee	t bgl)	BORE HOLE	I	IST ANNULAR SE	EAL MA	TERIAL	AND	AMOUNT	метно	D OF
IAL	FROM	ТО	DIAM. (inches)		AVEL PACK SIZE-				(cubic feet)	PLACEN	
ANNULAR MATERIAL					N	J/A					
NULAR											
3. AN											

POD NO.

TRN NO.

WELL TAG ID NO.

PAGE 1 OF 2

	DEPTH (f	eet bgl)		COLO	R AND TYPE OF MA	TERIAL E	NCOUN	TERED -		WA	TER	ESTIMATED YIELD FOR
	FROM	то	THICKNESS (feet)	INCLUDE V	VATER-BEARING CA	VITIES O	R FRAC	TURE ZONES	´	BEAF	RING? / NO)	WATER- BEARING ZONES (gpm)
	0	10			RED SAND	, TOPSOIL				Y	✓ N	
	10	20			CALI	CHIE				Y	✓ N	
	20	37			RED SAN	DY CLAY				Y	✓ N	
	37	40			SANDS	STONE				Y	✓ N	
	40	50			LIGHT RED S	ANDY CL.	AY			Y	✓ N	
Г	50	78			RED CLAY W	SANDSTO	ONE			Y	✓ N	
4. HYDROGEOLOGIC LOG OF WELL	78	88			RED (	CLAY				Y	✓ N	
OF V	88	91			SANDS	STONE				Y	✓ N	
90	91	93			RED (	CLAY				Y	✓ N	
ICT	93	100			SANDS	STONE				Y	✓ N	
00°	100	110			RED SAN	DSTONE				Y	✓ N	
EOI										Y	N	
ROG										Y	N	
IVD										Y	N	
4. F										Y	N	
										Y	N	
										Y	N	
										Y	N	
										Y	N	
										Y	N	
										Y	N	
	METHOD U	SED TO ES	STIMATE YIELI	O OF WATER-BEA	ARING STRATA:				TOTAL	ESTI	MATED	
	PUMI	)A	IR LIFT	BAILER [	OTHER – SPECIFY	:DRY HO	DLE		WELL	YIELI	O (gpm):	0.00
N	WELL TES				DATA COLLECTED LE SHOWING DISCH							
/ISION	MISCELLA	NEOUS IN	FORMATION:									
TEST; RIG SUPERVI												
SUP												
RIG								038	E DIT SE	EP 2	6 2022	PM31213
ST;	DDDITNA	(E(O) OF D	DILL DIC CURE	DVICOD(C) THAT	DROVIDED OVERTE	CLIDEDAI	CION O	WELL CON	CTRUCTI	ONLO	THER T	HANI LICENCEE.
5. TI				KVISOK(S) IHAI	PROVIDED ONSITE	SUPERVI	SION O	WELL CON	STRUCTI	ONC	THEK I	HAN LICENSEE:
	RUSSELLS	SOUTHER	LAND									
SE.	RECORD O	F THE ABO	VE DESCRIBEI	WELL. LALSO	ST OF MY KNOWL	WELL TA	G, IF RE	QUIRED, HA	S BEEN I	NSTA	ALLED A	ND THAT THIS
LT.	WELL-RECO	ORD WILL	ALSO BE FILED	WITH THE PERI	MIT HOLDER WITHI	N 30 DAYS	AFTER	THE COMPL	ETION O	FWE	LL DRIL	LING.
6. SIGNATURE	V	08.	111	RUS	SSELL SOUTHERL	AND				09/0	1/2022	
9	Kussu	SIGNAT	URE OF DRILL	ER / PRINT SIG	NEE NAME		_				DATE	
FO	R OSE INTER	NAI IISE						WR-20 WE	I RECO	RD &	LOG (V	ersion 04/30/2019)
	ENO. C-	1672			POD NO.	i		TRN NO.	734	In	14	201011 04/30/2019)
											( ).	

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

## STATE OF NEW MEXIC OF SWELL, NM 88201 OFFICE OF THE STATE ENGINEER

Trn Nbr: 734614 File Nbr: C 04672

Well File Nbr: C 04672 POD 1

Oct. 04, 2022

BEAUX JENNINGS ENSOLUM LLC 601 N. MARIENFELD ST SUITE 400 MIDLAND, TX 79701

#### Greetings:

The above numbered permit was issued in your name on 09/22/2022.

The Well Record was received in this office on 09/26/2022, stating that it had been completed on 09/01/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 09/22/2023.

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

Clencer

Sincerely,

Vanessa Clements (575)622-6521

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

## STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 734614 File Nbr: C 04672

Well File Nbr: C 04672 POD 1

Oct. 04, 2022

WADE DITTRICH
OXY USA INC.
P.O. BOX 4294
HOUSTON, TX 77210

Greetings:

The above numbered permit was issued in your name on 09/22/2022.

The Well Record was received in this office on 09/26/2022, stating that it had been completed on 09/01/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 09/22/2023.

Clemen

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

Sincerely,

Vanessa Clements (575)622-6521



**USGS Home Contact USGS** Search USGS

**National Water Information System: Web Interface** 

**USGS** Water Resources

Groundwater United States GO

#### Click to hideNews Bulletins

• Explore the NEW USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs

site\_no list =

• 321609103445901

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 321609103445901 23S.31E.26.34411

Eddy County, New Mexico

Latitude 32°16'11.9", Longitude 103°45'01.2" NAD83

Land-surface elevation 3,451.00 feet above NGVD29

The depth of the well is 365 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Dewey Lake Redbeds (312DYLK) local aquifer.

#### **Output formats**

			Output formats	
Table of data				
Tab-separated data	<u>a</u>			
Graph of data				
Reselect period				
	?	Water	Water	

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1959-02-04		D	62610		3194.13	NGVD29	Р	Z		
1959-02-04		D	62611		3195.83	NAVD88	Р	Z		
1959-02-04		D	72019	256.87			Р	Z		
1972-09-20		D	62610		3200.53	NGVD29	1	Z		
1972-09-20		D	62611		3202.23	NAVD88	1	Z		
1972-09-20		D	72019	250.47			1	Z		
1988-03-17		D	62610		3201.98	NGVD29	1	S		
1988-03-17		D	62611		3203.68	NAVD88	1	S		
1988-03-17		D	72019	249.02			1	S		
2013-01-17	00:00 UTC	m	62610		3349.45	NGVD29	Р	S	USGS	
2013-01-17	00:00 UTC	m	62611		3351.15	NAVD88	Р	S	USGS	
2013-01-17	00:00 UTC	m	72019	101.55			Р	S	USGS	

F	xn	la	na	ti	on

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day

Section	Code	Description
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	Р	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	А	Approved for publication Processing and review completed.

<u>Questions or Comments</u> <u>Help</u>

Data Tips

**Explanation of terms** 

Subscribe for system changes

Accessibility FOIA Privacy Policies and Notices

<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u> **Title: Groundwater for USA: Water Levels** 

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u>

Page Last Modified: 2024-09-05 18:12:37 EDT

0.31 0.22 nadww01



STATE ENGINEER OFFICE ROSVEY

1. GENERAL AND WELL LOCATION	WELL OWN P.O. B. WELL LOCATIO (FROM GI	EX MAILING A  EX 10  EX	DE TUDE 32.  HTUDE 103.  WELL LOCATION TO 18.  NAME OF LICENSED.	OREES MINUTES SECTION 12.9/  45 03.6/  STREET ADDRESS AND COMMON LANDI  MM / M. / E N/  DRILLER  SIZUACIO  DEPTH OF COMPLETED WELL (FT)  700-0	PHONE  43 CITY  JA  ONDS  N -ACCT.  W DATU  MARKS - FLSS (SECTION  ///// //// BORE HOLE DEPTH  700'-0	NAME OF WELL SIGNAL  SIGNAL  (PT) DEPTH WATER I  575- STATIC WATER I	STATE  STATE  88  ENTH OF A SECOND  WHERE AVAILABLE  PLANT COMPANY  DRILLING COMPANY  DRILLING COMPANY  DRILLING COMPANY  LEVEL IN COMPLETE	Coust. LLC			
8	COMPLETE	D WELL 13:	ARTESIAN	DRY HOLE SHALLOW (UNC	ONFINED)	430	2:-0				
MAT	DRILLING FLUID: DAIR DMUD DADDITIVES - SPECIFY:  DRILLING METHOD: PROTARY DEAL TOOL OTHER - SPECIFY:										
DRILLING METHOD: PROTARY PANAMER CABLE TOOL OTHER - SPECIFY:  DEPTH (feet bgl) RODE HOLE CASING MATERIAL AND/OR CASING CASING WALL COME.											
CASING INFORMATION	FROM	TO	BORE HOLE DIAM (inches)	GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE	CASING INSIDE DIAM (inches)	CASING WAI THICKNES (inches)				
45	0	560	10	PVC Certa-		- 6	DR-17	BbNK			
DRILLING	560	620	10	Puc	Certa Lok	sk la DR-1		1032 Sercen			
4	620	680	10	PVC	Certolok	6	DRIT	BLANK			
<u> </u> 	680	700	10	Puc	lesta los	k 6	DR-17	103250100			
נ	DEPTH FROM	(feet bgl)	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL M. GRAVEL PACK SIZE-RANG		AMOUNT	I	THOD OF CEMENT			
TERL	0	20	10	3/9 bentonite	hole plug	lepa	195 al	Avity			
ANNULAR MATERIAL	67	700	10	3/8 per grav	rel	5401	sare	inty			
ANNU											
3.7					· · · · · · · · · · · · · · · · · · ·	<del></del>					
FOR	OSE INTER	NAL USE	<u></u> .	<u> </u>		WR-20 WELL RECORD	D & LOG (Version (	06/08/2012)			
FILE	NUMBER		348	POD NUMBER	1	TRN NUMBER L	491413				
1 100	• 7401	C,	•	235.31E.2	16.3-4-1	Livesto	٠	oriona l			

					<u>-</u>		<del></del>
	DEPTH (I	TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	BEAF	TER UNG? /NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
]	n	<u></u>	10	Barris	ΠY	□ N	
	D 10	15	5	BROWN SAND	O Y	- X-	
1	15		1/0	White caliche BROWN Sandstone	□ Y	ŪN	
		125	190	1. January	- DY	DN	<del></del>
	125.	315		Red stele	(C) Y		10
	315	700	385	Red Sand Stone	□ Y	אם	10
ELL						Пи	<del></del> _
<u>}</u>				<u> </u>			
0.5				<u></u>	□ Y	_ N	
4 HYDROGEOLOGIC LOG OF WELL				·	□ Y	א□	
CiC		400			□Y	ПN	
3					ΩY	אם	<u> </u>
<b>X</b>					□ Y	א□	
80					□Y	ש□	
HYI					DΥ	Пи	
4					ΠY	וא□	
					□ Y.	□и	
,					DΥ	□N	
					ΟY	Пи	<del></del>
					□ Y·	וא□	-,
	<u> </u>				□ Y	באם	R0 R17
				<del></del>			
	METHOD I	SED TO ES	TIMATE YIELD	OF WATER-BEARING STRATA: PUMP	TOTAL ESTIN		:100
	AIR LIFT				WELL YIELD	-	P
<u></u> _	ALK LIF		BAILER	OTHER - SPECIFY:		<u></u> _	
NO	WELL TES	TEST I	RESULTS - ATT/ FTIME, END TIME	ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCI ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVE	LUDING DISC R THE TESTIN	HAROE N IO PERIO	ŒТЙ <b>ӨР</b> , D. Э̂♀
VISI	MISCELLA	NEOUS INF	ORMATION:				
25							, m
DS:	no	U.P					
E			•	•			ļ
5. Test; Ric Supervision	DDINT NAM	(R/S) OR DE	OH I DIO SHIPED	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONS	TRUCTION O	ודר פיוודו	AN I ICENSER.
5. T	IIIIVI IVA	12(0) 01 121	CLED ROO OUT DR	'h	1,001,0110		AN LICENSEE.
	no	ne	<u></u>				
				ES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELLE			
SIGNATURE				ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RE DDAYS AFTER COMPLETION OF WELL DRILLING:	CORD WITH	THE STAT	te engineer
T¥.	$\wedge$	Λ	1 ~		, /		
ğ			Muan	John Sirman 11	1/2/13	7	
8		SIGNATI	DE OF DELLE	R / PRINT SIGNE NAME	12/12	D ATTE	<del></del>
=	//_	PIONAL	AE OF DRILLE	A / FRANT SIGNED NAME		DATE	
FOR	OSE INTERI	NAL USE		WR-20 WEL	L RECORD &	LOG (Ver	sion 06/08/2012)
FILI	NUMBER	C-2	348	POD NUMBER TRN NUMBE	ir 491	413	
7.00	477031		- <del></del>	235 31F, 200 344-1 11:0	~630		FIGEROFF



### WELL RECORD & LOG

### OFFICE OF THE STATE ENGINEER

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0SE DIT APR 27 2023 PKS:24

NC	OSE POD NO. (W POD 1 (TW-1		)		WELL TAG ID NO N/A	).		OSE FILE NO C-4726	(S).			
CATIC	WELL OWNER N Devon Energy							PHONE (OPT 575-748-18				
ľ												
GENERAL AND WELL LOCATION	WELL OWNER M 6488 7 Rivers		ADDRESS					Artesia		NN NN	ATE 1 88210	ZIP )
AND	WELL	T	DI	EGREES 32	MINUTES 20	SECON 23.	65	* ACCLIBAC	Y REQUIRED: O	NE TENTU O	E A SECOND	
ERAL	LOCATION (FROM GPS)		NGITUDE	103	43	47.:	N		EQUIRED: WGS		ASECOND	
EZ	DESCRIPTION	_	G WELL LOCATION TO	O STREET ADD	DESS AND COMMO	NIANDM	ADVC DI	SS (SECTION TO	OWNSHIID DAN	CE) WHERE	AVAII ADI E	
1.6	NW L2 Sec.1			O UTREET ADD	ALUS AND COMMO	IV LANDIN.	AIGCS - I E	ob (obe from, f	ownording, Kod	iol) william	AVAILABLE	
	LICENSE NO. 1249		NAME OF LICENSEE		Jackie D. Atkins	s			1		G COMPANY ring Associate	s, Inc.
	DRILLING STAR 4/17/23		DRILLING ENDED 4/17/23		OMPLETED WELL (For ary Well Mater		BORE HO	LE DEPTH (FT) ±55	DEPTH WA		NCOUNTERED (	FT)
z	COMPLETED W	ELL IS:	ARTESIAN	✓ DRY HO	LE SHALLO	OW (UNCO	NFINED)		C WATER LEVE MPLETED WELL			TIC MEASURED /25/23
TIO	DRILLING FLUI	D:	AIR	MUD	ADDITIV	VES – SPEC	CIFY:					
RMA	DRILLING METI	HOD:	ROTARY HAM	MER CAE	BLE TOOL 🗸 OTH	HER – SPEC	CIFY: ]	Hollow Stem	Auger	CHECK HER INSTALLED	E IF PITLESS A	DAPTER IS
NFC	DEPTH (fee	et bgl)	BORE HOLE	CASING	MATERIAL ANI	D/OR		ASING	CASIN	IG C	ASING WAL	L SLOT
CASING INFORMATION	FROM	ТО	DIAM (inches)		GRADE each casing string sections of screen		CON	NECTION  FYPE  bling diameter)	INSIDE D	IAM.	THICKNESS (inches)	
72.3	0	55	±6.25		Soil Boring		(aud cou					-
iG &												
Į,												
DRILLING												
2. D												
			1					•		•		
	DEPTH (fee	et hal)	DODE HOLE	1	ICT ANDIU AD C	EAL MA	TEDIAL	AND	1	MINIT	MET	HOD OF
1	<u> </u>		BORE HOLE DIAM. (inches)		IST ANNULAR S AVEL PACK SIZE					OUNT c feet)	1	HOD OF CEMENT
ANNULAR MATERIAL	FROM	ТО				N/A						
\TE						IV/A			-			
M	-											
LAR									-			
5											-	
				-								
6.				-								
FOR	OSE INTERNA	L USE						WR-	20 WELL RE	CORD & LO	OG (Version 0	1/28/2022)
FILE	ENO. C-C	77	26		POD NO	O.		TRN	NO. 74	15/69		
LOC	CATION 23	5.3	1E.01.1	14				WELL TAG	ID NO.		PA	GE 1 OF 2

	DEPTH (	feet bgl)		COLOR AN	D TUDE OF MATE	DIAL EX	ICOL DITERED			ESTIMATED
	FROM	то	THICKNESS (feet)	INCLUDE WATE	D TYPE OF MATE  R-BEARING CAV  plemental sheets to	ITIES OF	R FRACTURE ZONE	ES	WATER BEARING? (YES / NO)	YIELD FOR WATER- BEARING ZONES (gpm)
	0	9	9	Sand, medium-fi	ne grained, poorly,	graded, u	nconsolidated, brown		Y ✓N	
	9	14	5	Sand, medium-fin	e grained, poorly, gr	aded, ser	ni-consolidated, brow	'n	Y ✓N	
	14	20	6	Sand, medium-	fine grained, poorly	, graded,	unconsolidated, tan		Y ✓N	
	20	45	25	Sand, fine	grained, poorly, gra	ded, unce	onsolidated, tan		y ✓n	
	45	55	10	Clay,	stiff, with very-fine	silt, redd	lish brown		Y ✓N	
T									Y N	
4. HYDROGEOLOGIC LOG OF WELL									Y N	
OF									Y N	
507									Y N	
COL									Y N	
070									Y N	
GEO									Y N	
)RO									Y N	
HAI									Y N	
4.									Y N	
									Y N	
									Y N	
									Y N	
									Y N	
									Y N	
									Y N	
	METHOD U	JSED TO ES	STIMATE YIELD	OF WATER-BEARING	G STRATA:				AL ESTIMATED	
	PUM	Р ПА	IR LIFT	BAILER OT	HER – SPECIFY:			WEI	LL YIELD (gpm):	0.00
NO	WELL TES			ACH A COPY OF DAT ME, AND A TABLE SH						
5. TEST; RIG SUPERVISION	MISCELLA	NEOUS IN	10	emporary well materia elow ground surface(b ) omb Raider 1 Fed 1	al removed and so	il boring l benton	ne emps ten feet og	s to su	tings from total derface.	
LES	PRINT NAM	ME(S) OF D	RILL RIG SUPER	RVISOR(S) THAT PRO	VIDED ONSITE S	JPERVIS	SION OF WELL CO	NSTRU	CTION OTHER TH	IAN LICENSEE:
'n	Shane Eldri	dge, Came	ron Pruitt							
6. SIGNATURE	CORRECT AND THE F	RECORD O PERMIT HO	F THE ABOVE I	FIES THAT, TO THE B DESCRIBED HOLE AN 80 DAYS AFTER COM	D THAT HE OR S	HE WIL	L FILE THIS WELL			
S. SIGN	Jack Ati	kins		Jac	ckie D. Atkins		_		4/26/23	
		SIGNAT	URE OF DRILLE	ER / PRINT SIGNEE	NAME				DATE	
FO	R OSE INTER	NAL USE					WR-20 WI	ELL RE	CORD & LOG (Ve	rsion 01/28/2022)
FIL		0472			POD NO.		TRN NO.	70	15169	
LO	CATION 7	35.3	IE. DI.	114			WELL TAG ID NO			PAGE 2 OF 2



NOI	OSE POD NO. C-04663 PC		0.)		WELL TAG ID NO.			OSE FILE NO C-04663	O(S).				
OCATI	WELL OWNE OXY US IN		)					PHONE (OP	TIONAL)				
GENERAL AND WELL LOCATION	WELL OWNE PO BOX 42		G ADDRESS					CITY HOUSTON	١	STATE TX 7	7210	ZIP	
ND	WELL	T	DE	GREES	MINUTES	MINUTES SECONDS							
LA	LOCATION	N LA	TITUDE	32	21	12.4	43 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND					
ERA	(FROM GPS	S) LO	NGITUDE	-103	42	43.	74 W	* DATUM R	EQUIRED: WGS 84				
GEN	DESCRIPTIO	N RELATI	NG WELL LOCATION TO	STREET ADDR	ESS AND COMMON	LANDM	ARKS – PLS	S (SECTION, T	OWNSHJIP, RANGE) WH	ERE AVAILAB	LE		
1.0	PROXIMIT	Y 31											
	LICENSE NO.		NAME OF LICENSED						NAME OF WELL DR				
	WD-1	184		RUSSE	LL SOUTHERI	LAND			WEST TEXAS	S WATER WI	ELL SEF	RVICE	
	DRILLING ST 09/01/2		DRILLING ENDED 09/01/2022	DEPTH OF COM	MPLETED WELL (FT 110	(1)	BORE HO	LE DEPTH (FT)	FT) DEPTH WATER FIRST ENCOUNTERED (FT)				
7	COMPLETED	WELL IS:	ARTESIAN	✓ DRY HOLI	E SHALLO	W (UNCO	NFINED)	STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A					
LIO	DRILLING FL	UID:	✓ AIR	MUD	ADDITIV	ES – SPEC	CIFY:						
CASING INFORMATION	DRILLING MI		✓ ROTARY	☐ HAMMER	CABLE TO	OOL	OTHE	R – SPECIFY:					
FOR	DEPTH	forthal)	T	CASINGA	AATERIAL AND	/OD			T	T		Г	
GIN	DEPTH (	TO	BORE HOLE DIAM	CASING	MATERIAL AND GRADE	/OK		ASING NECTION	CASING INSIDE DIAM.	CASING V		SLOT SIZE	
SIN		, ,	(inches)		ach casing string, ections of screen)	and	7	TYPE	(inches)	(inche		(inches)	
& CA	note sections of screen) (add coupling diameter					ning diameter)							
				NO CA	ASING IN HOLE	3							
2. DRILLING													
DRI													
4													
-										-	-		
	DEPTH (	feet bgl)	BORE HOLE	LIS	T ANNULAR SE	AL MA	TERIAL A	AND	AMOUNT		METHO	D OF	
IAL	FROM	ТО	DIAM. (inches)	GRAV	EL PACK SIZE-	RANGE	BY INTE	ERVAL	(cubic feet)	F	LACEM	IENT	
FER													
MAJ	N/A							OSE DII SEP	20.2022	M1:31			
ANNULAR MATERIAL									<b>6</b> 00 011 001	20 2022	-1/51		
MIL													
AN													
3.									-				
174				L									
	OSE INTERN				Pan III				20 WELL RECORD		ion 04/3	0/19)	
FILE	NO. C-C	1466	5	1 2	POD NO	. (		TRN	12090	7	D. C.	1.00.0	
LOC	ATION C	JO. 5	32E,31.3.	1.6				WELL TAG	ID NO.		PAGE	1 OF 2	

	DEPTH (f	feet bgl)		COLOR AN	D TYPE OF MA	TEDIAL E	NCOLINI	TEDED		WA	CED	ESTIMATED
	FROM	то	THICKNESS (feet)	INCLUDE WATE		AVITIES O	R FRAC	TURE ZONES	S	WAT BEAR (YES	ING?	YIELD FOR WATER- BEARING ZONES (gpm)
	0	10			RED	SAND				Y	✓ N	ZONES (gpin)
	10	14				ICHIE				Y	✓ N	
	14	17			RED	SAND				Y	✓ N	
	17	40			RED SAN	DY CLAY				Y	✓ N	
	40	90			SAND	STONE				Y	✓ N	
٦	90	97			RED	CLAY				Y	✓ N	
VEL	97	100			SAND	STONE				Y	✓ N	
4. HYDROGEOLOGIC LOG OF WELL	100	110		]	RED CLAY WI	TH SANDS	TONE			Y	✓ N	
90										Y	N	
CL										Y	N	
90										Y	N	
EOI										Y	N	
806										Y	N	
IXD										Y	N	
4. F										Y	N	
										Y	N	
										Y	N	
									_	Y	N	
										Y	N	
										Y	N	
						-				Y	N	
	METHOD U	ISED TO E	STIMATE YIELD	OF WATER-BEARING	G STRATA:				TOTA	AL ESTIN	ATED	
	PUMI				THER – SPECIF	Y:DRY HO	DLE			L YIELD		0.00
NOIS	WELL TES			ACH A COPY OF DAT ME, AND A TABLE SH								
VISIO	MISCELLA	NEOUS IN	FORMATION:									
ER												
TEST; RIG SUPERVI								NSE	ours	SEP 20	2022 P	M1:31
RIG								0.00				
ST;	DDDITA	E(C) OF F	DILL DIC CURE	I WOOD (E) THE T PRO	THE OVER	CURERIU	TON O	THE LOON	CEDIL	TTON	THED T	I AND LOTE HOLD
5. TI				VISOR(S) THAT PRO	VIDED ONSITI	E SUPERVI	SION OI	· WELL CON	SIKUC	TION O	THEK II	IAN LICENSEE:
	RUSSELL S	SOUTHE	RLAND									
	BY SIGNIN	G BELOW	, I CERTIFY TH	AT TO THE BEST O	F MY KNOWI	EDGE AN	D BELIE	EF, THE FOR	EGOIN	NG IS A	TRUE A	ND CORRECT
6. SIGNATURE	WELL RECO	F THE ABO ORD WILL	OVE DESCRIBED ALSO BE FILED	WELL A ALSO CERT WITH THE PERMIT F	TFY THAT THE HOLDER WITH	WELL TAIN 30 DAYS	G, IF RE S AFTER	QUIRED, HA THE COMPI	S BEE	N INSTA I OF WE	LLED AT LL DRIL	ND THAT THIS LING.
IAI		0	,11									
SIG	King	101	auth. V.	RUSSEL	L SOUTHER	AND				09/0	1/2022	
6.	Musse	- / -	TURE OF DRILLE		•			_			DATE	
	R OSE INTERI				T nor	1						rsion 04/30/2019)
	•	14663		. 2	POD NO.	(		TRN NO.	73	242	/	D4.65.2.55
LO	CATION 2	25.5	ZE, 31.3	11.0			WELL	TAG ID NO.	-			PAGE 2 OF 2

PAGE 1 OF 2



## WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER
4-23-12

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Ancested well los

						<u> </u>	116	JUL	<del>1 WE</del>	<u> 11 104 </u>	=		
	POD NUMB			MBER)				·	OSE FILE NUM	• •			
NOI	C-03528	8-POC	)1						C-03528-I	POD1			
'A'T	WELL OWN								PHONE (OPTI	•			
007	MARK 8	& ANN	IET"	TE MCCLC	·Υ				432-940-	4459 			
:LE	WELL OWN			ADDRESS		,			CITY		STATE	0.0	ZIP
WE	PO BOX	( 1076							JAL		NM ————		3252
ND	WELL				DEGREES	MINUTES	SECON						
AL,	LOCATI	-: L	LAT	TTUDE	32	13	29	и 00.	]	REQUIRED: ONE TEN	TH OF A SEC	COND	
1. GENERAL AND WELL LOCATION	(FROM G	GPS)	LON	GITUDE	103	39	44	.60 W	* DATUM REC	QUIRED: WGS 84			
GE	DESCRIPT	ION REL	ATIN	G WELL LOCAT	ON TO STREET ADDRE	SS AND COMMON	LANDM	ARKS	<b></b> .				
-:	6000	do	كمسد	ec Bar	ed on Mo	P (Non-	-GPS	<b>(</b> )					
	(2.5 ACF			(10 ACRE)	(40 ACRE)	(160 ACRE)		SECTION		TOWNSHIP		RANGE	<u> </u>
د	NW:			W 1/4	NW 1/2	NE 4	•	1	5	24	NORTH SOUTH	32	EAST WEST
ÄNÖ	SUBDIVISI			·	,,,,,	10 L ~		LOT NUM		BLOCK NUMBER	SOUTH	UNIT/TRA	
MI.												Ì	1
2. OPTIONAL	HYDROGR	APHIC S	URVE	Y	<del></del> -					MAP NUMBER		TRACT N	JMBER
													1
	LICENSE N	UMBER		NAME OF LICE	ENSED DRILLER					NAME OF WELL DE	RILLING COM	MPANY	
	WD	1682		ЈОНИ ИО	RRIS					HUNGRY HO	RSE,LL	С	
	DRILLING		D	DRILLING ENI		PLETED WELL (FT	)		LE DEPTH (FT)	DEPTH WATER FIF			
Š	2-2	0-12		3-12-12	2	541			541		133		
DRILLING INFORMATION	COMPLETED WELL IS: ARTESIAN DRY HOLE SHALLOW (UNCONFINED)  STATIC WATER LEVEL IN COMPLETED WELL (FT)										LL (FT)		
Ö	DRILLING	FLUID:		AIR	<b>✓</b> MUD	ADDITIVE	ES – SPEC	CIFY;					
_ <u>4</u>	DRILLING	METHO	);	ROTARY	HAMMER	CABLETO	00L	ОТНЕ	R - SPECIFY:				
Z.	DEPT	H (FT)		BORE HOL	E (	CASING		CON	NECTION	INSIDE DIA.	CASING	G WALL	SLOT
RIL	FROM	ТО	,	DIA. (IN)	М	ATERIAL		TYPE	(CASING)	CASING (IN)	THICKN	NESS (IN)	SIZE (IN)
3. []	0	541	1	8 3/4		PVC		GI	LUED	6"	3	3/8	1/8
		l 							<del>-</del>		ļ		
		L									<u> </u>		<u> </u>
_		H (FT)		THICKNES (FT)	SS F					ATER-BEARING S			YIELD (GPM)
STRATA	FROM	TO		19		(INCLUDE W	A I EK-I		SAND	R FRACTURE ZON	ves)		UK
STF	133	152		19					מאואט				OK .
SN.		<del> </del> -										<u> </u>	
AR	· -			_									
R BE						,		. ^C	HAY VIII	<del>/</del>			
TE	METHOD U	JSED TO	ESTO	MATE YIELD OF	WATER-BEARING STRA	ATA 1	H: $H$	A. ne	~ ()	TOTAL ESTIMATE	D WELL YIEI	JD (GPM)	
4. WATER BEARING	N/A					,	.,	•1 -	1 Talyan	S		,	
4							C (1 )	<u> </u>	110M7 271	TOTAL ESTIMATES			
	FOR OSE	E INTER	RNAI	_ USE		.,	7.112.	70 -		WELL RECO	RD & LOC	(Version 6	/9/08)
				3C2B	٠,	POD N	HADE	0/-0-	2620 0	1 TRN NUMBI	D 1/01	28/	<u> </u>

LOCATION 24.32, 15.2/1

	TYPE OI	e DI IMD:	SUBMER	RSIBLE	☐ JET	☐ NO PUMP – WELL NOT EQUIPPED							
SEAL AND PUMP	TIPEOI		☐ TURBIN	E	CYLINDER	☐ CYLINDER ☐ OTHER – SPECIFY: UNKNOWN							
			DEPTH		BORE HOLE	MATERIAL TYPE AND SIZE	AMOUNT	METHOD OF					
	ANNU		FROM	ТО	DIA. (IN)		(CUBIC FT)	PLACEMENT					
	SEAL GRAVEI		0	20	8 3/4	GROUT & CEMENT	8	ТС	)P				
3.5								<del> </del>					
	DEPTI	E (ET)	THICK	NECC			===						
	FROM	то	THICKNESS (FT)		(INCL	TERED TURE ZONES)	WA1 BEAR						
	0	3	3			TOPSOIL	<u> </u>	☐ YES	NO				
	3	18	1:			CALICHE		☐ YES					
	18	26	8			SAND		☑ YES	ОМ				
	26	133	10	7		RED CLAY		☐ YES	Ø NO				
بـ	133	152	19	€		SAND							
GEOLOGIC LOG OF WELL	152	318	16	6_		RED CLAY							
O.	318	345	27	7		SAND							
007	345	384	39	3		RED CLAY AND ROCK							
၁၉	384	418	34	4		☑ YES	□ NO						
070	418	444	26	3		☐ YES	Ø NO						
	444	468	24	4		☑ YES	ОМ						
ا ف	468	500	32	2		☐ YES	Ø NO						
	500	508	8			☑ YES	ОМ						
	508	541	33	3		☐ YES	Ø NO						
	_					☐ YES	□ NO						
	-												
						☐ YES	NO						
			ATTACH	ADDITION		EEDED TO FULLY DESCRIBE THE GEOLOGIC	LOG OF THE WELL		==				
6		wner	METHOD:	BAILE	R PUMP	☐ AIR LIFT ☐ OTHER – SPECIFY: N/,	<u> </u>						
7. TEST & ADDITIONAL INI	WELL	. 1681				DATA COLLECTED DURING WELL TESTING, AND DRAWDOWN OVER THE TESTING PER		ME, END TI	ме,				
ONA	ADDITIONAL STATEMENTS OR EXPLANATIONS:												
DITI													
AD.	1												
ST &													
'. TE													
	<del></del> -	-			·			<del></del>					
Œ	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND												
TUR	CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:												
8. SIGNATURE	11-22-12												
8.510	_	40	CICNIA TILIT	VE OF DRUIT	ED	<u>9-23-12</u>			-				
	SIGNATURE OF DRILLER DATE												
-	$\overline{\mathcal{O}}$												

FOR OSE INTERNAL USE		WELL RECORD_	& LOG (Version 6/9/08)
FILE NUMBER C-3528	POD NUMBER (-03528-POD1	TRN NUMBER	491386
LOCATION 24. 32. 15.2111		, , , , \	PAGE 2 OF 2

#### **Locator Tool Report**

#### General Information:

Application ID:29

Date: 04-03-2012

Time: 08:10:09

WR File Number: C-03528-POD1

Purpose: POINT OF DIVERSION

Applicant First Name: MARK & ANNETTE MCCLOY

Applicant Last Name: NEW STOCK WELL (COTTON PLACE)(WELL LOG LOCATION) (Based on Application)
NOT Driller 695

GW Basin: CARLSBAD

County: LEA

Critical Management Area Name(s): NONE Special Condition Area Name(s): NONE

Land Grant Name: NON GRANT

#### PLSS Description (New Mexico Principal Meridian):

NW 1/4 of NW 1/4 of NW 1/4 of NE 1/4 of Section 15, Township 24S, Range 32E.

#### **Coordinate System Details:**

#### Geographic Coordinates:

Latitude:

32 Degrees 13 Minutes 29.0 Seconds N

Longitude:

103 Degrees 39 Minutes 44.6 Seconds W

#### Universal Transverse Mercator Zone: 13N

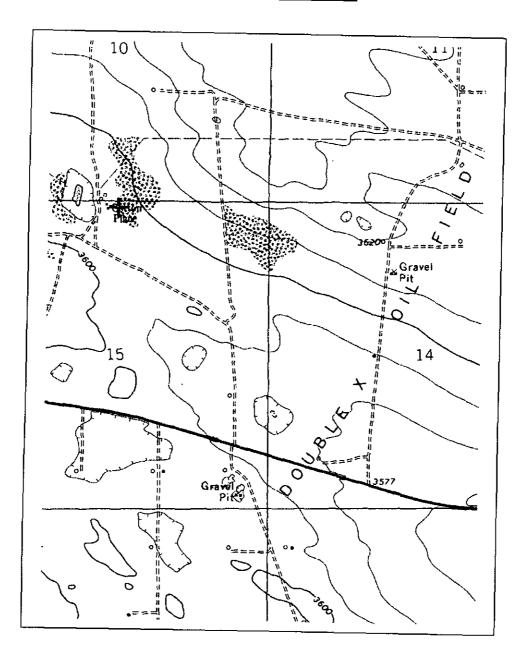
NAD 1983(92) (Meters) N: 3,566,130 E: 626,040 NAD 1983(92) (Survey Feet) N: 11,699,877 E: 2,053,934 NAD 1927 (Meters) N: 3,565,928 E: 626,089 NAD 1927 (Survey Feet) N: 11,699,215 E: 2,054,092

#### State Plane Coordinate System Zone: New Mexico East

NAD 1983(92) (Meters) N: 135,982 E: 228,239 NAD 1983(92) (Survey Feet) N: 446,136 E: 748,815 NAD 1927 (Meters) N: 135,964 E: 215,686 NAD 1927 (Survey Feet) N: 446,077 E: 707,631

### **NEW MEXICO OFFICE OF STATE ENGINEER**

### **Locator Tool Report**





WR File Number: C-03528-POD1 Scale: 1:19,970

Northing/Easting: UTM83(92) (Meter): N: 3,566,130 E: 626,040

Northing/Easting: SPCS83(92) (Feet): N: 446,136 E: 748,815

GW Basin: Carlsbad

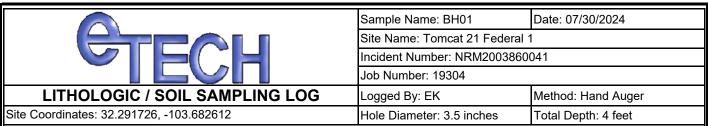
Page 2 of 2 Print Date: 04/03/2012

## **APPENDIX C**

Soil Sampling Logs

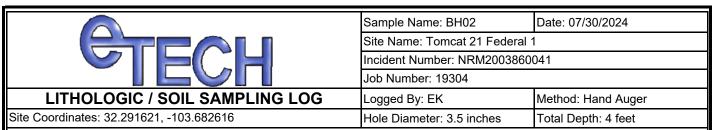
P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213





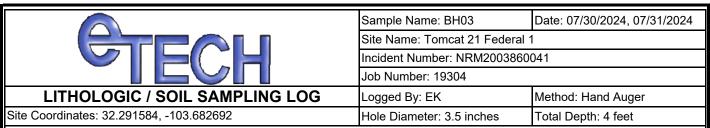
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

	,				•			_	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth	(efic 1991)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
						I		SP-SM	(0-13') SAND, dry, brown, poorly graded with trace silt,
Dry	2,092	0	No	BH01	0.5	Ţ	0.5		very fine-fine grain, trace organic, no stain, no odor.
						1			
Dry	2,600	0.1	No	BH01	1	4	1		@6' increase of silt to abundant silt.
D	0.040	0	NI -			+	0		(A0) described finds the second file.
Dry Dry Dry	2,816	0	No		2	+	2		@10' decrease of silt to trace silt.
						+	3		@13 hit refusal.
						+	Ü		i i i i i i i i i i i i i i i i i i i
Dry	2,816	0	No	BH01	4	†	4		
	·					丰			
						I	5		
						Ţ			
Dry	3,356	0			6	4	6		
						+	7		
						+	7		
Dry	5,024	0		BH01	8	+	8		
Dry	3,024	U		Biloi		+	Ü		
						Ť	9		
						丰			
Dry	5,024	0			10	I	10		
						1			
						4	11		
Dny	2 052	0		BH01	12	+	12		
Dry	3,952	U		וטחטו	12	+	12		
Dry Dry	4,640	0			13	+	13		
				1				Total [	Depth



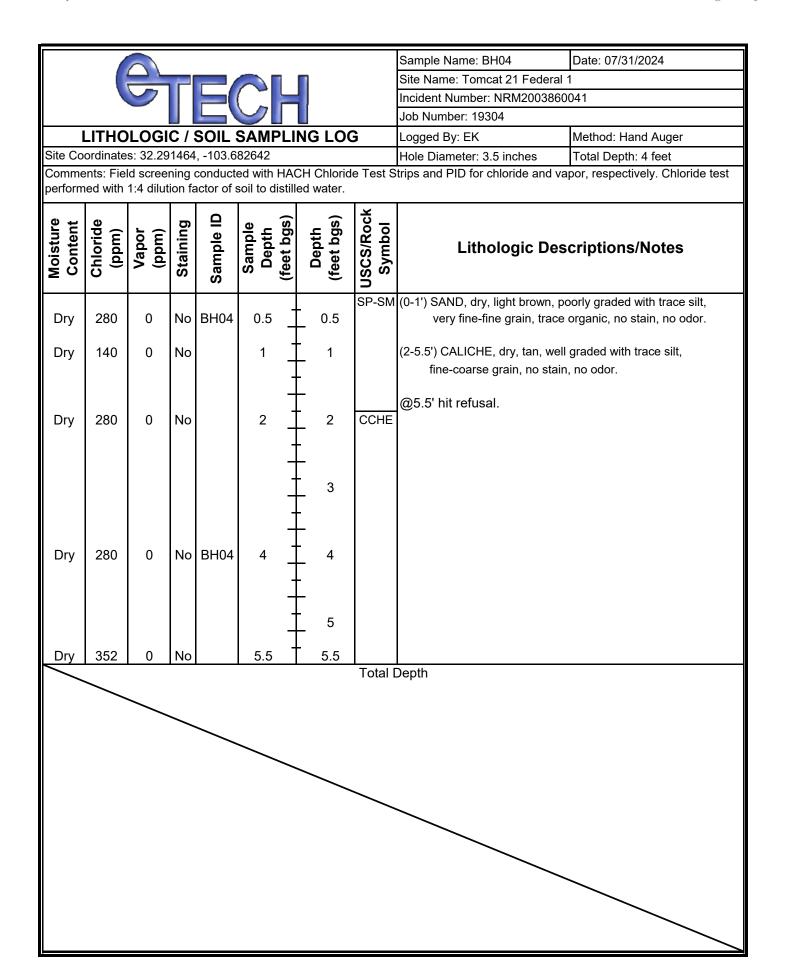
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

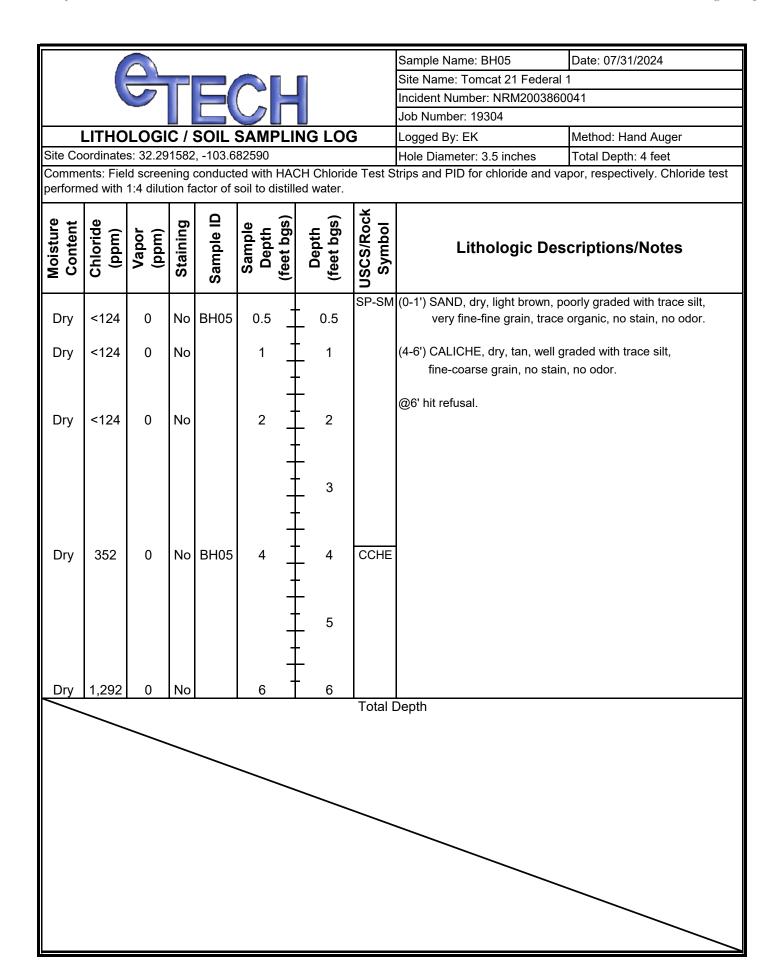
Moisture Content Chloride (ppm) Vapor (ppm) Sample ID Sample ID Symbol	es						
Dry 896 0 No BH02 0.5 SP-SM (0-9') SAND, dry, brown, poorly graded with trace so very fine-fine grain, trace organic, no stain, respectively.							
Dry 896 0 No 1 1 1 (@1' Color change from brown to tan, roots encour	tered.						
@2' Increase of silt from trace to some.							
Dry 700 0 No 2 <u>1</u> 2 @9' hit refusal.							
Dry 1,588 0.3 No BH02 4 + 4							
Dry $\begin{vmatrix} 1,384 & 0 & No \end{vmatrix}$ $\begin{vmatrix} 6 & \overline{1} & 6 \\ \overline{1} & 1 & 1 \end{vmatrix}$							
Dry 1,292 0.2 No BH02 8 T 8							
Dry 1,292 0.2 No BH02 8							
Total Depth							

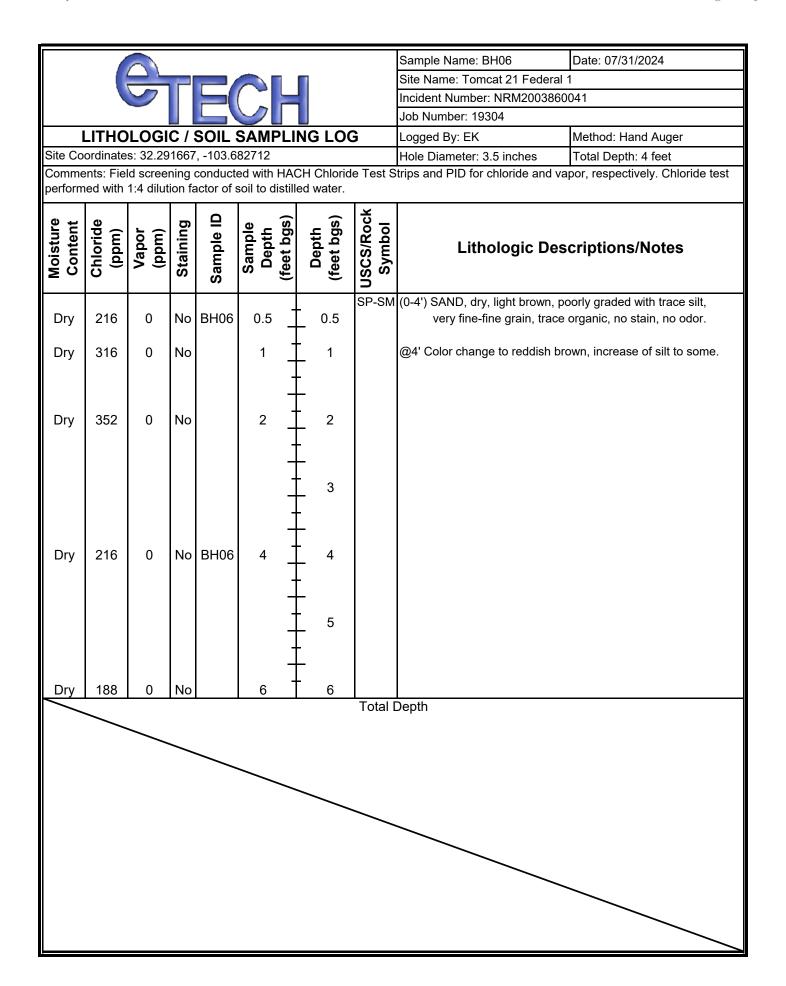


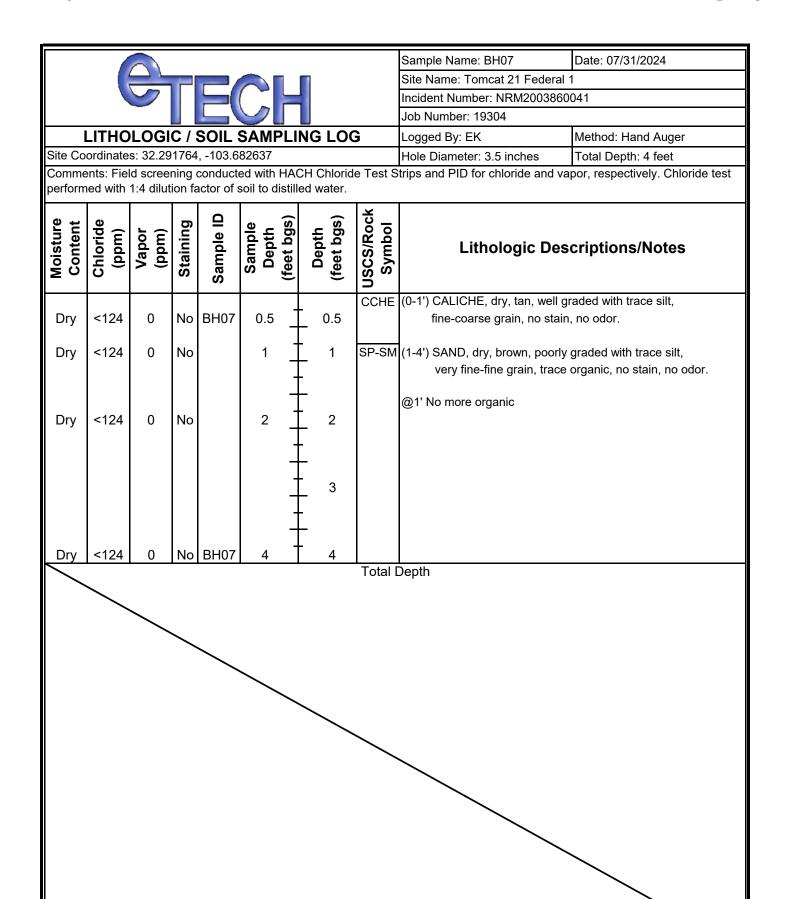
Comments: Field screening conducted with HACH Chloride Test Strips and PID for chloride and vapor, respectively. Chloride test performed with 1:4 dilution factor of soil to distilled water.

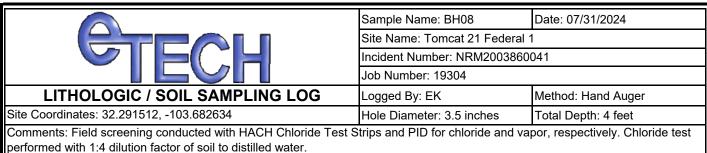
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth	(feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	<124	0	No	BH03	0.5	-	0.5	CCHE	(0-8') CALICHE, dry, tan, well graded with trace silt, fine-coarse grain, no stain, no odor.
Dry	<124	0	No		1		_ - _ 1		@4' Color change to reddish brown, increase of silt to some.
Dry	<124	0	No		2	1 1 1 1	- - - 2 -		@8' hit refusal.
						1 1 1	- _ 3 -		
Dry	188	0.3	No	BH03	4	1 1 1	- _ 4 -		
						1 1 1	- - - -		
Dry	<124	0	No		6	1 1	- _ 6 -		
							- - -		
Dry	188	0	No		8	_	8	T.4.15	and the
	Total Depth								











performed with 1:4 dilution factor of soil to distilled water.

Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (feet bgs)	Depth (feet bgs)	USCS/Rock Symbol	Lithologic Descriptions/Notes
Dry	352	0	No	BH08	0.5	0.5	SP-SM	(0-4') SAND, dry, light brown, poorly graded with some silt, very fine-fine grain, trace organic, no stain, no odor.
Dry	280	0	No		1 _	- - 1 -		(1-4') CALICHE, dry, tan, well graded with trace silt, fine-coarse grain, no stain, no odor.
Dry	280	0.1	No		2 2	_ - _ 2 -	CCHE	@4' Color change to reddish brown, increase of silt to some. @4' Hit refusal.
					-	- - 3 -		
Dry	188	0	No	BH08	4	_ - 4		

Total Depth

## APPENDIX D

Photographic Logs

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# **CTECH**

#### **PHOTOGRAPHIC LOG**

Devon Energy Production Company, LP Tomcat 21 Federal 1 Incident Number NRM2003860041

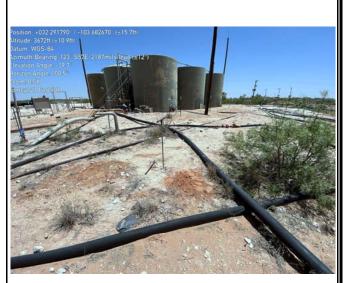


Position +032 291656 7-103 887/07 (±15 7ft)
Altitude 3670t t ±10 9ft)
Palum +WSS-94
Azimuth Béaring 072 N72E 1280mils True (±12 )
Elevation Angle +002
Bearing 55 0
Benedali21 Fed till

Photograph 1 Date: 7/30/2024 Description: Northwestern view of delineation activities.

Photograph 2 Date: 7/30/2024
Description: Northeastern view of delineation activities.





Photograph 3 Date: 7/31/2024 Description: Southeastern view of delineation activities.

Photograph 4 Date: 7/31/2024 Description: Southeastern view of delineation activities.

## APPENDIX E

**Tables** 

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Received by OCD: 11/21/2024 1:46:41 PM



#### Table 1 **SOIL SAMPLE ANALYTICAL RESULTS Devon Energy Production Co. LP** Tomcat 21 Federal 1 Lea County, New Mexico

Sample I.D.	Sample Date	Sample Depth (feet bgs)	Benzene (mg/kg)	Total BTEX (mg/kg)	TPH GRO (mg/kg)	TPH DRO (mg/kg)	TPH ORO (mg/kg)	DRO+GRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)	
NMOCD Table I Closure Criteria for Soils Impacted by a Release (NMAC 19.15.29)		10	50	NE	NE	NE	1,000	2,500	10,000		
Delineation Soil Samples - Incident Number NRM2003860041											
BH01	07/30/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,020 <sup>†</sup>	
BH01	07/30/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	2,720	
BH01	07/30/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	5,250	
BH01	07/30/2024	12	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	3,610	
BH02	07/30/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	797 $^{\dagger}$	
BH02	07/30/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,860	
BH02	07/30/2024	8	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,810	
BH03	07/30/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	49.4	
BH03	07/31/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	41.4	
BH04	07/31/2024	0.5	<0.0250	<0.0500	<20.0	29.0	<50.0	29.0	29.0	251	
BH04	07/31/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	557	
BH05	07/31/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0	
BH05	07/31/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	446	
BH06	07/31/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	170	
BH06	07/31/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	222	
BH07	07/31/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	111	
BH07	07/31/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	117	
BH08	07/31/2024	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	406	
BH08	07/31/2024	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	285	

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

GRO: Gasoline Range Organics DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMOCD: New Mexico Oil Conservation Division

NMAC: New Mexico Administrative Code Text in "grey" represents excavated soil samples

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria and/or Reclamation Standard<sup>†</sup> for Soils Impacted by a Release

The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

## **APPENDIX F**

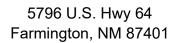
Laboratory Analytical Reports & Chain-of-Custody Documentation

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213



Report to:
Anna Byers





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





# envirotech

Practical Solutions for a Better Tomorrow

## **Analytical Report**

WPX Energy - Carlsbad

Project Name: TOMCAT 21 FEDERAL #001

Work Order: E408019

Job Number: 01058-0007

Received: 8/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/7/24

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

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

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

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

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

Date Reported: 8/7/24

Anna Byers 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: TOMCAT 21 FEDERAL #001

Workorder: E408019

Date Received: 8/2/2024 8:00:16AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/2/2024 8:00:16AM, under the Project Name: TOMCAT 21 FEDERAL #001.

The analytical test results summarized in this report with the Project Name: TOMCAT 21 FEDERAL #001 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Field Offices:

**Southern New Mexico Area** Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Gonzales

Client Representative

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Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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QC - Nonhalogenated Organics by EPA 8015D - GRO	10
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#### Sample Summary

WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Danautada
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	08/07/24 10:10

Client Sample ID	Lab Sample ID Matrix	Sampled R	eceived	Container
BH01 - 0.5'	E408019-01A Soil	07/30/24	8/02/24	Glass Jar, 2 oz.
BH01 - 4'	E408019-02A Soil	07/30/24 0	8/02/24	Glass Jar, 2 oz.
BH02 - 0.5'	E408019-03A Soil	07/30/24 0	8/02/24	Glass Jar, 2 oz.
BH02 - 4'	F408019-04A Soil	07/30/24 0	8/02/24	Glass Jar. 2 oz.



WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	8/7/2024 10:10:04AM

#### BH01 - 0.5' E408019-01

Reporting										
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes			
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2431133			
Benzene	ND	0.0250		1	08/02/24	08/03/24				
Ethylbenzene	ND	0.0250		1	08/02/24	08/03/24				
Toluene	ND	0.0250		1	08/02/24	08/03/24				
o-Xylene	ND	0.0250		1	08/02/24	08/03/24				
p,m-Xylene	ND	0.0500		1	08/02/24	08/03/24				
Total Xylenes	ND	0.0250		1	08/02/24	08/03/24				
Surrogate: Bromofluorobenzene		102 %	70-130		08/02/24	08/03/24				
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130		08/02/24	08/03/24				
Surrogate: Toluene-d8		98.9 %	70-130		08/02/24	08/03/24				
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2431133			
Nonhalogenated Organics by EPA 8015D - GRO Gasoline Range Organics (C6-C10)	mg/kg ND	mg/kg 20.0		Analyst:	08/02/24	08/03/24	Batch: 2431133			
						08/03/24 08/03/24	Batch: 2431133			
Gasoline Range Organics (C6-C10)		20.0			08/02/24		Batch: 2431133			
Gasoline Range Organics (C6-C10)  Surrogate: Bromofluorobenzene		20.0 102 %	70-130		08/02/24 08/02/24	08/03/24	Batch: 2431133			
Gasoline Range Organics (C6-C10)  Surrogate: Bromofluorobenzene  Surrogate: 1,2-Dichloroethane-d4		20.0 102 % 96.2 %	70-130 70-130 70-130		08/02/24 08/02/24 08/02/24 08/02/24	08/03/24 08/03/24	Batch: 2431133  Batch: 2431137			
Gasoline Range Organics (C6-C10)  Surrogate: Bromofluorobenzene  Surrogate: 1,2-Dichloroethane-d4  Surrogate: Toluene-d8	ND	20.0 102 % 96.2 % 98.9 %	70-130 70-130 70-130	1	08/02/24 08/02/24 08/02/24 08/02/24	08/03/24 08/03/24				
Gasoline Range Organics (C6-C10)  Surrogate: Bromofluorobenzene  Surrogate: 1,2-Dichloroethane-d4  Surrogate: Toluene-d8  Nonhalogenated Organics by EPA 8015D - DRO/ORO	ND mg/kg	20.0 102 % 96.2 % 98.9 % mg/kg	70-130 70-130 70-130	1	08/02/24 08/02/24 08/02/24 08/02/24 NV	08/03/24 08/03/24 08/03/24				
Gasoline Range Organics (C6-C10)  Surrogate: Bromofluorobenzene  Surrogate: 1,2-Dichloroethane-d4  Surrogate: Toluene-d8  Nonhalogenated Organics by EPA 8015D - DRO/ORO  Diesel Range Organics (C10-C28)	ND mg/kg ND	20.0 102 % 96.2 % 98.9 % mg/kg 25.0	70-130 70-130 70-130	1	08/02/24 08/02/24 08/02/24 08/02/24 NV 08/02/24	08/03/24 08/03/24 08/03/24 08/03/24				
Gasoline Range Organics (C6-C10)  Surrogate: Bromofluorobenzene  Surrogate: 1,2-Dichloroethane-d4  Surrogate: Toluene-d8  Nonhalogenated Organics by EPA 8015D - DRO/ORO  Diesel Range Organics (C10-C28)  Oil Range Organics (C28-C36)	ND mg/kg ND	20.0 102 % 96.2 % 98.9 % mg/kg 25.0 50.0	70-130 70-130 70-130 50-200	1	08/02/24 08/02/24 08/02/24 08/02/24 NV 08/02/24 08/02/24 08/02/24	08/03/24 08/03/24 08/03/24 08/03/24 08/03/24				



WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	8/7/2024 10:10:04AM

#### BH01 - 4' E408019-02

Pagult			ution	Brangrad	Analyzad	Notes
Resuit	Limit	Dilu	luon	Prepared	Analyzed	Notes
mg/kg	mg/kg		Analyst:	RKS		Batch: 2431133
ND	0.0250	1	1	08/02/24	08/03/24	
ND	0.0250	1	1	08/02/24	08/03/24	
ND	0.0250	1	1	08/02/24	08/03/24	
ND	0.0250	1	1	08/02/24	08/03/24	
ND	0.0500	1	1	08/02/24	08/03/24	
ND	0.0250	1	1	08/02/24	08/03/24	
	103 %	70-130		08/02/24	08/03/24	
	93.3 %	70-130		08/02/24	08/03/24	
	98.3 %	70-130		08/02/24	08/03/24	
mg/kg	mg/kg		Analyst:	RKS		Batch: 2431133
ND	20.0	1	l	08/02/24	08/03/24	
	103 %	70-130		08/02/24	08/03/24	
	93.3 %	70-130		08/02/24	08/03/24	
	98.3 %	70-130		08/02/24	08/03/24	
mg/kg	mg/kg		Analyst:	NV		Batch: 2431137
ND	25.0	1	1	08/02/24	08/03/24	
ND	50.0	1	1	08/02/24	08/03/24	
	102 %	50-200		08/02/24	08/03/24	
mg/kg	mg/kg		Analyst:	DT		Batch: 2431148
2720	40.0	2	2	08/03/24	08/03/24	
	ND Mg/kg ND Mg/kg	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           ND         0.0250           I03 %         93.3 %           98.3 %         mg/kg           ND         20.0           103 %         93.3 %           98.3 %         mg/kg           ND         25.0           ND         50.0           102 %         mg/kg           mg/kg         mg/kg	mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           103 %         70-130           93.3 %         70-130           98.3 %         70-130           mg/kg         mg/kg           ND         20.0           103 %         70-130           93.3 %         70-130           98.3 %         70-130           mg/kg         mg/kg           ND         25.0           ND         50.0           102 %         50-200           mg/kg         mg/kg	Result         Limit         Dilution           mg/kg         mg/kg         Analyst:           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           103 %         70-130         70-130           98.3 %         70-130         70-130           mg/kg         mg/kg         Analyst:           ND         20.0         1           103 %         70-130         70-130           98.3 %         70-130         70-130           mg/kg         mg/kg         Analyst:           ND         25.0         1           ND         50.0         1           102 %         50-200           mg/kg         Analyst:	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/02/24           ND         0.0250         1         08/02/24           ND         0.0250         1         08/02/24           ND         0.0500         1         08/02/24           ND         0.0250         1         08/02/24           ND         0.0250         1         08/02/24           ND         0.0250         1         08/02/24           93.3 %         70-130         08/02/24           98.3 %         70-130         08/02/24           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/02/24           93.3 %         70-130         08/02/24           98.3 %         70-130         08/02/24           98.3 %         70-130         08/02/24           98.3 %         70-130         08/02/24           mg/kg         mg/kg         Analyst: NV           ND         25.0         1         08/02/24           ND         50.0         1         08/02/24	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/02/24         08/03/24           ND         0.0500         1         08/02/24         08/03/24           ND         0.0250         1         08/02/24         08/03/24           ND         0.0250         1         08/02/24         08/03/24           93.3 %         70-130         08/02/24         08/03/24           98.3 %         70-130         08/02/24         08/03/24           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/02/24         08/03/24           93.3 %         70-130         08/02/24         08/03/24           98.3 %         70-130         08/02/24         08/03/24           mg/kg         mg/kg         Analyst: NV           ND         50.0         1



WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	8/7/2024 10:10:04AM

#### BH02 - 0.5' E408019-03

		E400017-03					
		Reporting					
Analyte	Result	Limit	Dilu	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: R	KS		Batch: 2431133
Benzene	ND	0.0250	1	l	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	l	08/02/24	08/03/24	
Toluene	ND	0.0250	1	l	08/02/24	08/03/24	
p-Xylene	ND	0.0250	1	l	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	l	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	Į	08/02/24	08/03/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/02/24	08/03/24	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130		08/02/24	08/03/24	
Surrogate: Toluene-d8		99.5 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: R	KS		Batch: 2431133
Gasoline Range Organics (C6-C10)	ND	20.0	1	[	08/02/24	08/03/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/02/24	08/03/24	
Surrogate: 1,2-Dichloroethane-d4		98.3 %	70-130		08/02/24	08/03/24	
Surrogate: Toluene-d8		99.5 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	_	Analyst: N	V		Batch: 2431137
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	I	08/02/24	08/03/24	
Surrogate: n-Nonane		102 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst: D	Т		Batch: 2431148
Chloride	797	20.0	1	1	08/03/24	08/03/24	



WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	8/7/2024 10:10:04AM

#### BH02 - 4' E408019-04

		E408019-04					
Analysis	Dl/	Reporting	D.I.		D 1	A I	Nata
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2431133
Benzene	ND	0.0250		1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250		1	08/02/24	08/03/24	
Toluene	ND	0.0250		1	08/02/24	08/03/24	
p-Xylene	ND	0.0250		1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500		1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250		1	08/02/24	08/03/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/02/24	08/03/24	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130		08/02/24	08/03/24	
Surrogate: Toluene-d8		99.0 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS			Batch: 2431133
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/02/24	08/03/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/02/24	08/03/24	
Surrogate: 1,2-Dichloroethane-d4		97.1 %	70-130		08/02/24	08/03/24	
Surrogate: Toluene-d8		99.0 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2431137
Diesel Range Organics (C10-C28)	ND	25.0		1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/02/24	08/03/24	
Surrogate: n-Nonane		99.2 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2431148
Chloride	1860	40.0		2	08/03/24	08/03/24	



TOMCAT 21 FEDERAL #001 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Anna Byers 8/7/2024 10:10:04AM **Volatile Organic Compounds by EPA 8260B** Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Prepared: 08/02/24 Analyzed: 08/02/24 Blank (2431133-BLK1) ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.501 0.500 100 70-130 Surrogate: 1,2-Dichloroethane-d4 0.473 0.500 94.5 70-130 0.500 96.6 70-130 Surrogate: Toluene-d8 0.483 LCS (2431133-BS1) Prepared: 08/02/24 Analyzed: 08/06/24 2.41 0.0250 2.50 96.5 70-130 Benzene 2.50 97.1 70-130 2.43 Ethylbenzene 0.0250 2.29 0.0250 2.50 91.6 70-130 2.41 70-130 0.0250 2.50 96.5 o-Xylene 4.83 5.00 96.7 70-130 p,m-Xylene 0.0500 7.25 0.0250 7.50 96.6 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.523 0.500 105 70-130 0.500 92.4 70-130 Surrogate: 1,2-Dichloroethane-d4 0.462 70-130 Surrogate: Toluene-d8 0.494 0.500 Matrix Spike (2431133-MS1) Source: E408004-03 Prepared: 08/02/24 Analyzed: 08/02/24 2.56 0.0250 2.50 ND 48-131 45-135 Ethylbenzene 2.65 0.0250 2.50 ND 106 99.6 48-130 Toluene 2.49 0.0250 2.50 ND 2.67 0.0250 2.50 ND 107 43-135 o-Xylene ND 106 43-135 p,m-Xylene 5.31 0.0500 5.00 Total Xylenes 7.98 0.0250 7.50 ND 106 43-135 Surrogate: Bromofluorobenzene 0.520 0.500 104 70-130 0.500 97.0 70-130 Surrogate: 1,2-Dichloroethane-d4 0.485 0.500 70-130 0.505 Surrogate: Toluene-d8

Source: E408004-03

104

102

111

110

111

105

94.9

101

48-131

45-135

48-130

43-135

43-135

43-135

70-130

70-130

70-130

1.76

2.07

1.99

3.66

3.87

3.80

ND

ND

ND

ND

ND

ND



Prepared: 08/02/24 Analyzed: 08/02/24

23

27

24

27

27

27

Matrix Spike Dup (2431133-MSD1)

Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

Surrogate: Toluene-d8

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

2.60

2.71

2.54

2.77

5.52

8.29

0.524

0.475

0.503

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

2.50

2.50

2.50

2.50

5.00

7.50

0.500

0.500

0.500

WPX Energy - Carlsbad Project Name: TOMCAT 21 FEDERAL #001 Reported:
5315 Buena Vista Dr Project Number: 01058-0007
Carlsbad NM, 88220 Project Manager: Anna Byers 8/7/2024 10:10:04AM

Analyst: RKS

Analyte		Reporting	Spike	Source		Rec		RPD	
	Result	Limit	Level	Result	Rec	Limits	RPD	Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes

	resur				1100					
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes	
Blank (2431133-BLK1)							Prepared: 0	8/02/24 A1	nalyzed: 08/02/24	
Gasoline Range Organics (C6-C10)	ND	20.0								
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130				
Surrogate: Toluene-d8	0.483		0.500		96.6	70-130				
LCS (2431133-BS2)							Prepared: 0	8/02/24 Aı	nalyzed: 08/02/24	
Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.7	70-130	·	·		
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130				
Surrogate: Toluene-d8	0.502		0.500		100	70-130				
Matrix Spike (2431133-MS2)				Source: E408004-03			Prepared: 08/02/24 Analyzed: 08/06/24			
Gasoline Range Organics (C6-C10)	44.2	20.0	50.0	ND	88.4	70-130				
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.1	70-130				
Surrogate: Toluene-d8	0.509		0.500		102	70-130				
Matrix Spike Dup (2431133-MSD2)				Source:	Source: E408004-03		Prepared: 0	8/02/24 A1	nalyzed: 08/02/24	
Gasoline Range Organics (C6-C10)	50.1	20.0	50.0	ND	100	70-130	12.5	20		
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.1	70-130				
Surrogate: Toluene-d8	0.502		0.500		100	70-130				



WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	8/7/2024 10:10:04AM

Carlsbad NM, 88220		Project Manage	r: Ar	ına Byers					8/7/2024 10:10:04AM		
Nonhalogenated Organics by EPA 8015D - DRO/ORO Analyst: NV											
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2431137-BLK1)							Prepared: 0	8/02/24 Aı	nalyzed: 08/02/24		
Diesel Range Organics (C10-C28)	ND	25.0									
Dil Range Organics (C28-C36)	ND	50.0									
Surrogate: n-Nonane	62.2		50.0		124	50-200					
LCS (2431137-BS1)							Prepared: 0	8/02/24 Aı	nalyzed: 08/02/24		
Diesel Range Organics (C10-C28)	272	25.0	250		109	38-132					
urrogate: n-Nonane	58.2		50.0		116	50-200					
Matrix Spike (2431137-MS1)				Source:	E408015-	08	Prepared: 0	8/02/24 Aı	nalyzed: 08/02/24		
Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	38-132					
Surrogate: n-Nonane	60.1		50.0		120	50-200					
Matrix Spike Dup (2431137-MSD1)				Source:	E408015-	08	Prepared: 0	8/02/24 Aı	nalyzed: 08/02/24		
Diesel Range Organics (C10-C28)	266	25.0	250	ND	106	38-132	3.93	20			
Surrogate: n-Nonane	57.4		50.0		115	50-200					



WPX Energy - Carlsbad Project Name: TOMCAT 21 FEDERAL #001									Reported:			
5315 Buena Vista Dr		Project Number:	01	.058-0007								
Carlsbad NM, 88220		Project Manager:	Aı	nna Byers					8/7/2024 10:10:04AM			
		Anions	by EPA 3	00.0/9056 <i>A</i>	4				Analyst: DT			
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit				
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes			
Blank (2431148-BLK1)						Prepared: 0	8/03/24 A	nalyzed: 08/03/24				
Chloride	ND	20.0										
LCS (2431148-BS1)							Prepared: 0	8/03/24 A	analyzed: 08/03/24			
Chloride	259	20.0	250		104	90-110						
Matrix Spike (2431148-MS1)			Source: E408019-03 Prepar					analyzed: 08/03/24				
Chloride	1070	20.0	250	797	109	80-120						
Matrix Spike Dup (2431148-MSD1)				Source:	E408019-	03	Prepared: 0	8/03/24 A	analyzed: 08/03/24			
Chloride	1050	20.0	250	797	99.9	80-120	2.25	20				

#### QC Summary Report Comment:

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



### **Definitions and Notes**

WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	08/07/24 10:10

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



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Client: V	/PX Energ	y Permia	n, LLC.		Bill To		Lab Use Only					Only			TAT			EPA	EPA Program		
Project:	TOMCAT	21 FEDER	RAL #001		Attention: Jim Raley		Lab	WO	#		Job	Num	ber	1	D 2D	3D	Standar				
Project N	Manager:	Anna Bye	ers		Address: 5315 Buena Vista Dr.		F	108	010	1	01058000+ 5 day TAT										
Address	13000 W	County	Rd 100		City, State, Zip: Carlsbad, NM, 882	20	1				Analysis and Method						RCRA				
	te, Zip_O				Phone: 575-885-7502		t							$\top$	T	T					
	32-305-6				Email: jim.raley@dvn.com			015										State			
100 AUG - 100 BOOK - 1	evon-tear	- AV	env com		WBS: 1061476201 – NM PERMIAN ABANDON			γ 8(								1	NIAL	COUTA	Name and the second		
Email. D	evon tear	nected	iciiv.com		Incident ID: nRM2003860041	ADAINDON	1	30 F							- 1		14141	0 01 7	YZ IX		
					Incident ID: hkivi2003860041			10/0							_						
Collecte	d by: Edyt	e Konan						DRC	021	560	10	300.0			Σ	×					
4		C KOHan				Lab	Depth(ft.)	TPH GRO/DRO/ORO by 8015	by 8	VOC by 8260	Metals 6010	Chloride 300.0			٦		×				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID			epth	H.	BTEX I	200	etal	nlori			BeDOC	GDOC		Remar	rks		
Jumpica	Jumpieu		-			Number	0	F	20	>	2	Ü	-	+	<u>n</u>	9					
12:00	07.30.24	S	1		BH01		0.5'								x						
						1	-		_	_	_			+	-	+					
12:20	07.30.24	S	1		BH01	2	4'								x						
-							-						_	+	-	_					
13:20	07.30.24	S	1		BH02	3	0.5								x						
						CONTRACTOR OF STREET								+		-					
13:40	07.30.24	S	1		BH02	4	4'								x						
						1							-	+	-	_					
											2-285			+							
				ļ			-			_			_	+	-	+-					
					-01-		-														
-					0810112024		-		-		-		_	+	+	+-					
					081011																
-							-	-	-			-		+	-	+					
-							-			_				+	-	-					
-			-					-	-					+	-	-					
							16														
0 11111				L																	
Addition	al Instru	ctions:																			
1. (6: -1-1	-11	a ale e contratta		Note of the court	1 24 24 25 26 27	L - 112 41	1-1	41			Sampl	es requi	ring therm	al neos	envation	must he r	eceived on ice th	e day they are	sampled or		
					I am aware that tampering with or intentionally misla	beiling the sam	ole loca	ition,									less than 6 °C or				
			Date	may be grounds for l		Date		Time			THE SALE			e sinti di se	1 - 1 - 1	l 0-	L				
Keiinquisii	ed by: (Sign	A)		101124 113	30 Received by: (Signature)	8-1-2	4		30					1	-	Jse Or	ııy				
Polinguish	ad but Ison	7	Date		Received by: (Signature)	Date	1	Time			Kec	eived	on ice	: (	3/	N					
				8-1-29		17	30														
Policy							-			<u>T1</u>						<u>T3</u>		-			
10		aturey	Date	The same of the sa	Received by: (Signature)	8/2/2	11	Time	(Y)	1			0-	L	1						
	a Br	410	0.	1011		100	.7	0	Y		_	Ten			<u></u>						
				Aqueous, O - Other _		Containe															
					unless other arrangements are made. Hazardo									clien	expen	se. The	report for th	e analysis of	the above		



e. The report for the analysis of the above

Printed: 8/2/2024 12:56:12PM

#### Envirotech Analytical Laboratory

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	08/02/24 (	08:00	Work Ord	ler ID:	E408019
Phone:	(575) 200-6754	Date Logged In:	08/01/24 1	16:22	Logged I	n By:	Noe Soto
Email:	anna@etechenv.vom	Due Date:	08/08/24	17:00 (4 day TAT)		·	
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location ma	tch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: Cou	<u>urier</u>		
	e COC complete, i.e., signatures, dates/times, reque	sted analyses?	Yes				
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi		Yes		<u>Co</u>	mment	s/Resolution
Sample T	<u> Curn Around Time (TAT)</u>						
6. Did the	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C							
	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes	, were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes C				
	Container _	· • • · · · · · <u> </u>	_				
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers	?	Yes				
	appropriate volume/weight or number of sample contai		Yes				
Field Lal	•						
	field sample labels filled out with the minimum info	ormation:					
	ample ID?		Yes				
	ate/Time Collected?		Yes	L			
C	ollectors name?		No				
	<u>Preservation</u>						
	the COC or field labels indicate the samples were p	reserved?	No				
	ample(s) correctly preserved?		NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
	se Sample Matrix						
	the sample have more than one phase, i.e., multipha		No				
27. If yes	, does the COC specify which phase(s) is to be analy	yzed?	NA				
Subcontr	act Laboratory						
28. Are sa	amples required to get sent to a subcontract laborato	ry?	No				
29. Was a	subcontract laboratory specified by the client and i	f so who?	NA	Subcontract Lab: N	NA		
Client Ir	nstruction_						

Date

Report to:
Anna Byers



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

## **Analytical Report**

WPX Energy - Carlsbad

Project Name: TOMCAT 21 FEDERAL #001

Work Order: E408018

Job Number: 01058-0007

Received: 8/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/7/24

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

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

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

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

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

Date Reported: 8/7/24

Anna Byers 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: TOMCAT 21 FEDERAL #001

Workorder: E408018

Date Received: 8/2/2024 8:00:16AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/2/2024 8:00:16AM, under the Project Name: TOMCAT 21 FEDERAL #001.

The analytical test results summarized in this report with the Project Name: TOMCAT 21 FEDERAL #001 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

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#### **Sample Summary**

WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	08/07/24 10:08

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 - 8'	E408018-01A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.
BH01 - 12'	E408018-02A	Soil	07/30/24	08/02/24	Glass Jar, 2 oz.



WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	8/7/2024 10:08:49AM

#### BH01 - 8' E408018-01

		Reporting					
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2431133
Benzene	ND	0.0250	1	1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250	1	1	08/02/24	08/03/24	
Toluene	ND	0.0250	1	1	08/02/24	08/03/24	
o-Xylene	ND	0.0250	1	1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500	1	1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250	1	1	08/02/24	08/03/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/02/24	08/03/24	
Surrogate: 1,2-Dichloroethane-d4		92.4 %	70-130		08/02/24	08/03/24	
Surrogate: Toluene-d8		99.2 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2431133
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/02/24	08/03/24	
Surrogate: Bromofluorobenzene		101 %	70-130		08/02/24	08/03/24	
Surrogate: 1,2-Dichloroethane-d4		92.4 %	70-130		08/02/24	08/03/24	
Surrogate: Toluene-d8		99.2 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: NV		Batch: 2431137
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/02/24	08/03/24	
Surrogate: n-Nonane		101 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: DT		Batch: 2431142
		100		5	08/02/24	08/02/24	



WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	8/7/2024 10:08:49AM

#### BH01 - 12' E408018-02

	E400010-02					
Pagult			tion	Droparad	Analyzad	Notes
Result	Limit	Dilui	ition	rrepared	Anaryzeu	Inotes
mg/kg	mg/kg	A	Analyst: RK	S		Batch: 2431133
ND	0.0250	1	ļ	08/02/24	08/03/24	
ND	0.0250	1	!	08/02/24	08/03/24	
ND	0.0250	1	!	08/02/24	08/03/24	
ND	0.0250	1	l	08/02/24	08/03/24	
ND	0.0500	1	l	08/02/24	08/03/24	
ND	0.0250	1	l	08/02/24	08/03/24	
	102 %	70-130		08/02/24	08/03/24	
	97.0 %	70-130		08/02/24	08/03/24	
	101 %	70-130		08/02/24	08/03/24	
mg/kg	mg/kg	A	Analyst: RK	XS .		Batch: 2431133
ND	20.0	1	l	08/02/24	08/03/24	
	102 %	70-130		08/02/24	08/03/24	
	97.0 %	70-130		08/02/24	08/03/24	
	101 %	70-130		08/02/24	08/03/24	
mg/kg	mg/kg	A	Analyst: NV	7		Batch: 2431137
ND	25.0	1		08/02/24	08/03/24	
ND	50.0	1	Į.	08/02/24	08/03/24	
	104 %	50-200		08/02/24	08/03/24	
mg/kg	mg/kg	A	Analyst: DT			Batch: 2431142
	ND	Result         Reporting Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           ND         0.0250           IO2 %         97.0 %           101 %         mg/kg           ND         20.0           IO2 %         97.0 %           101 %         101 %           mg/kg         mg/kg           ND         25.0           ND         50.0           104 %	Reporting           Result         Limit         Dilu           mg/kg         mg/kg           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           102 %         70-130         70-130           97.0 %         70-130         101 %           ND         20.0         1           101 %         70-130         101 %           mg/kg         mg/kg         mg/kg           ND         25.0         1           ND         50.0         1           104 %         50-200	Reporting           Result         Limit         Dilution           mg/kg         mg/kg         Analyst: Rk           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         70-130         1           97.0 %         70-130         70-130           mg/kg         mg/kg         Analyst: Rk           ND         20.0         1           102 %         70-130         70-130           97.0 %         70-130         70-130           mg/kg         mg/kg         Analyst: NV           ND         25.0         1           ND         50.0         1           104 %         50-200	Reporting           Result         Limit         Dilution         Prepared           mg/kg         Analyst: RKS           ND         0.0250         1         08/02/24           ND         0.0250         1         08/02/24           ND         0.0250         1         08/02/24           ND         0.0500         1         08/02/24           ND         0.0250         1         08/02/24           ND         0.0250         1         08/02/24           97.0 %         70-130         08/02/24           97.0 %         70-130         08/02/24           101 %         70-130         08/02/24           MD         20.0         1         08/02/24           97.0 %         70-130         08/02/24           97.0 %         70-130         08/02/24           101 %         70-130         08/02/24           mg/kg         mg/kg         Analyst: NV           ND         25.0         1         08/02/24           ND         50.0         1         08/02/24           ND         50.0         1         08/02/24           ND         50.0         1	Reporting           Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/02/24         08/03/24           ND         0.0250         1         08/02/24         08/03/24           ND         0.0250         1         08/02/24         08/03/24           ND         0.0500         1         08/02/24         08/03/24           ND         0.0250         1         08/02/24         08/03/24           ND         0.0250         1         08/02/24         08/03/24           ND         0.0250         1         08/02/24         08/03/24           97.0 %         70-130         08/02/24         08/03/24           97.0 %         70-130         08/02/24         08/03/24           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/02/24         08/03/24           97.0 %         70-130         08/02/24         08/03/24           97.0 %         70-130         08/02/24         08/03/24           08/03/24         08/03/24         08/03/24           08/03/24



TOMCAT 21 FEDERAL #001 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Anna Byers 8/7/2024 10:08:49AM Volatile Organic Compounds by EPA 8260B Analyst: RKS Spike Source RPD Reporting Rec Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2431133-BLK1) Prepared: 08/02/24 Analyzed: 08/02/24 ND 0.0250 ND Ethylbenzene 0.0250 ND Toluene 0.0250 ND 0.0250 o-Xylene ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: Bromofluorobenzene 0.501 0.500 100 70-130 Surrogate: 1,2-Dichloroethane-d4 0.473 0.500 94.5 70-130 0.483 0.500 96.6 70-130 Surrogate: Toluene-d8 LCS (2431133-BS1) Prepared: 08/02/24 Analyzed: 08/06/24 Benzene 2.41 0.0250 2.50 96.5 70-130 0.0250 0.0250 97.1 70-130 2.43 2.50 Ethylbenzene

zaryroenzene		0.0250					
Toluene	2.29	0.0250	2.50		91.6	70-130	
o-Xylene	2.41	0.0250	2.50		96.5	70-130	
p,m-Xylene	4.83	0.0500	5.00		96.7	70-130	
Total Xylenes	7.25	0.0250	7.50		96.6	70-130	
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130	
Surrogate: 1,2-Dichloroethane-d4	0.462		0.500		92.4	70-130	
Surrogate: Toluene-d8	0.494		0.500		98.7	70-130	
Matrix Spike (2431133-MS1)				Source:	E408004-	03	Prepared: 08/02/24 Analyzed: 08/02/24
Benzene	2.56	0.0250	2.50	ND	102	48-131	
Ethylbenzene	2.65	0.0250	2.50	ND	106	45-135	
Toluene	2.49	0.0250	2.50	ND	99.6	48-130	
o-Xvlene	2.67	0.0250	2.50	ND	107	43-135	

Ethylbenzene	2.65	0.0250	2.50	ND	106	45-135	
Toluene	2.49	0.0250	2.50	ND	99.6	48-130	
o-Xylene	2.67	0.0250	2.50	ND	107	43-135	
p,m-Xylene	5.31	0.0500	5.00	ND	106	43-135	
Total Xylenes	7.98	0.0250	7.50	ND	106	43-135	
Surrogate: Bromofluorobenzene	0.520		0.500		104	70-130	
Surrogate: 1,2-Dichloroethane-d4	0.485		0.500		97.0	70-130	
Surrogate: Toluene-d8	0.505		0.500		101	70-130	

Matrix Spike Dup (2431133-MSD1)				Source:	E408004-	03	Prepared: 08	8/02/24 Analyzed: 08/02/24
Benzene	2.60	0.0250	2.50	ND	104	48-131	1.76	23
Ethylbenzene	2.71	0.0250	2.50	ND	108	45-135	2.07	27
Toluene	2.54	0.0250	2.50	ND	102	48-130	1.99	24
o-Xylene	2.77	0.0250	2.50	ND	111	43-135	3.66	27
p,m-Xylene	5.52	0.0500	5.00	ND	110	43-135	3.87	27
Total Xylenes	8.29	0.0250	7.50	ND	111	43-135	3.80	27
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130		
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130		
Surrogate: Toluene-d8	0.503		0.500		101	70-130		

Surrogate: Toluene-d8

## **QC Summary Data**

WPX Energy - Carlsbad 5315 Buena Vista Dr	Project Name: Project Number:	TOMCAT 21 FEDERAL #001 01058-0007	Reported:
Carlsbad NM, 88220	Project Number: Project Manager:	Anna Byers	8/7/2024 10:08:49AM

5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager		058-0007 nna Byers				8/7.	/2024 10:08:49AN
	Non	halogenated (	Organics	by EPA 80	15D - GI	RO		A	Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2431133-BLK1)							Prepared: 0	8/02/24 Analy	yzed: 08/02/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.483		0.500		96.6	70-130			
LCS (2431133-BS2)							Prepared: 0	8/02/24 Analy	yzed: 08/02/24
Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.7	70-130			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			
Matrix Spike (2431133-MS2)				Source:	E408004-0	03	Prepared: 0	8/02/24 Analy	yzed: 08/06/24
Gasoline Range Organics (C6-C10)	44.2	20.0	50.0	ND	88.4	70-130			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.1	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			
Matrix Spike Dup (2431133-MSD2)				Source:	E408004-0	03	Prepared: 0	8/02/24 Analy	yzed: 08/02/24
Gasoline Range Organics (C6-C10)	50.1	20.0	50.0	ND	100	70-130	12.5	20	
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.1	70-130			

0.500

0.502

100

70-130



WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	8/7/2024 10:08:49AM

Carlsbad NM, 88220		Project Manage	r: Ar	ına Byers				8	3/7/2024 10:08:49AM
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2431137-BLK1)							Prepared: 0	8/02/24 An	alyzed: 08/02/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	62.2		50.0		124	50-200			
LCS (2431137-BS1)							Prepared: 0	8/02/24 An	alyzed: 08/02/24
Diesel Range Organics (C10-C28)	272	25.0	250		109	38-132			
Surrogate: n-Nonane	58.2		50.0		116	50-200			
Matrix Spike (2431137-MS1)				Source:	E408015-0	08	Prepared: 0	8/02/24 An	alyzed: 08/02/24
Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	38-132			
Surrogate: n-Nonane	60.1		50.0		120	50-200			
Matrix Spike Dup (2431137-MSD1)				Source:	E408015-	08	Prepared: 0	8/02/24 An	alyzed: 08/02/24
Diesel Range Organics (C10-C28)	266	25.0	250	ND	106	38-132	3.93	20	
Surrogate: n-Nonane	57.4		50.0		115	50-200			

WPX Energy - Carlsbad		Project Name:	Reported:						
5315 Buena Vista Dr		Project Number:		058-0007					
Carlsbad NM, 88220		Project Manager:	: Aı	nna Byers					8/7/2024 10:08:49AM
		Anions	by EPA 3	00.0/9056	4				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2431142-BLK1)							Prepared: 0	8/02/24 A	nalyzed: 08/02/24
Chloride	ND	20.0							
LCS (2431142-BS1)							Prepared: 0	8/02/24 A	nalyzed: 08/02/24
Chloride	256	20.0	250		103	90-110			
Matrix Spike (2431142-MS1)				Source:	E408015-0	)1	Prepared: 0	8/02/24 A	nalyzed: 08/02/24
Chloride	487	20.0	250	251	94.0	80-120			
Matrix Spike Dup (2431142-MSD1)				Source:	E408015-0	)1	Prepared: 0	8/02/24 A	nalyzed: 08/02/24
Chloride	521	20.0	250	251	108	80-120	6.81	20	

#### QC Summary Report Comment:

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



### **Definitions and Notes**

WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	08/07/24 10:08

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Sect   DMA   21   EDER   HO1   Section   Sec	ed	S TO THE STATE OF																					
Address: 31300 W County Rd 100   City, State, Zip: Carlsbad, NM, 88220   Analysis and Method   RCRA	ent: WPX Energy Permian, LLC.					Bill To					La	b Us	Jse Only						TAT		EPA P	rogram	
Gitty, State, Zip. Codessa, TX, 79765  One: 432-305-6415  Final: Devon-team@etechenv.com  City, State, Zip. Codessa, TX, 79765  One: 432-305-6415  Email: Jim.rale@dvn.com  WBS: 1061476201 – NM PERMIAN ABANDON Incident ID: nRM2003860041  City, State, Zip. Carisbad, NM, 88220  Analysis and Method  RCRA  WBS: 1061476201 – NM PERMIAN ABANDON Incident ID: nRM2003860041  City, State, Zip. Carisbad, NM, 88220  Analysis and Method  RCRA  NM CO UT AZ TX  Nm CO UT AZ TX  Remarks  Date Sampled Sampled Sampled Sampled Sample ID  BH01  2 12'  X 7-30-241.  Per A. Bycrs  8-2-21				No. of the last of												1	D 20	) 3	DS	tandard	CWA	SDWA	
City, State, Zip, Odessa, IX, 79765   City, State, Zip, Carleska, IM, 88220   Analysis and Method   RCRA	Maria Company					The second of th	Address: 5315 Buena Vista Dr.			E 408018			010	58	000	H			5	day TAT			
Sone: 432-305-6415 Tail: Devon-team@etechenv.com    Email: jim.raley@dvn.com   WBS: 1061476201 - NM PERMIAN ABANDON   Incident ID: nRM2003860041   State   NM   CO   UT   AZ   TX						City	, State, Zip: Carlsbad, NM, 882.	20					No. of Concession, Name of Street, or other Designation, Name of Street, or other Designation, Name of Street, Original Property and Name of Stree	-		Committee of the Commit						RCRA	
2:40 AB 27 S 1 BH01   8" X Date sampled is actually 7-30-24.  BH01   2 12'   X 7-30-24.  Per A. Byers 8-2-24				79765		Pho	ne: 575-885-7502					Mag											
2:40 AB 27 S 1 BH01   8" X Date sampled is actually 7-30-24.  BH01   2 12'   X 7-30-24.  Per A. Byers 8-2-24	-					Em	ail: jim.raley@dvn.com			3015											State		
2:40 AB 27 S 1 BH01   8'	email:	Devon-tear	n@etech	nenv.com		WB	S: 1061476201 - NM PERMIAN	ABANDON		by 8										NM CO	UT AZ	TX	
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(field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location,  Samples requiring thermal preservation must be received on ice the day they are sampled or	I, (field sa	mpler), attest t	o the validity	and authent	ticity of this s	ample. I am aware	that tampering with or intentionally mislal	pelling the samp	ole loca	tion,			Sample	s requi	ring ther	mal pres	ervation	must	be receiv	ed on ice the day	they are sam	pled or	
date or time of collection is considered fraud and may be grounds for legal action. Sampled by: GM received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.													receive	d pack	ed in ice a	at an av	temp a	bove 0	but less	than 6 °C on sub	equent days.		
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Cause, Grings 8-1-24 23:59 ALS 8/2/24/800 AVG Temp°C 4	6.	6 4	Som.	18.	-1-14	23:59	Alta	822	14	18	CX	)	AVG	Ten	no°C	4							
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other Container Type: g - glass, p - poly/plastic, ag - amber glass, v - VOA			d - Solid, Sg -	- Sludge, A -	Agueous, O -	Other	W I	Container	Type		plass	n - n				ambe	glass	V.	VOA				
Note: Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at the client expense. The report for the analysis of the above							ner arrangements are made. Hazardou	is samples wil	l be re	turne	d to cl	ient o	r disp	osed o	of at the	clien	exper	ise.	The ren	ort for the an	alysis of th	e above	

e. The report for the analysis of the above

samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Client: WPX Energy Permian, LLC.						Bill To			0.5		La	ab U	se Onl	v			TAT				EPA P	rogram
Project: TOMCAT 21 FEDERAL #001						Attention: Jim Raley			Lab WO#				Job Number				D 2	D		Standard	CWA	SDWA
Project Manager: Anna Byers					THE PARTY OF THE P	Address: 5315 Buena Vista Dr.		E408018				010580007						$\neg$	5 day TAT			
	13000 W				Cit	y, State, Zip: Carlsbad, NN	1, 88220			10					nd Met							RCRA
City, Stat	e, Zip_O	lessa,TX	79765		Pho	one: 575-885-7502	•				Γ	Г	Τİ			T	T	T	T			
	32-305-6					nail: jim.raley@dvn.com				015			1 1								State	
Email: De	evon-tear	n@etech	nenv.com		0000 0000 I	3S: 1061476201 – NM PER	MIAN A	BANDON		by 8										NM CO	UT AZ	TX
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Collected	d by: Edyt	e Konan							~	JQ/C	802	826(	9010	300					ř	×		
Time	Date	Matrix	No. of	Sample ID				Lab	Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 802	VOC by 8260	Metals 6010	Chloride 300.0			BGDOC		GDOC		Remarks	
Sampled	Sampled	iviatrix	Containers	Sample 10				Number	Dep	TPH	BTE	NOV	Me	S.			BG		GD		Remarks	
12:40	07.16.24	S	1			BH01		1	8'								х					
13:00	07.16.24	S	1			BH01		2	12'								х	_	_			
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Addition	al Instru	tions:		L									1									
I, (field samp	oler), attest t	the validit	y and authen	ticity of this sampl	e. I am awar	e that tampering with or intentional	lly mislabel	ing the samp	le loca	ation,					_					eived on ice the da		pled or
date or time	of collection	is considere	ed fraud and	may be grounds fo	r legal action								received	d pack	ed in ice a	an av	g temp	above	0 but le	ss than 6 °C on sub	sequent days.	
	ed by: (Sign	2	Date	101124 11		Microsofthy: (signature)	ales	8-1-2			30		Rece	ivec	on ice	: (	Lab		Only	/		
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	and the same and the same and	CONTRACTOR OF COMMENT	- Charles and the Control of the Con			her arrangements are made. Ha															anlysis of th	a above



samples is applicable only to those samples received by the laboratory with this COC. The liability of the laboratory is limited to the amount paid for on the report.

Printed: 8/2/2024 11:24:35AM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	08/02/24 08	3:00	Work Order ID:	E408018
Phone:	(575) 200-6754	Date Logged In:	08/01/24 16	5:16	Logged In By:	Noe Soto
Email:	anna@etechenv.vom	Due Date:	08/08/24 17	7:00 (4 day TAT)		
Chain of	Custody (COC)					
	ne sample ID match the COC?		No			
	ne number of samples per sampling site location mat	tch the COC	Yes			
	amples dropped off by client or carrier?		Yes	Carrier: <u>C</u>	<u>Courier</u>	
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes			
5. were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion	•	Yes		<u>Commen</u>	nts/Resolution
Sample T	urn Around Time (TAT)				D.4. G	4 1
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes		Date Sampled on COC	=
Sample C					7/16/24 and the contain	ners said 7/30/24,
	ample cooler received?		Yes		called A. Byers and she	e confirmed they
8. If yes, v	was cooler received in good condition?		Yes		were sampled on 7/30/2	24.
9. Was the	e sample(s) received intact, i.e., not broken?		Yes		•	
10. Were	custody/security seals present?		No			
11. If yes,	were custody/security seals intact?		NA			
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes			
Sample C		<u> </u>	<u>~</u>			
	queous VOC samples present?		No			
	OC samples collected in VOA Vials?		NA			
	head space less than 6-8 mm (pea sized or less)?		NA			
	trip blank (TB) included for VOC analyses?		NA			
	on-VOC samples collected in the correct containers'	?	Yes			
	appropriate volume/weight or number of sample contain		Yes			
Field Lab						
	— field sample labels filled out with the minimum info	ormation:				
Sa	ample ID?		Yes			
	ate/Time Collected?		Yes	·		
	ollectors name?		No			
	reservation		NT.			
	the COC or field labels indicate the samples were pr	reserved?	No			
	ample(s) correctly preserved? filteration required and/or requested for dissolved n	antolo?	NA No			
	•	ictais:	No			
	se Sample Matrix	9	2.7			
	the sample have more than one phase, i.e., multipha		No			
	does the COC specify which phase(s) is to be analy	yzea?	NA			
	act Laboratory					
	imples required to get sent to a subcontract laborator	•	No			
29. Was a	subcontract laboratory specified by the client and it	f so who?	NA S	Subcontract Lab	o: NA	
Client In	<u>struction</u>					

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

Report to:
Anna Byers





5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

## **Analytical Report**

WPX Energy - Carlsbad

Project Name: TOMCAT 21 FEDERAL #001

Work Order: E408020

Job Number: 01058-0007

Received: 8/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/7/24

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

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

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

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

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

Date Reported: 8/7/24

Anna Byers 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: TOMCAT 21 FEDERAL #001

Workorder: E408020

Date Received: 8/2/2024 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/2/2024 8:00:00AM, under the Project Name: TOMCAT 21 FEDERAL #001.

The analytical test results summarized in this report with the Project Name: TOMCAT 21 FEDERAL #001 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Field Offices:

Southern New Mexico Area

Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

**Michelle Gonzales** 

Client Representative

Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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#### **Sample Summary**

		<del>_</del>		
	WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
١	5315 Buena Vista Dr	Project Number:	01058-0007	Reported.
١	Carlsbad NM, 88220	Project Manager:	Anna Byers	08/07/24 10:14

Client Sample ID	Lab Sample ID Matri	x Sampled	Received	Container
BH02 8'	E408020-01A Soil	07/30/24	08/02/24	Glass Jar, 2 oz.



## Sample Data

WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	8/7/2024 10:14:06AM

#### BH02 8' E408020-01

		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2431133
Benzene	ND	0.0250		1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250		1	08/02/24	08/03/24	
Toluene	ND	0.0250		1	08/02/24	08/03/24	
o-Xylene	ND	0.0250		1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500		1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250		1	08/02/24	08/03/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/02/24	08/03/24	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130		08/02/24	08/03/24	
Surrogate: Toluene-d8		99.2 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2431133
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/02/24	08/03/24	
Surrogate: Bromofluorobenzene		102 %	70-130		08/02/24	08/03/24	
Surrogate: 1,2-Dichloroethane-d4		94.1 %	70-130		08/02/24	08/03/24	
Surrogate: Toluene-d8		99.2 %	70-130		08/02/24	08/03/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2431137
Diesel Range Organics (C10-C28)	ND	25.0		1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/02/24	08/03/24	
Surrogate: n-Nonane		102 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2431148
Chloride	1810	40.0	<u> </u>	2	08/03/24	08/03/24	



Ethylbenzene

**QC Summary Data** WPX Energy - Carlsbad TOMCAT 21 FEDERAL #001 Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Anna Byers 8/7/2024 10:14:06AM Volatile Organic Compounds by EPA 8260B Analyst: RKS Source RPD Reporting Spike Rec Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2431133-BLK1) Prepared: 08/02/24 Analyzed: 08/02/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND 0.0250 o-Xylene ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: Bromofluorobenzene 0.501 0.500 100 70-130 Surrogate: 1,2-Dichloroethane-d4 0.473 0.500 94.5 70-130 0.500 96.6 70-130 Surrogate: Toluene-d8 0.483 LCS (2431133-BS1) Prepared: 08/02/24 Analyzed: 08/06/24 2.41 0.0250 2.50 96.5 70-130 Benzene 2.43 2.50 97.1 70-130 0.0250 Ethylbenzene 70-130 2.29 0.0250 2.50 91.6 2.41 2.50 96.5 70-130 o-Xylene 0.0250 96.7 4.83 5.00 70-130 p,m-Xylene 0.0500 7.25 0.0250 7.50 96.6 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.523 0.500 105 70-130 0.500 92.4 70-130 Surrogate: 1,2-Dichloroethane-d4 0.462 Surrogate: Toluene-d8 0.500 70-130 0.494 Matrix Spike (2431133-MS1) Source: E408004-03 Prepared: 08/02/24 Analyzed: 08/02/24 2.56 ND 102 48-131 Benzene 0.0250 2.50

2.49	0.0250	2.50	ND	99.6	48-130				
2.67	0.0250	2.50	ND	107	43-135				
5.31	0.0500	5.00	ND	106	43-135				
7.98	0.0250	7.50	ND	106	43-135				
0.520		0.500		104	70-130				
0.485		0.500		97.0	70-130				
0.485 0.505		0.500 0.500		97.0 101	70-130 70-130				
			Source:		70-130	Prepared: 08	3/02/24	Analyzed: 08/02/24	
	0.0250		Source:	101	70-130	Prepared: 08	3/02/24	Analyzed: 08/02/24	
	2.67 5.31 7.98	2.67 0.0250 5.31 0.0500 7.98 0.0250	2.67     0.0250     2.50       5.31     0.0500     5.00       7.98     0.0250     7.50	2.67 0.0250 2.50 ND 5.31 0.0500 5.00 ND 7.98 0.0250 7.50 ND	2.67     0.0250     2.50     ND     107       5.31     0.0500     5.00     ND     106       7.98     0.0250     7.50     ND     106	2.67     0.0250     2.50     ND     107     43-135       5.31     0.0500     5.00     ND     106     43-135       7.98     0.0250     7.50     ND     106     43-135	2.67     0.0250     2.50     ND     107     43-135       5.31     0.0500     5.00     ND     106     43-135       7.98     0.0250     7.50     ND     106     43-135	2.67     0.0250     2.50     ND     107     43-135       5.31     0.0500     5.00     ND     106     43-135       7.98     0.0250     7.50     ND     106     43-135	2.67     0.0250     2.50     ND     107     43-135       5.31     0.0500     5.00     ND     106     43-135       7.98     0.0250     7.50     ND     106     43-135

2.50

0.0250

ND

106

45-135

2.65

Wiatrix Spike Dup (2431133-WiSD1)				Source.	E400004-	03	ricpared. 0	6/02/24 Allalyzeu. 06/02/24
Benzene	2.60	0.0250	2.50	ND	104	48-131	1.76	23
Ethylbenzene	2.71	0.0250	2.50	ND	108	45-135	2.07	27
Toluene	2.54	0.0250	2.50	ND	102	48-130	1.99	24
o-Xylene	2.77	0.0250	2.50	ND	111	43-135	3.66	27
p,m-Xylene	5.52	0.0500	5.00	ND	110	43-135	3.87	27
Total Xylenes	8.29	0.0250	7.50	ND	111	43-135	3.80	27
Surrogate: Bromofluorobenzene	0.524		0.500		105	70-130		
Surrogate: 1,2-Dichloroethane-d4	0.475		0.500		94.9	70-130		
Surrogate: Toluene-d8	0.503		0.500		101	70-130		

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

### **QC Summary Data**

TOMCAT 21 FEDERAL #001 WPX Energy - Carlsbad Project Name: Reported:

5315 Buena Vista Dr		Project Number	: 01	058-0007					
Carlsbad NM, 88220		Project Manager	r: A	nna Byers				8	8/7/2024 10:14:06AN
	Non	halogenated	Organics	by EPA 80	15D - Gl	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2431133-BLK1)							Prepared: 0	8/02/24 An	alyzed: 08/02/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.483		0.500		96.6	70-130			
LCS (2431133-BS2)							Prepared: 0	8/02/24 An	alyzed: 08/02/24
Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.7	70-130			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			
Matrix Spike (2431133-MS2)				Source:	E408004-	03	Prepared: 0	8/02/24 An	alyzed: 08/06/24
Gasoline Range Organics (C6-C10)	44.2	20.0	50.0	ND	88.4	70-130			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.1	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			
Matrix Spike Dup (2431133-MSD2)				Source:	E408004-	03	Prepared: 0	8/02/24 An	alyzed: 08/02/24
Gasoline Range Organics (C6-C10)	50.1	20.0	50.0	ND	100	70-130	12.5	20	
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			

0.500

0.500

0.471

0.502

70-130

70-130

94.1

100



WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	_
Carlsbad NM, 88220	Project Manager:	Anna Byers	8/7/2024 10:14:06AM

Carlsbad NM, 88220		Project Manage	r: Ar	ına Byers					8/7/2024 10:14:06AM
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2431137-BLK1)							Prepared: 0	8/02/24 Ar	nalyzed: 08/02/24
Diesel Range Organics (C10-C28)	ND	25.0							
Dil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	62.2		50.0		124	50-200			
LCS (2431137-BS1)							Prepared: 0	8/02/24 Ar	nalyzed: 08/02/24
Diesel Range Organics (C10-C28)	272	25.0	250		109	38-132			
urrogate: n-Nonane	58.2		50.0		116	50-200			
Matrix Spike (2431137-MS1)				Source:	E408015-	08	Prepared: 0	8/02/24 Ar	nalyzed: 08/02/24
Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	38-132			
Surrogate: n-Nonane	60.1		50.0		120	50-200			
Matrix Spike Dup (2431137-MSD1)				Source:	E408015-	08	Prepared: 0	8/02/24 Ar	nalyzed: 08/02/24
Diesel Range Organics (C10-C28)	266	25.0	250	ND	106	38-132	3.93	20	
Surrogate: n-Nonane	57.4		50.0		115	50-200			



WPX Energy - Carlsbad		Project Name:		OMCAT 21 F	EDERAL#	#001			Reported:
5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager		1058-0007 .nna Byers					8/7/2024 10:14:06AM
		Anions	by EPA	300.0/9056 <i>A</i>	4				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2431148-BLK1)							Prepared: 0	8/03/24 A	nalyzed: 08/03/24
Chloride	ND	20.0							
LCS (2431148-BS1)							Prepared: 0	8/03/24 A	nalyzed: 08/03/24
Chloride	259	20.0	250		104	90-110			
Matrix Spike (2431148-MS1)				Source:	E408019-	03	Prepared: 0	8/03/24 A	nalyzed: 08/03/24
Chloride	1070	20.0	250	797	109	80-120			
Matrix Spike Dup (2431148-MSD1)				Source:	E408019-	03	Prepared: 0	8/03/24 A	nalyzed: 08/03/24
Chloride	1050	20.0	250	797	99.9	80-120	2.25	20	

#### QC Summary Report Comment:

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



## **Definitions and Notes**

WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	08/07/24 10:14

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Project Information

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Page 119 of 242

Client: WPX E	Energy	Permia	n, LLC.		15/01	Bill To				La	ab Us	se On	ly				TA	Control of the Contro	EPA P	rogram
Project: TOM					A	ttention: Jim Raley		Lab	WO	#		Job			1D	2D	3D	Standard	CWA	SDW
Project Mana	ager: A	nna Bye	rs		A	ddress: 5315 Buena Vista Dr.		EL	108	500	20	DIC	5%	$+\infty$				5 day TAT		
Address: 130	000 W	County F	Rd 100		C	ity, State, Zip: Carlsbad, NM, 8	8220					Analy	sis ar	nd Metho	d					RCRA
City, State, Zi	ip_Ode	essa,TX,	79765		P	hone: 575-885-7502			T.,											
Phone: 432-3	305-64	15			E	mail: jim.raley@dvn.com			8015										State	
Email: Devon	n-team	@etech	env.com		V	VBS: 1061476201 - NM PERMI	AN ABANDON		à									NM CO	UT AZ	TX
					Ir	ncident ID: nRM2003860041			ORC											
									JRO/	121	9	9	0.00		Z		¥			
Collected by:		Konan						E.	TPH GRO/DRO/ORO by 8015	BTEX by 8023	VOC by 8260	Metals 6010	Chloride 300.0		2			×		
	npled	Matrix	No. of Containers	Sample I	D		Lab	Depth(ft.)	D H	EX	oc p	etal	hori		верос		GDOC		Remarks	
Sampled Sam	npiea		Conganes				Number	ă	1	8	>	2	ð		m	$\vdash$	9			
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Additional In	nstruct	ions:																		
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i, (field sampler), a date or time of col						are that tampering with or intentionally mi on. <u>Sampled by:</u> GM	islabelling the samp	e toca	tion,		- 1							ss than 6 °C on sub		pred or
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Sample Matrix: 5 -	- Soil, \$d		Sludge, A - A ays after re				Container	rype	. B - E	lass,	p - p	oly/pl	astic	, ag - amt	er gl	ass, v	- VOA			



Printed: 8/2/2024 1:10:30PM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	08/02/24	08:00	Work Order ID:	E408020
Phone:	(575) 200-6754	Date Logged In:	08/02/24	08:40	Logged In By:	Alexa Michaels
Email:	anna@etechenv.vom	Due Date:	08/08/24	17:00 (4 day TAT)		
<i>C</i> 1 • •	26 4 1 (606)					
	Custody (COC)		37			
	he sample ID match the COC? he number of samples per sampling site location matc	h the COC	Yes			
	samples dropped off by client or carrier?	n die coc	Yes Yes	Ci Ci		
	ne COC complete, i.e., signatures, dates/times, request	ed analyses?	Yes	Carrier: Courier		
	all samples received within holding time?	ou unung sos.	Yes			
	Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssion				Comment	s/Resolution
	<u> Furn Around Time (TAT)</u>					
6. Did th	e COC indicate standard TAT, or Expedited TAT?		Yes			
Sample (						
	sample cooler received?		Yes			
•	was cooler received in good condition?		Yes			
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes			
10. Were	custody/security seals present?		No			
11. If yes	s, were custody/security seals intact?		NA			
	ne sample received on ice? If yes, the recorded temp is 4°C, i Note: Thermal preservation is not required, if samples are minutes of sampling visible ice, record the temperature. Actual sample t	received w/i 15	Yes <u>C</u>			
Sample (	<u>Container</u>					
	iqueous VOC samples present?		No			
15. Are V	OC samples collected in VOA Vials?		NA			
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA			
17. Was a	a trip blank (TB) included for VOC analyses?		NA			
18. Are r	non-VOC samples collected in the correct containers?		Yes			
19. Is the	appropriate volume/weight or number of sample contained	ers collected?	Yes			
Field La	<u>bel</u>					
20. Were	field sample labels filled out with the minimum infor	mation:				
	Sample ID?		Yes			
	Oate/Time Collected?		Yes			
	Collectors name?		Yes			
	<u>Preservation</u> the COC or field labels indicate the samples were pre	samzad?	No			
		serveu?	NA			
	ample(s) correctly preserved?  filteration required and/or requested for dissolved me	etale?	No			
			110			
	ase Sample Matrix the sample have more than one phase, i.e., multiphase	-n	3.7			
			No			
	s, does the COC specify which phase(s) is to be analyze	zea?	NA			
	ract Laboratory					
	amples required to get sent to a subcontract laboratory a subcontract laboratory specified by the client and if		No NA	Subcontract Lab: NA		
Client I	<u>nstruction</u>					
						_

Date

Report to:
Anna Byers





5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

## **Analytical Report**

WPX Energy - Carlsbad

Project Name: TOMCAT 21 FEDERAL #001

Work Order: E408016

Job Number: 01058-0007

Received: 8/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/7/24

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

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

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

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

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

Date Reported: 8/7/24

Anna Byers 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: TOMCAT 21 FEDERAL #001

Workorder: E408016

Date Received: 8/2/2024 8:00:16AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/2/2024 8:00:16AM, under the Project Name: TOMCAT 21 FEDERAL #001.

The analytical test results summarized in this report with the Project Name: TOMCAT 21 FEDERAL #001 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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#### **Sample Summary**

_				
Γ	WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
l	5315 Buena Vista Dr	Project Number:	01058-0007	Reported.
l	Carlsbad NM, 88220	Project Manager:	Anna Byers	08/07/24 09:43

Client Sample ID	Lab Sample ID Matrix	Sampled	Received	Container
BH03 - 0.5'	E408016-01A Soil	07/30/24	08/02/24	Glass Jar, 2 oz.



## Sample Data

WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	8/7/2024 9:43:37AM

#### BH03 - 0.5' E408016-01

		Reporting					
Analyte	Result	Limit	Dil	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst: RKS			Batch: 2431129
Benzene	ND	0.0250		1	08/02/24	08/02/24	
Ethylbenzene	ND	0.0250		1	08/02/24	08/02/24	
Toluene	ND	0.0250		1	08/02/24	08/02/24	
o-Xylene	ND	0.0250		1	08/02/24	08/02/24	
p,m-Xylene	ND	0.0500		1	08/02/24	08/02/24	
Total Xylenes	ND	0.0250		1	08/02/24	08/02/24	
Surrogate: Bromofluorobenzene		99.7 %	70-130		08/02/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130		08/02/24	08/02/24	
Surrogate: Toluene-d8		105 %	70-130		08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst: RKS			Batch: 2431129
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/02/24	08/02/24	
Surrogate: Bromofluorobenzene		99.7 %	70-130		08/02/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		96.9 %	70-130		08/02/24	08/02/24	
Surrogate: Toluene-d8		105 %	70-130		08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2431137
Diesel Range Organics (C10-C28)	ND	25.0		1	08/02/24	08/03/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/02/24	08/03/24	
Surrogate: n-Nonane		105 %	50-200		08/02/24	08/03/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2431142
Chloride	49.4	20.0		1	08/02/24	08/02/24	
- morrage							



TOMCAT 21 FEDERAL #001 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Anna Byers 8/7/2024 9:43:37AM Volatile Organic Compounds by EPA 8260B Analyst: RKS Spike Source RPD Reporting Rec Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2431129-BLK1) Prepared: 08/02/24 Analyzed: 08/02/24 ND 0.0250 ND Ethylbenzene 0.0250 ND Toluene 0.0250 o-Xylene ND 0.0250 ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: Bromofluorobenzene 0.486 0.500 97.1 70-130 Surrogate: 1,2-Dichloroethane-d4 0.468 0.500 93.5 70-130 0.527 0.500 105 70-130 Surrogate: Toluene-d8 LCS (2431129-BS1) Prepared: 08/02/24 Analyzed: 08/02/24 2.26 0.0250 2.50 90.3 70-130

Benzene	2.20	0.0250	2.30	90.3	/0-130		
Ethylbenzene	2.32	0.0250	2.50	92.7	70-130		
Toluene	2.31	0.0250	2.50	92.4	70-130		
o-Xylene	2.24	0.0250	2.50	89.5	70-130		
p,m-Xylene	4.57	0.0500	5.00	91.4	70-130		
Total Xylenes	6.81	0.0250	7.50	90.8	70-130		
Surrogate: Bromofluorobenzene	0.490		0.500	98.0	70-130		
Surrogate: 1,2-Dichloroethane-d4	0.484		0.500	96.8	70-130		
Surrogate: Toluene-d8	0.514		0.500	103	70-130		

Matrix Spike (2431129-MS1)				Source:	E408014-	04	Prepared: 08/02/24 Analyzed: 08/02/24
Benzene	2.26	0.0250	2.50	ND	90.5	48-131	
Ethylbenzene	2.32	0.0250	2.50	ND	93.0	45-135	
Toluene	2.31	0.0250	2.50	ND	92.4	48-130	
o-Xylene	2.26	0.0250	2.50	ND	90.3	43-135	
p,m-Xylene	4.57	0.0500	5.00	ND	91.4	43-135	
Total Xylenes	6.83	0.0250	7.50	ND	91.0	43-135	
Surrogate: Bromofluorobenzene	0.489		0.500		97.8	70-130	
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130	
Surrogate: Toluene-d8	0.514		0.500		103	70-130	

atrix Spike Dup (2431129-MSD1)					04	Prepared: 08/02/24 Analyzed: 08/02/24		
2.25	0.0250	2.50	ND	89.9	48-131	0.709	23	
2.27	0.0250	2.50	ND	91.0	45-135	2.17	27	
2.29	0.0250	2.50	ND	91.6	48-130	0.870	24	
2.20	0.0250	2.50	ND	88.1	43-135	2.51	27	
4.43	0.0500	5.00	ND	88.7	43-135	3.01	27	
6.64	0.0250	7.50	ND	88.5	43-135	2.84	27	
0.492		0.500		98.4	70-130			
0.493		0.500		98.6	70-130			
0.513		0.500		103	70-130			
	2.27 2.29 2.20 4.43 6.64 0.492 0.493	2.27 0.0250 2.29 0.0250 2.20 0.0250 4.43 0.0500 6.64 0.0250 0.492 0.493	2.27     0.0250     2.50       2.29     0.0250     2.50       2.20     0.0250     2.50       4.43     0.0500     5.00       6.64     0.0250     7.50       0.492     0.500       0.493     0.500	2.25         0.0250         2.50         ND           2.27         0.0250         2.50         ND           2.29         0.0250         2.50         ND           2.20         0.0250         2.50         ND           4.43         0.0500         5.00         ND           6.64         0.0250         7.50         ND           0.492         0.500           0.493         0.500	2.25         0.0250         2.50         ND         89.9           2.27         0.0250         2.50         ND         91.0           2.29         0.0250         2.50         ND         91.6           2.20         0.0250         2.50         ND         88.1           4.43         0.0500         5.00         ND         88.7           6.64         0.0250         7.50         ND         88.5           0.492         0.500         98.4           0.493         0.500         98.6	2.27     0.0250     2.50     ND     91.0     45-135       2.29     0.0250     2.50     ND     91.6     48-130       2.20     0.0250     2.50     ND     88.1     43-135       4.43     0.0500     5.00     ND     88.7     43-135       6.64     0.0250     7.50     ND     88.5     43-135       0.492     0.500     98.4     70-130       0.493     0.500     98.6     70-130	2.25         0.0250         2.50         ND         89.9         48-131         0.709           2.27         0.0250         2.50         ND         91.0         45-135         2.17           2.29         0.0250         2.50         ND         91.6         48-130         0.870           2.20         0.0250         2.50         ND         88.1         43-135         2.51           4.43         0.0500         5.00         ND         88.7         43-135         3.01           6.64         0.0250         7.50         ND         88.5         43-135         2.84           0.492         0.500         98.4         70-130           0.493         0.500         98.6         70-130	

Gasoline Range Organics (C6-C10)

Surrogate: Bromofluorobenzene

#### **QC Summary Data**

WPX Energy - CarlsbadProject Name:TOMCAT 21 FEDERAL #001Reported:5315 Buena Vista DrProject Number:01058-0007Carlsbad NM, 88220Project Manager:Anna Byers8/7/20249:43:37AM

	Non	Analyst: RKS							
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2431129-BLK1)						P	repared: 0	8/02/24 Analy	vzed: 08/02/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Gurrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			

Surrogate: 1,2-Dichloroethane-d4 Surrogate: Toluene-d8	0.472 0.532		0.500 0.500		94.4 106	70-130 70-130	
Matrix Spike (2431129-MS2)				Source:	E408014-0	)4	Prepared: 08/02/24 Analyzed: 08/02/24
Gasoline Range Organics (C6-C10)	43.8	20.0	50.0	ND	87.7	70-130	
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130	
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130	

0.500

83.2

99.5

70-130

70-130

41.6

0.498

Surrogate: Toluene-d8	0.515		0.500		103	70-130		
Matrix Spike Dup (2431129-MSD2)				Source:	E408014-0	)4	Prepared: 08	8/02/24 Analyzed: 08/02/24
Gasoline Range Organics (C6-C10)	50.6	20.0	50.0	ND	101	70-130	14.4	20
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130		
Surrogate: Toluene-d8	0.534		0.500		107	70-130		



WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	8/7/2024 9:43:37AM

Carlsbad NM, 88220		Project Manage	r: Ar	ına Byers				8	/7/2024 9:43:37AN
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2431137-BLK1)							Prepared: 0	8/02/24 Ana	lyzed: 08/02/24
Diesel Range Organics (C10-C28)	ND	25.0							
il Range Organics (C28-C36)	ND	50.0							
urrogate: n-Nonane	62.2		50.0		124	50-200			
LCS (2431137-BS1)							Prepared: 0	8/02/24 Ana	lyzed: 08/02/24
Diesel Range Organics (C10-C28)	272	25.0	250		109	38-132			
urrogate: n-Nonane	58.2		50.0		116	50-200			
Matrix Spike (2431137-MS1)				Source:	E408015-	08	Prepared: 0	8/02/24 Ana	lyzed: 08/02/24
Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	38-132			
urrogate: n-Nonane	60.1		50.0		120	50-200			
Matrix Spike Dup (2431137-MSD1)				Source:	E408015-	08	Prepared: 0	8/02/24 Ana	lyzed: 08/02/24
Diesel Range Organics (C10-C28)	266	25.0	250	ND	106	38-132	3.93	20	
urrogate: n-Nonane	57.4		50.0		115	50-200			



WPX Energy - Carlsbad		Project Name:	T	OMCAT 21 F	EDERAL #	#001			Reported:
5315 Buena Vista Dr		Project Number:	01	058-0007					
Carlsbad NM, 88220		Project Manager	: A	nna Byers					8/7/2024 9:43:37AM
		Anions	by EPA 3	300.0/9056 <i>£</i>	4				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2431142-BLK1)							Prepared: 0	8/02/24 A	nalyzed: 08/02/24
Chloride	ND	20.0							
LCS (2431142-BS1)							Prepared: 0	8/02/24 A	nalyzed: 08/02/24
Chloride	256	20.0	250		103	90-110			
Matrix Spike (2431142-MS1)				Source:	E408015-0	)1	Prepared: 0	8/02/24 A	nalyzed: 08/02/24
Chloride	487	20.0	250	251	94.0	80-120			
Matrix Spike Dup (2431142-MSD1)				Source:	E408015-0	)1	Prepared: 0	8/02/24 A	nalyzed: 08/02/24
Chloride	521	20.0	250	251	108	80-120	6.81	20	

#### QC Summary Report Comment:

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



## **Definitions and Notes**

WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	08/07/24 09:43

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Received
by OC
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21/202
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Client: V	VPX Energ	y Permia	n, LLC.		Bill To		18	446	La	ab U	se Or	nly	NE GARAGE	12/2			TA	Т	EPA P	rogram
Project:	TOMCAT	21 FEDER	AL#001		Attention: Jim Raley		Lab	WO#	_		_		ber.		1D	2D	3D	Standard	CWA	SDWA
Project N	Manager:	Anna Bye	ers		Address: 5315 Buena Vista Dr.		EL	108	010	6	OIL	59	SOX Beer	77				5 day TAT		
Address	: 13000 W	County F	Rd 100		City, State, Zip: Carlsbad, NM,	88220							nd Me							RCRA
City, Sta	te, Zip_O	dessa,TX,	79765		Phone: 575-885-7502		7				Π		П		П		П			
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Sampled	Sampled	Matrix	Containers	Sample ID		Number	Dept	표	3TEX	70/	Meta	Chlo			верос		GDOC		Remarks	
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Note: Sam	ples are disc	arded 30 da	ays after re	sults are reported	unless other arrangements are made. Haza														nalysis of th	e above
					oratory with this COC. The liability of the lab															



e. The report for the analysis of the above

envirotech Inc.

Printed: 8/2/2024 12:52:23PM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

	1			•			
Client:	WPX Energy - Carlsbad	Date Received:	08/02/24	08:00		Work Order ID:	E408016
Phone:	(575) 200-6754	Date Logged In:	08/01/24	16:05		Logged In By:	Noe Soto
Email:	anna@etechenv.vom	Due Date:	08/08/24	17:00 (4 day TAT)			
Chain a	Custody (COC)						
			37				
	he sample ID match the COC?  he number of samples per sampling site location mat	tch the COC	Yes				
	samples dropped off by client or carrier?	ion the coc	Yes	a : .	~ ·		
	ie COC complete, i.e., signatures, dates/times, reques	stad analysas?	Yes Yes	Carrier: (	Courier		
	all samples received within holding time?	sied analyses:	Yes				
J. Wele a	Note: Analysis, such as pH which should be conducted in i.e. 15 minute hold time, are not included in this disucssis.		168			Comment	s/Resolution
Sample '	Turn Around Time (TAT)						
	e COC indicate standard TAT, or Expedited TAT?		Yes				
Sample	Cooler						
	sample cooler received?		Yes				
	was cooler received in good condition?		Yes				
9. Was th	ne sample(s) received intact, i.e., not broken?		Yes				
	custody/security seals present?		No				
	were custody/security seals intact?		NA				
•	ne sample received on ice? If yes, the recorded temp is 4°C,	ie 6°+2°C	Yes				
12. was u	Note: Thermal preservation is not required, if samples are minutes of sampling		res				
13. If no	visible ice, record the temperature.   Actual sample	temperature: 4°0	<u>C</u>				
Sample	<u>Container</u>						
14. Are a	queous VOC samples present?		No				
15. Are \	OC samples collected in VOA Vials?		NA				
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA				
17. Was	a trip blank (TB) included for VOC analyses?		NA				
18. Are r	on-VOC samples collected in the correct containers	?	Yes				
19. Is the	appropriate volume/weight or number of sample contain	ners collected?	Yes				
Field La	<u>bel</u>						
20. Were	field sample labels filled out with the minimum info	ormation:					
	ample ID?		Yes				
	Oate/Time Collected? Collectors name?		Yes				
	Preservation		No				
	the COC or field labels indicate the samples were pr	reserved?	No				
	ample(s) correctly preserved?	reserved:	NA				
	ofilteration required and/or requested for dissolved n	netals?	No				
			110				
	ase Sample Matrix the sample have more than one phase, i.e., multipha	ຕວາ	NT-				
	s, does the COC specify which phase(s) is to be analy		No				
		yzeu:	NA				
	ract Laboratory						
	amples required to get sent to a subcontract laborato	•	No				
29. Was	a subcontract laboratory specified by the client and it	f so who?	NA	Subcontract Lal	b: NA		
Client I	<u>nstruction</u>						

Date

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

Report to:
Anna Byers



5796 U.S. Hwy 64 Farmington, NM 87401

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





# envirotech

Practical Solutions for a Better Tomorrow

## **Analytical Report**

WPX Energy - Carlsbad

Project Name: TOMCAT 21 FEDERAL #001

Work Order: E408021

Job Number: 01058-0007

Received: 8/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/7/24

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

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

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

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

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

Date Reported: 8/7/24

Anna Byers 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: TOMCAT 21 FEDERAL #001

Workorder: E408021

Date Received: 8/2/2024 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/2/2024 8:00:00AM, under the Project Name: TOMCAT 21 FEDERAL #001.

The analytical test results summarized in this report with the Project Name: TOMCAT 21 FEDERAL #001 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

Laboratory Administrator Office: 505-632-1881

rainaschwanz@envirotech-inc.com

Field Offices:

**Southern New Mexico Area** Lynn Jarboe

Laboratory Technical Representative Office: 505-421-LABS(5227)

Cell: 505-320-4759

ljarboe@envirotech-inc.com

Michelle Gonzales

Client Representative Office: 505-421-LABS(5227)

Cell: 505-947-8222

mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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#### **Sample Summary**

_				
ſ	WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
١	5315 Buena Vista Dr	Project Number:	01058-0007	Reporteu.
l	Carlsbad NM, 88220	Project Manager:	Anna Byers	08/07/24 10:15

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH03 4'	E408021-01A	Soil	07/31/24	08/02/24	Glass Jar, 2 oz.



## Sample Data

WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	8/7/2024 10:15:39AM

#### BH03 4' E408021-01

		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2431133
Benzene	ND	0.0250		1	08/02/24	08/03/24	
Ethylbenzene	ND	0.0250		1	08/02/24	08/03/24	
Toluene	ND	0.0250		1	08/02/24	08/03/24	
o-Xylene	ND	0.0250		1	08/02/24	08/03/24	
p,m-Xylene	ND	0.0500		1	08/02/24	08/03/24	
Total Xylenes	ND	0.0250		1	08/02/24	08/03/24	
Surrogate: Bromofluorobenzene		103 %	70-130		08/02/24	08/03/24	
Surrogate: 1,2-Dichloroethane-d4		96.2 %	70-130		08/02/24	08/03/24	
Surrogate: Toluene-d8		99.8 %	70-130		08/02/24	08/03/24	
N 1 1 (10 ' 1 ED) 0017D CDO	ma/lea	/kg mg/kg		Analyst: RKS			0.401100
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Anaiyst:	KKS		Batch: 2431133
Gasoline Range Organics (C6-C10)	ND	20.0		Anaiyst:	08/02/24	08/03/24	Batch: 2431133
						08/03/24 08/03/24	Batch: 2431133
Gasoline Range Organics (C6-C10)		20.0			08/02/24		Batch: 2431133
Gasoline Range Organics (C6-C10)  Surrogate: Bromofluorobenzene		20.0	70-130		08/02/24 08/02/24	08/03/24	Batch: 2431133
Gasoline Range Organics (C6-C10)  Surrogate: Bromofluorobenzene  Surrogate: 1,2-Dichloroethane-d4		20.0 103 % 96.2 %	70-130 70-130 70-130		08/02/24 08/02/24 08/02/24 08/02/24	08/03/24 08/03/24	Batch: 2431133  Batch: 2432004
Gasoline Range Organics (C6-C10)  Surrogate: Bromofluorobenzene  Surrogate: 1,2-Dichloroethane-d4  Surrogate: Toluene-d8	ND	20.0 103 % 96.2 % 99.8 %	70-130 70-130 70-130	1	08/02/24 08/02/24 08/02/24 08/02/24	08/03/24 08/03/24	
Gasoline Range Organics (C6-C10)  Surrogate: Bromofluorobenzene  Surrogate: 1,2-Dichloroethane-d4  Surrogate: Toluene-d8  Nonhalogenated Organics by EPA 8015D - DRO/ORO	ND mg/kg	20.0 103 % 96.2 % 99.8 % mg/kg	70-130 70-130 70-130	1	08/02/24 08/02/24 08/02/24 08/02/24 KH	08/03/24 08/03/24 08/03/24	
Gasoline Range Organics (C6-C10)  Surrogate: Bromofluorobenzene  Surrogate: 1,2-Dichloroethane-d4  Surrogate: Toluene-d8  Nonhalogenated Organics by EPA 8015D - DRO/ORO  Diesel Range Organics (C10-C28)	ND mg/kg ND	20.0 103 % 96.2 % 99.8 % mg/kg 25.0	70-130 70-130 70-130	1	08/02/24 08/02/24 08/02/24 08/02/24 KH 08/05/24	08/03/24 08/03/24 08/03/24 08/05/24	
Gasoline Range Organics (C6-C10)  Surrogate: Bromofluorobenzene  Surrogate: 1,2-Dichloroethane-d4  Surrogate: Toluene-d8  Nonhalogenated Organics by EPA 8015D - DRO/ORO  Diesel Range Organics (C10-C28)  Oil Range Organics (C28-C36)	ND mg/kg ND	20.0 103 % 96.2 % 99.8 % mg/kg 25.0 50.0	70-130 70-130 70-130 50-200	1	08/02/24 08/02/24 08/02/24 08/02/24 KH 08/05/24 08/05/24 08/05/24	08/03/24 08/03/24 08/03/24 08/05/24 08/05/24	



TOMCAT 21 FEDERAL #001 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Anna Byers 8/7/2024 10:15:39AM Volatile Organic Compounds by EPA 8260B Analyst: RKS Reporting Spike Source Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Prepared: 08/02/24 Analyzed: 08/02/24 Blank (2431133-BLK1) ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND o-Xylene 0.0250 ND p,m-Xylene 0.0500 ND 0.0250 Total Xylenes Surrogate: Bromofluorobenzene 0.501 0.500 100 70-130 Surrogate: 1,2-Dichloroethane-d4 0.473 0.500 94.5 70-130 0.500 96.6 70-130 Surrogate: Toluene-d8 0.483 LCS (2431133-BS1) Prepared: 08/02/24 Analyzed: 08/06/24 2.41 0.0250 2.50 96.5 70-130 Benzene 2.43 2.50 97.1 70-130 Ethylbenzene 0.0250 2.29 0.0250 2.50 91.6 70-130 2.41 70-130 0.0250 2.50 96.5 o-Xylene 4.83 5.00 96.7 70-130 p,m-Xylene 0.0500 7.25 0.0250 7.50 96.6 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.523 0.500 105 70-130 0.500 92.4 70-130 Surrogate: 1,2-Dichloroethane-d4 0.462 70-130 Surrogate: Toluene-d8 0.494 0.500 Matrix Spike (2431133-MS1) Source: E408004-03 Prepared: 08/02/24 Analyzed: 08/02/24 48-131 2.56 0.0250 2.50 ND 45-135 Ethylbenzene 2.65 0.0250 2.50 ND 106 99.6 ND 48-130 Toluene 2.49 0.0250 2.50 2.67 0.0250 2.50 ND 107 43-135 o-Xylene 5.00 ND 106 43-135 p,m-Xylene 5.31 0.0500 Total Xylenes 7.98 0.0250 7.50 ND 106 43-135 Surrogate: Bromofluorobenzene 0.520 0.500 104 70-130

0.500

0.500

2.50

2.50

2.50

2.50

5.00

7.50

0.500

0.500

0.500

0.0250

0.0250

0.0250

0.0250

0.0500

0.0250

97.0

104

102

111

110

111

105

94.9

101

Source: E408004-03

ND

ND

ND

ND

ND

ND

70-130

70-130

48-131

45-135

48-130

43-135

43-135

43-135

70-130

70-130

70-130

1.76

2.07

1.99

3.66

3.87

3.80

0	
	envirotech Inc.

Prepared: 08/02/24 Analyzed: 08/02/24

23

27

24

27

27

27

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Bromofluorobenzene

Surrogate: 1,2-Dichloroethane-d4

Surrogate: Toluene-d8

Matrix Spike Dup (2431133-MSD1)

Surrogate: Toluene-d8

Ethylbenzene

Toluene

o-Xylene

p,m-Xylene

Total Xylenes

0.485

0.505

2.60

2.71

2.54

2.77

5.52

8.29

0.524

0.475

0.503

Surrogate: Toluene-d8

## **QC Summary Data**

WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	8/7/2024 10:15:39AM

5315 Buena Vista Dr		Project Number	: 01	058-0007					
Carlsbad NM, 88220		Project Manage		nna Byers					8/7/2024 10:15:39AM
	Nor	halogenated	Organics l	by EPA 80	15D - Gl	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2431133-BLK1)							Prepared: 0	8/02/24 A	nalyzed: 08/02/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.501		0.500		100	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.473		0.500		94.5	70-130			
Surrogate: Toluene-d8	0.483		0.500		96.6	70-130			
LCS (2431133-BS2)							Prepared: 0	8/02/24 A	nalyzed: 08/02/24
Gasoline Range Organics (C6-C10)	43.3	20.0	50.0		86.7	70-130			
Surrogate: Bromofluorobenzene	0.521		0.500		104	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		99.0	70-130			
Surrogate: Toluene-d8	0.502		0.500		100	70-130			
Matrix Spike (2431133-MS2)				Source:	E408004-	03	Prepared: 0	8/02/24 A	nalyzed: 08/06/24
Gasoline Range Organics (C6-C10)	44.2	20.0	50.0	ND	88.4	70-130			
Surrogate: Bromofluorobenzene	0.513		0.500		103	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.476		0.500		95.1	70-130			
Surrogate: Toluene-d8	0.509		0.500		102	70-130			
Matrix Spike Dup (2431133-MSD2)				Source:	E408004-	03	Prepared: 0	8/02/24 A	nalyzed: 08/02/24
Gasoline Range Organics (C6-C10)	50.1	20.0	50.0	ND	100	70-130	12.5	20	
Surrogate: Bromofluorobenzene	0.523		0.500		105	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.471		0.500		94.1	70-130			

0.500

100

70-130

0.502



WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	8/7/2024 10:15:39AM

Carlsbad NM, 88220		Project Manage	r: Ar	ına Byers				;	8/7/2024 10:15:39AN			
Nonhalogenated Organics by EPA 8015D - DRO/ORO Analyst: KH												
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit				
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes			
Blank (2432004-BLK1)							Prepared: 0	8/05/24 An	alyzed: 08/05/24			
Diesel Range Organics (C10-C28)	ND	25.0										
Dil Range Organics (C28-C36)	ND	50.0										
urrogate: n-Nonane	56.3		50.0		113	50-200						
LCS (2432004-BS1)							Prepared: 0	8/05/24 An	alyzed: 08/05/24			
Diesel Range Organics (C10-C28)	284	25.0	250		114	38-132						
urrogate: n-Nonane	58.2		50.0		116	50-200						
Matrix Spike (2432004-MS1)				Source:	E408023-	04	Prepared: 0	8/05/24 An	alyzed: 08/05/24			
Diesel Range Organics (C10-C28)	274	25.0	250	ND	110	38-132						
urrogate: n-Nonane	55.1		50.0		110	50-200						
Matrix Spike Dup (2432004-MSD1)				Source:	E408023-	04	Prepared: 0	8/05/24 An	alyzed: 08/05/24			
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	38-132	2.49	20				
Gurrogate: n-Nonane	55.1		50.0		110	50-200						



WPX Energy - Carlsbad		Project Name:		OMCAT 21 F	EDERAL #	#001		Reported:			
5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager	Project Number: 01058-0007 Project Manager: Anna Byers						8/7/2024 10:15:39AM		
		Anions	by EPA	300.0/9056 <i>A</i>	4				Analyst: DT		
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit			
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes		
Blank (2431148-BLK1)							Prepared: 0	8/03/24 A	nalyzed: 08/03/24		
Chloride	ND	20.0									
LCS (2431148-BS1)							Prepared: 0	8/03/24 A	nalyzed: 08/03/24		
Chloride	259	20.0	250		104	90-110					
Matrix Spike (2431148-MS1)				Source:	E408019-	03	Prepared: 0	8/03/24 A	nalyzed: 08/03/24		
Chloride	1070	20.0	250	797	109	80-120					
Matrix Spike Dup (2431148-MSD1)				Source:	E408019-	03	Prepared: 0	8/03/24 A	nalyzed: 08/03/24		
Chloride	1050	20.0	250	797	99.9	80-120	2.25	20			

#### QC Summary Report Comment:

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



## **Definitions and Notes**

WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	08/07/24 10:15

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



Project Information

Received by OCD: 11/21/2024 1:46:41 PM

Client: W	/PX Energ	y Permia	an, LLC.			Bill To		T		Li	ab U	se Or	ıly		Г		TA	\T	EPA P	rogram
	TOMCAT				A	tention: Jim Raley		Lab	wo	#		Job	Numb	er	1D	2D	3D	Standard	CWA	SDWA
Project N	Aanager:	Anna Bye	ers			ddress: 5315 Buena Vista Dr.		EL	10	80	21	101	558	$\omega_{z}$	-			5 day TAT		
Address:	13000 W	County	Rd 100		Ci	ty, State, Zip: Carlsbad, NM, 882	20		-					Metho	d					RCRA
City, Stat	e, Zip_O	dessa,TX,	79765		THE REAL PROPERTY.	none: 575-885-7502					Г									
Phone: 4	32-305-6	415			Er	nail: iim.raley@dvn.com		1	3015										State	
Email: D	evon-tear	n@etech	nenv.com			BS: 1061476201 - NM PERMIAN	ABANDON	1	p.								ll	NM CO	UT AZ	TX
						cident ID: nRM2003860041		1	0,00						1		ll			
									80/0	-		_	0.0		Z		_			
Collected	by: Edyt	e Konan						1 2	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0				¥	×		
Time	Date	Matrix	No of	Sample II	D.				85	X	D D	slea	orid		BGDOC		GDOC		Remarks	
Sampled	Sampled	IVIGUIA	Containers	Sample II	U		Number	Depth(ft.)	声	BTE	8	Me	₹		BG		GD		nemark.	
10:00	07.31.24	S	1			BH03	1	4'							х					
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Addition	al Instru	tions:																		
Jane Commence of the Commence	Section 4 Section Conference				ample. I am awa nds for legal actio	re that tampering with or intentionally mislat in. <u>Sampled by: GM</u>	elling the samp	le loca	tion,									rceived on ice the da less than 6 °C on sub		pled or
Relinquish	ed by: (Sign	ature)	Date		Time	Received by: (Signature) MICHELLE GONZALES	Date		Time						L	ab Us	e On	ly		
-	huge	=		01124	11:30		8-1-2	4	1	130		Rece	ived o	n ice:	(Ÿ	N		1857		
Relinquish	elle Go	ature)	Date	8 8/8	Time	Received by: (Signature)	Date		Time						_					
MICH	elle Go	nzale		1-24	1650	Camba Brygs	8-1-6			30		<u>T1</u>			T2			T3		
Relinquish	ed by: (Signa	ature)	Date	1-27	23:59	Received by: (Signature)	822	U	Time	00	5	AVG	Temp	°ر (	4					
Sample Mat	rix: S - Soil, Se	1 - Solid So					Container	Type	: R - 1	lass		_			er el	ass. v	- VO	Α		
						ther arrangements are made. Hazardou													alysis of th	e above
						The thir COS The Hability of the labour														



envirotech Page 143 of 242

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Printed: 8/2/2024 1:11:03PM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	08/02/24	08:00		Work Order ID:	E408021
Phone:	(575) 200-6754	Date Logged In:	08/02/24	09:01		Logged In By:	Alexa Michaels
Email:	anna@etechenv.vom	Due Date:		17:00 (4 day TAT)			
Chain of	Custody (COC)						
1. Does th	ne sample ID match the COC?		Yes				
2. Does th	ne number of samples per sampling site location ma	tch the COC	Yes				
3. Were sa	amples dropped off by client or carrier?		Yes	Carrier: C	Courier		
4. Was the	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes	_			
5. Were al	Il samples received within holding time?		Yes				
	Note: Analysis, such as pH which should be conducted in					Comments	s/Resolution
C1- T	i.e, 15 minute hold time, are not included in this disucssi	on.		1		Comment	STATES OF THE STATE OF THE STAT
	Urn Around Time (TAT)		Yes				
	COC indicate standard TAT, or Expedited TAT?		ies				
Sample C			Vec				
	sample cooler received?		Yes				
•	was cooler received in good condition?		Yes				
	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes,	were custody/security seals intact?		NA				
12. Was the	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling		Yes				
13. If no v	visible ice, record the temperature. Actual sample	temperature: 4°0	<u>C</u>				
Sample C	Container						
	queous VOC samples present?		No				
15. Are V	OC samples collected in VOA Vials?		NA				
16. Is the	head space less than 6-8 mm (pea sized or less)?		NA				
17. Was a	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers	?	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lab	el						
20. Were :	— field sample labels filled out with the minimum info	ormation:					
Sa	ample ID?		Yes				
	ate/Time Collected?		Yes	•			
	ollectors name?		Yes				
-	reservation	10					
	the COC or field labels indicate the samples were pr	reserved?	No				
	ample(s) correctly preserved?	. 1.0	NA				
	filteration required and/or requested for dissolved n	netais?	No				
	se Sample Matrix						
	the sample have more than one phase, i.e., multipha		No				
27. If yes,	does the COC specify which phase(s) is to be analy	yzed?	NA				
Subcontr	act Laboratory						
28. Are sa	imples required to get sent to a subcontract laborato	ry?	No				
29. Was a	subcontract laboratory specified by the client and is	f so who?	NA	Subcontract Lab	: NA		
Client In	struction						

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

Report to:
Anna Byers







5796 U.S. Hwy 64 Farmington, NM 87401

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





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Practical Solutions for a Better Tomorrow

## **Analytical Report**

WPX Energy - Carlsbad

Project Name: TOMCAT 21 FEDERAL #001

Work Order: E408015

Job Number: 01058-0007

Received: 8/2/2024

Revision: 1

Report Reviewed By:

Walter Hinchman Laboratory Director 8/7/24

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

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

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

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

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

Date Reported: 8/7/24

Anna Byers 5315 Buena Vista Dr Carlsbad, NM 88220

Project Name: TOMCAT 21 FEDERAL #001

Workorder: E408015

Date Received: 8/2/2024 8:00:16AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 8/2/2024 8:00:16AM, under the Project Name: TOMCAT 21 FEDERAL #001.

The analytical test results summarized in this report with the Project Name: TOMCAT 21 FEDERAL #001 apply to the individual samples collected, identified and submitted bearing the project name on the enclosed chain-of-custody. Subcontracted sample analyses not conducted by Envirotech, Inc., are attached in full as issued by the subcontract laboratory.

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

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

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

Respectfully,

Walter Hinchman

Laboratory Director Office: 505-632-1881 Cell: 775-287-1762

whinchman@envirotech-inc.com

Raina Schwanz

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Michelle Gonzales

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mgonzales@envirotech-inc.com

Envirotech Web Address: www.envirotech-inc.com

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## Sample Summary

WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Donoutoda	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:	
Carlsbad NM, 88220	Project Manager:	Anna Byers	08/07/24 09:42	

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04 - 0.5'	E408015-01A	Soil	07/31/24	08/02/24	Glass Jar, 2 oz.
BH04 - 4'	E408015-02A	Soil	07/31/24	08/02/24	Glass Jar, 2 oz.
BH05 - 0.5'	E408015-03A	Soil	07/31/24	08/02/24	Glass Jar, 2 oz.
BH05 - 4'	E408015-04A	Soil	07/31/24	08/02/24	Glass Jar, 2 oz.
BH06 - 0.5'	E408015-05A	Soil	07/31/24	08/02/24	Glass Jar, 2 oz.
BH06 - 4'	E408015-06A	Soil	07/31/24	08/02/24	Glass Jar, 2 oz.
BH07 - 0.5'	E408015-07A	Soil	07/31/24	08/02/24	Glass Jar, 2 oz.
BH07 - 4'	E408015-08A	Soil	07/31/24	08/02/24	Glass Jar, 2 oz.
BH08 - 0.5'	E408015-09A	Soil	07/31/24	08/02/24	Glass Jar, 2 oz.
BH08 - 4'	E408015-10A	Soil	07/31/24	08/02/24	Glass Jar, 2 oz.



WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	8/7/2024 9:42:08AM

#### BH04 - 0.5' E408015-01

		Reporting					
Analyte	Result	Limit	Dil	lution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2431129
Benzene	ND	0.0250		1	08/02/24	08/02/24	
Ethylbenzene	ND	0.0250		1	08/02/24	08/02/24	
Toluene	ND	0.0250		1	08/02/24	08/02/24	
o-Xylene	ND	0.0250		1	08/02/24	08/02/24	
p,m-Xylene	ND	0.0500		1	08/02/24	08/02/24	
Total Xylenes	ND	0.0250		1	08/02/24	08/02/24	
Surrogate: Bromofluorobenzene		97.1 %	70-130		08/02/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130		08/02/24	08/02/24	
Surrogate: Toluene-d8		105 %	70-130		08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2431129
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/02/24	08/02/24	
Surrogate: Bromofluorobenzene		97.1 %	70-130		08/02/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		96.5 %	70-130		08/02/24	08/02/24	
Surrogate: Toluene-d8		105 %	70-130		08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2431137
Diesel Range Organics (C10-C28)	29.0	25.0		1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/02/24	08/02/24	
Surrogate: n-Nonane		110 %	50-200		08/02/24	08/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2431142
Chloride	251	20.0		1	08/02/24	08/02/24	



WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	8/7/2024 9:42:08AM

#### BH04 - 4' E408015-02

Analyte	Result	Reporting Limit	Di	lution	Prepared	Analyzed	Notes
	mg/kg	mg/kg	D1	Analyst		7 Hary Zea	Batch: 2431129
Volatile Organic Compounds by EPA 8260B		0.0250		1	08/02/24	08/02/24	Batch. 2431129
Benzene	ND ND	0.0250		1	08/02/24	08/02/24	
Ethylbenzene				1	08/02/24	08/02/24	
Toluene	ND	0.0250		1	08/02/24	08/02/24	
o-Xylene	ND	0.0250		1			
p,m-Xylene	ND	0.0500		1	08/02/24	08/02/24	
Total Xylenes	ND	0.0250		1	08/02/24	08/02/24	
Surrogate: Bromofluorobenzene		97.4 %	70-130		08/02/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130		08/02/24	08/02/24	
Surrogate: Toluene-d8		104 %	70-130		08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2431129
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/02/24	08/02/24	
Surrogate: Bromofluorobenzene		97.4 %	70-130		08/02/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		99.7 %	70-130		08/02/24	08/02/24	
Surrogate: Toluene-d8		104 %	70-130		08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2431137
Diesel Range Organics (C10-C28)	ND	25.0		1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/02/24	08/02/24	
Surrogate: n-Nonane		111 %	50-200		08/02/24	08/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2431142
Chloride	557	20.0		1	08/02/24	08/02/24	



WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	8/7/2024 9:42:08AM

#### BH05 - 0.5' E408015-03

		2100010 00					
Analyte	Result	Reporting Limit	Dil	lution	Prepared	Analyzed	Notes
	mg/kg	mg/kg	- Di	Analyst		7 Hidiy Zed	Batch: 2431129
Volatile Organic Compounds by EPA 8260B				Anaryst	08/02/24	08/02/24	Batch: 2431129
Benzene	ND	0.0250		1			
Ethylbenzene	ND	0.0250		1	08/02/24	08/02/24	
Toluene	ND	0.0250		1	08/02/24	08/02/24	
o-Xylene	ND	0.0250		1	08/02/24	08/02/24	
p,m-Xylene	ND	0.0500		1	08/02/24	08/02/24	
Total Xylenes	ND	0.0250		1	08/02/24	08/02/24	
Surrogate: Bromofluorobenzene		98.3 %	70-130		08/02/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130		08/02/24	08/02/24	
Surrogate: Toluene-d8		105 %	70-130		08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2431129
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/02/24	08/02/24	
Surrogate: Bromofluorobenzene		98.3 %	70-130		08/02/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		94.5 %	70-130		08/02/24	08/02/24	
Surrogate: Toluene-d8		105 %	70-130		08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2431137
Diesel Range Organics (C10-C28)	ND	25.0		1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/02/24	08/02/24	
Surrogate: n-Nonane		117 %	50-200		08/02/24	08/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2431142
Chloride	ND	20.0		1	08/02/24	08/02/24	·



WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	8/7/2024 9:42:08AM

#### BH05 - 4' E408015-04

		E400013-04					
		Reporting					
Analyte	Result	Limit	Dilı	ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst	: RKS		Batch: 2431129
Benzene	ND	0.0250		1	08/02/24	08/02/24	
Ethylbenzene	ND	0.0250		1	08/02/24	08/02/24	
Toluene	ND	0.0250		1	08/02/24	08/02/24	
o-Xylene	ND	0.0250		1	08/02/24	08/02/24	
p,m-Xylene	ND	0.0500		1	08/02/24	08/02/24	
Total Xylenes	ND	0.0250		1	08/02/24	08/02/24	
Surrogate: Bromofluorobenzene		96.4 %	70-130		08/02/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		92.8 %	70-130		08/02/24	08/02/24	
Surrogate: Toluene-d8		104 %	70-130		08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst	: RKS		Batch: 2431129
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/02/24	08/02/24	
Surrogate: Bromofluorobenzene		96.4 %	70-130		08/02/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		92.8 %	70-130		08/02/24	08/02/24	
Surrogate: Toluene-d8		104 %	70-130		08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst	: NV		Batch: 2431137
Diesel Range Organics (C10-C28)	ND	25.0		1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/02/24	08/02/24	
Surrogate: n-Nonane		102 %	50-200		08/02/24	08/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst	: DT		Batch: 2431142
Chloride	466	20.0		1	08/02/24	08/02/24	



WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	8/7/2024 9:42:08AM

#### BH06 - 0.5' E408015-05

		2.00010 00					
Analyte	Result	Reporting Limit		ution	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2431129
Benzene	ND	0.0250		1	08/02/24	08/02/24	
Ethylbenzene	ND	0.0250		1	08/02/24	08/02/24	
Toluene	ND	0.0250		1	08/02/24	08/02/24	
o-Xylene	ND	0.0250		1	08/02/24	08/02/24	
p,m-Xylene	ND	0.0500		1	08/02/24	08/02/24	
Total Xylenes	ND	0.0250		1	08/02/24	08/02/24	
Surrogate: Bromofluorobenzene		98.7 %	70-130		08/02/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130		08/02/24	08/02/24	
Surrogate: Toluene-d8		104 %	70-130		08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	: RKS		Batch: 2431129
Gasoline Range Organics (C6-C10)	ND	20.0		1	08/02/24	08/02/24	
Surrogate: Bromofluorobenzene		98.7 %	70-130		08/02/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		98.6 %	70-130		08/02/24	08/02/24	
Surrogate: Toluene-d8		104 %	70-130		08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	: NV		Batch: 2431137
Diesel Range Organics (C10-C28)	ND	25.0		1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0		1	08/02/24	08/02/24	
Surrogate: n-Nonane	·	104 %	50-200		08/02/24	08/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	: DT		Batch: 2431142
Chloride	170	20.0		1	08/02/24	08/02/24	



WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	8/7/2024 9:42:08AM

#### BH06 - 4' E408015-06

		E408015-00					
	D 1	Reporting	D.1		D 1		27.
Analyte	Result	Limit	Dilu	ıtion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg		Analyst:	RKS		Batch: 2431129
Benzene	ND	0.0250	1	1	08/02/24	08/02/24	
Ethylbenzene	ND	0.0250	1	1	08/02/24	08/02/24	
Toluene	ND	0.0250	1	1	08/02/24	08/02/24	
o-Xylene	ND	0.0250	1	1	08/02/24	08/02/24	
p,m-Xylene	ND	0.0500	1	1	08/02/24	08/02/24	
Total Xylenes	ND	0.0250	1	1	08/02/24	08/02/24	
Surrogate: Bromofluorobenzene		98.0 %	70-130		08/02/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130		08/02/24	08/02/24	
Surrogate: Toluene-d8		106 %	70-130		08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg		Analyst:	RKS		Batch: 2431129
Gasoline Range Organics (C6-C10)	ND	20.0	1	1	08/02/24	08/02/24	
Surrogate: Bromofluorobenzene		98.0 %	70-130		08/02/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		94.0 %	70-130		08/02/24	08/02/24	
Surrogate: Toluene-d8		106 %	70-130		08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg		Analyst:	NV		Batch: 2431137
Diesel Range Organics (C10-C28)	ND	25.0	1	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	1	08/02/24	08/02/24	
Surrogate: n-Nonane		104 %	50-200		08/02/24	08/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg		Analyst:	DT		Batch: 2431142
Chloride	222	20.0	1	1	08/02/24	08/02/24	<del></del>



WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	8/7/2024 9:42:08AM

#### BH07 - 0.5' E408015-07

		E400013-07					
		Reporting					
Analyte	Result	Limit	Dilut	tion	Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	1	Analyst: RI	KS		Batch: 2431129
Benzene	ND	0.0250	1		08/02/24	08/02/24	
Ethylbenzene	ND	0.0250	1	l	08/02/24	08/02/24	
Toluene	ND	0.0250	1	Į.	08/02/24	08/02/24	
o-Xylene	ND	0.0250	1	l	08/02/24	08/02/24	
p,m-Xylene	ND	0.0500	1	l	08/02/24	08/02/24	
Total Xylenes	ND	0.0250	1	ļ	08/02/24	08/02/24	
Surrogate: Bromofluorobenzene		99.4 %	70-130		08/02/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130		08/02/24	08/02/24	
Surrogate: Toluene-d8		104 %	70-130		08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	I	Analyst: RI	KS		Batch: 2431129
Gasoline Range Organics (C6-C10)	ND	20.0	1	Į.	08/02/24	08/02/24	
Surrogate: Bromofluorobenzene		99.4 %	70-130		08/02/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		96.6 %	70-130		08/02/24	08/02/24	
Surrogate: Toluene-d8		104 %	70-130		08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	I	Analyst: N	V		Batch: 2431137
Diesel Range Organics (C10-C28)	ND	25.0	1		08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	<u> </u>	08/02/24	08/02/24	
Surrogate: n-Nonane		102 %	50-200		08/02/24	08/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	1	Analyst: Di	Γ		Batch: 2431142
Chloride	111	20.0	1		08/02/24	08/02/24	



WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	8/7/2024 9:42:08AM

#### BH07 - 4' E408015-08

	Reporting					
Result	Limit	Dilu	ition	Prepared	Analyzed	Notes
mg/kg	mg/kg		Analyst:	RKS		Batch: 2431129
ND	0.0250	1	1	08/02/24	08/02/24	
ND	0.0250	1	1	08/02/24	08/02/24	
ND	0.0250	1	1	08/02/24	08/02/24	
ND	0.0250	1	1	08/02/24	08/02/24	
ND	0.0500	1	1	08/02/24	08/02/24	
ND	0.0250	1	1	08/02/24	08/02/24	
	98.5 %	70-130		08/02/24	08/02/24	
	96.6 %	70-130		08/02/24	08/02/24	
	106 %	70-130		08/02/24	08/02/24	
mg/kg	mg/kg		Analyst:	RKS		Batch: 2431129
ND	20.0	1	1	08/02/24	08/02/24	
	98.5 %	70-130		08/02/24	08/02/24	
	96.6 %	70-130		08/02/24	08/02/24	
	106 %	70-130		08/02/24	08/02/24	
mg/kg	mg/kg		Analyst:	NV		Batch: 2431137
ND	25.0	1	1	08/02/24	08/02/24	
ND	50.0	1	1	08/02/24	08/02/24	
	97.5 %	50-200	·	08/02/24	08/02/24	
mg/kg	mg/kg		Analyst:	DT		Batch: 2431142
	ND ND ND ND ND ND ND ND ND ND ND ND ND N	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           ND         0.0250           MD         0.0250           MD         98.5 %           96.6 %         106 %           MD         20.0           98.5 %         96.6 %           106 %         106 %           mg/kg         mg/kg           ND         25.0           ND         50.0           97.5 %	Result         Limit         Dilt           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           98.5 %         70-130           96.6 %         70-130           106 %         70-130           98.5 %         70-130           96.6 %         70-130           96.6 %         70-130           106 %         70-130           mg/kg         mg/kg           ND         25.0           ND         50.0           97.5 %         50-200	Result         Limit         Dilution           mg/kg         mg/kg         Analyst:           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0250         1           ND         0.0250         1           98.5 %         70-130         70-130           mg/kg         mg/kg         Analyst:           ND         20.0         1           98.5 %         70-130         70-130           96.6 %         70-130         70-130           mg/kg         mg/kg         Analyst:           ND         25.0         1           ND         50.0         1           97.5 %         50-200	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/02/24           ND         0.0250         1         08/02/24           ND         0.0250         1         08/02/24           ND         0.0250         1         08/02/24           ND         0.0500         1         08/02/24           ND         0.0250         1         08/02/24           ND         0.0250         1         08/02/24           98.5 %         70-130         08/02/24           96.6 %         70-130         08/02/24           106 %         70-130         08/02/24           98.5 %         70-130         08/02/24           96.6 %         70-130         08/02/24           106 %         70-130         08/02/24           mg/kg         mg/kg         Analyst: NV           ND         25.0         1         08/02/24           ND         50.0         1         08/02/24           ND         50.0         1         08/02/24	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/02/24         08/02/24           ND         0.0250         1         08/02/24         08/02/24           ND         0.0250         1         08/02/24         08/02/24           ND         0.0500         1         08/02/24         08/02/24           ND         0.0250         1         08/02/24         08/02/24           ND         0.0500         1         08/02/24         08/02/24           ND         0.0250         1         08/02/24         08/02/24           ND         0.0250         1         08/02/24         08/02/24           98.5 %         70-130         08/02/24         08/02/24           96.6 %         70-130         08/02/24         08/02/24           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/02/24         08/02/24           96.6 %         70-130         08/02/24         08/02/24           96.6 %         70-130         08/02/24         08/02/24           mg/kg



WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	8/7/2024 9:42:08AM

#### BH08 - 0.5' E408015-09

		Reporting				
Analyte	Result	Limit	Dilut	tion Prepared	Analyzed	Notes
Volatile Organic Compounds by EPA 8260B	mg/kg	mg/kg	A	Analyst: RKS		Batch: 2431129
Benzene	ND	0.0250	1	08/02/24	08/02/24	
Ethylbenzene	ND	0.0250	1	08/02/24	08/02/24	
Toluene	ND	0.0250	1	08/02/24	08/02/24	
o-Xylene	ND	0.0250	1	08/02/24	08/02/24	
p,m-Xylene	ND	0.0500	1	08/02/24	08/02/24	
Total Xylenes	ND	0.0250	1	08/02/24	08/02/24	
Surrogate: Bromofluorobenzene		98.9 %	70-130	08/02/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	08/02/24	08/02/24	
Surrogate: Toluene-d8		105 %	70-130	08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Α	Analyst: RKS		Batch: 2431129
Gasoline Range Organics (C6-C10)	ND	20.0	1	08/02/24	08/02/24	
Surrogate: Bromofluorobenzene		98.9 %	70-130	08/02/24	08/02/24	
Surrogate: 1,2-Dichloroethane-d4		99.1 %	70-130	08/02/24	08/02/24	
Surrogate: Toluene-d8		105 %	70-130	08/02/24	08/02/24	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	A	Analyst: NV		Batch: 2431137
Diesel Range Organics (C10-C28)	ND	25.0	1	08/02/24	08/02/24	
Oil Range Organics (C28-C36)	ND	50.0	1	08/02/24	08/02/24	
Surrogate: n-Nonane		98.7 %	50-200	08/02/24	08/02/24	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	A	Analyst: DT		Batch: 2431142
Allions by EFA 500.0/9050A	mg/Kg	mg/kg		,		



WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	8/7/2024 9:42:08AM

#### BH08 - 4' E408015-10

Pagult			tion	Propagad	Analyzad	Notes
Kesuit	Limit	Dilu	шоп	rrepared	Analyzed	notes
mg/kg	mg/kg		Analyst: R	KS		Batch: 2431129
ND	0.0250	1	l	08/02/24	08/02/24	
ND	0.0250	1	I	08/02/24	08/02/24	
ND	0.0250	1	l	08/02/24	08/02/24	
ND	0.0250	1	l	08/02/24	08/02/24	
ND	0.0500	1	l	08/02/24	08/02/24	
ND	0.0250	1	l	08/02/24	08/02/24	
	100 %	70-130		08/02/24	08/02/24	
	96.0 %	70-130		08/02/24	08/02/24	
	105 %	70-130		08/02/24	08/02/24	
mg/kg	mg/kg		Analyst: R	KS		Batch: 2431129
ND	20.0	1	l	08/02/24	08/02/24	
	100 %	70-130		08/02/24	08/02/24	
	96.0 %	70-130		08/02/24	08/02/24	
	105 %	70-130		08/02/24	08/02/24	
mg/kg	mg/kg		Analyst: N	IV		Batch: 2431137
ND	25.0	1		08/02/24	08/03/24	
ND	50.0	1	<u> </u>	08/02/24	08/03/24	
	106 %	50-200		08/02/24	08/03/24	
mg/kg	mg/kg		Analyst: D	T		Batch: 2431142
285	20.0	1	1	08/02/24	08/02/24	
	ND ND ND ND ND ND ND ND ND ND ND ND Mg/kg ND Mg/kg	Result         Limit           mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           ND         0.0250           IOO %         96.0 %           IOO %         96.0 %	mg/kg         mg/kg           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0250           ND         0.0500           ND         0.0250           100 %         70-130           96.0 %         70-130           105 %         70-130           mg/kg         mg/kg           ND         20.0           105 %         70-130           mg/kg         mg/kg           ND         25.0           ND         50.0           106 %         50-200           mg/kg         mg/kg	Result         Limit         Dilution           mg/kg         mg/kg         Analyst: R           ND         0.0250         1           ND         0.0250         1           ND         0.0250         1           ND         0.0500         1           ND         0.0500         1           ND         0.0250         1           ND         70-130         1           96.0%         70-130         70-130           mg/kg         mg/kg         Analyst: R           ND         20.0         1           100%         70-130         1           y6.0%         70-130         70-130           mg/kg         mg/kg         Analyst: N           ND         25.0         1           ND         50.0         1           106%         50-200           mg/kg         Mg/kg         Analyst: D	Result         Limit         Dilution         Prepared           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/02/24           ND         0.0250         1         08/02/24           ND         0.0250         1         08/02/24           ND         0.0500         1         08/02/24           ND         0.0500         1         08/02/24           ND         0.0250         1         08/02/24           ND         70-130         08/02/24           96.0 %         70-130         08/02/24           105 %         70-130         08/02/24           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/02/24           105 %         70-130         08/02/24           96.0 %         70-130         08/02/24           105 %         70-130         08/02/24           105 %         70-130         08/02/24           mg/kg         mg/kg         Analyst: NV           ND         25.0         1         08/02/24           ND         50.0         1         08/02/24           ND	Result         Limit         Dilution         Prepared         Analyzed           mg/kg         mg/kg         Analyst: RKS           ND         0.0250         1         08/02/24         08/02/24           ND         0.0500         1         08/02/24         08/02/24           ND         0.0250         1         08/02/24         08/02/24           ND         0.0250         1         08/02/24         08/02/24           96.0 %         70-130         08/02/24         08/02/24           96.0 %         70-130         08/02/24         08/02/24           mg/kg         mg/kg         Analyst: RKS           ND         20.0         1         08/02/24         08/02/24           96.0 %         70-130         08/02/24         08/02/24           96.0 %         70-130         08/02/24         08/02/24           mg/kg         mg/kg         Analyst: NV           ND         50.0         1



**QC Summary Data** TOMCAT 21 FEDERAL #001 WPX Energy - Carlsbad Project Name: Reported: 5315 Buena Vista Dr Project Number: 01058-0007 Carlsbad NM, 88220 Project Manager: Anna Byers 8/7/2024 9:42:08AM Volatile Organic Compounds by EPA 8260B Analyst: RKS Source Reporting Spike Rec RPD Analyte Result Limit Level Result Rec Limits RPD Limit mg/kg mg/kg mg/kg mg/kg % % % Notes Blank (2431129-BLK1) Prepared: 08/02/24 Analyzed: 08/02/24 ND 0.0250 ND Ethylbenzene 0.0250 Toluene ND 0.0250 ND 0.0250 o-Xylene ND p,m-Xylene 0.0500 Total Xylenes ND 0.0250 Surrogate: Bromofluorobenzene 0.486 0.500 97.1 70-130 Surrogate: 1,2-Dichloroethane-d4 0.468 0.500 93.5 70-130 0.500 105 70-130 Surrogate: Toluene-d8 0.527 LCS (2431129-BS1) Prepared: 08/02/24 Analyzed: 08/02/24 2.26 0.0250 2.50 90.3 70-130 Benzene 2.32 2.50 92.7 70-130 0.0250 Ethylbenzene 70-130 2.31 0.0250 2.50 92.4 2.24 2.50 89.5 70-130 o-Xylene 0.0250 4.57 5.00 91.4 70-130 p,m-Xylene 0.0500 6.81 0.0250 7.50 90.8 70-130 Total Xylenes Surrogate: Bromofluorobenzene 0.490 0.500 98.0 70-130 0.500 96.8 70-130 Surrogate: 1,2-Dichloroethane-d4 0.484 Surrogate: Toluene-d8 0.500 70-130 0.514 Matrix Spike (2431129-MS1) Source: E408014-04 Prepared: 08/02/24 Analyzed: 08/02/24 2.26 2.50 90.5

Benzene	2.26	0.0250	2.50	ND	90.5	48-131				
Ethylbenzene	2.32	0.0250	2.50	ND	93.0	45-135				
Toluene	2.31	0.0250	2.50	ND	92.4	48-130				
o-Xylene	2.26	0.0250	2.50	ND	90.3	43-135				
p,m-Xylene	4.57	0.0500	5.00	ND	91.4	43-135				
Total Xylenes	6.83	0.0250	7.50	ND	91.0	43-135				
Surrogate: Bromofluorobenzene	0.489		0.500		97.8	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.495		0.500		98.9	70-130				
Surrogate: Toluene-d8	0.514		0.500		103	70-130				
Matrix Spike Dup (2431129-MSD1)				Source:	E408014-0	04	Prepared: 08/	/02/24	Analyzed: 08/02/	24
Benzene	2.25	0.0250	2.50	ND	89.9	48-131	0.709	23		

Matrix Spike Dup (2431129-MSD1)				Source	: E408014-	04	Prepared: 08/02/24 Analyzed: 08/02/24			
Benzene	2.25	0.0250	2.50	ND	89.9	48-131	0.709	23		
Ethylbenzene	2.27	0.0250	2.50	ND	91.0	45-135	2.17	27		
Toluene	2.29	0.0250	2.50	ND	91.6	48-130	0.870	24		
o-Xylene	2.20	0.0250	2.50	ND	88.1	43-135	2.51	27		
p,m-Xylene	4.43	0.0500	5.00	ND	88.7	43-135	3.01	27		
Total Xylenes	6.64	0.0250	7.50	ND	88.5	43-135	2.84	27		
Surrogate: Bromofluorobenzene	0.492		0.500		98.4	70-130				
Surrogate: 1,2-Dichloroethane-d4	0.493		0.500		98.6	70-130				
Surrogate: Toluene-d8	0.513		0.500		103	70-130				

Surrogate: Toluene-d8

## **QC Summary Data**

WPX Energy - Carlsbad 5315 Buena Vista Dr	Project Name: Project Number:	TOMCAT 21 FEDERAL #001 01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	8/7/2024 9:42:08AM

5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager:		058-0007 nna Byers				8/	7/2024 9:42:08AN
	Non	halogenated C	Organics l	by EPA 80	15D - GI	RO			Analyst: RKS
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2431129-BLK1)							Prepared: 0	8/02/24 Ana	lyzed: 08/02/24
Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: Bromofluorobenzene	0.486		0.500		97.1	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.468		0.500		93.5	70-130			
Surrogate: Toluene-d8	0.527		0.500		105	70-130			
LCS (2431129-BS2)							Prepared: 0	8/02/24 Ana	lyzed: 08/02/24
Gasoline Range Organics (C6-C10)	41.6	20.0	50.0		83.2	70-130			
Surrogate: Bromofluorobenzene	0.498		0.500		99.5	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.472		0.500		94.4	70-130			
Surrogate: Toluene-d8	0.532		0.500		106	70-130			
Matrix Spike (2431129-MS2)				Source:	E408014-0	04	Prepared: 0	8/02/24 Ana	lyzed: 08/02/24
Gasoline Range Organics (C6-C10)	43.8	20.0	50.0	ND	87.7	70-130			
Surrogate: Bromofluorobenzene	0.508		0.500		102	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.499		0.500		99.7	70-130			
Surrogate: Toluene-d8	0.515		0.500		103	70-130			
Matrix Spike Dup (2431129-MSD2)				Source:	E408014-0	04	Prepared: 0	8/02/24 Ana	lyzed: 08/02/24
Gasoline Range Organics (C6-C10)	50.6	20.0	50.0	ND	101	70-130	14.4	20	
Surrogate: Bromofluorobenzene	0.504		0.500		101	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.489		0.500		97.7	70-130			

0.500

0.534

107

70-130



## **QC Summary Data**

WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	Reported:
5315 Buena Vista Dr	Project Number:	01058-0007	
Carlsbad NM, 88220	Project Manager:	Anna Byers	8/7/2024 9:42:08AM

Carlsbad NM, 88220		Project Manage	r: Ar	nna Byers				8	8/7/2024 9:42:08AM
	Nonha	logenated Or	ganics by l	EPA 8015I	) - DRO	/ORO			Analyst: NV
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2431137-BLK1)							Prepared: 0	8/02/24 Ana	alyzed: 08/02/24
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	62.2		50.0		124	50-200			
LCS (2431137-BS1)							Prepared: 0	8/02/24 Ana	alyzed: 08/02/24
Diesel Range Organics (C10-C28)	272	25.0	250		109	38-132			
Surrogate: n-Nonane	58.2		50.0		116	50-200			
Matrix Spike (2431137-MS1)				Source:	E408015-	08	Prepared: 0	8/02/24 Ana	alyzed: 08/02/24
Diesel Range Organics (C10-C28)	277	25.0	250	ND	111	38-132			
Surrogate: n-Nonane	60.1		50.0		120	50-200			
Matrix Spike Dup (2431137-MSD1)				Source:	E408015-	08	Prepared: 0	8/02/24 Ana	alyzed: 08/02/24
Diesel Range Organics (C10-C28)	266	25.0	250	ND	106	38-132	3.93	20	
Surrogate: n-Nonane	57.4		50.0		115	50-200			

#### **QC Summary Data**

WPX Energy - Carlsbad		Project Name:	Т		Reported:				
5315 Buena Vista Dr Carlsbad NM, 88220		Project Number: Project Manager:		1058-0007 .nna Byers			8/7/2024 9:42:08AM		
		Anions	by EPA	300.0/9056 <i>A</i>	4				Analyst: DT
Analyte	Result	Reporting Limit	Spike Level	Source Result	Rec	Rec Limits	RPD	RPD Limit	
	mg/kg	mg/kg	mg/kg	mg/kg	%	%	%	%	Notes
Blank (2431142-BLK1)							Prepared: 0	8/02/24 A	nalyzed: 08/02/24
Chloride	ND	20.0							
LCS (2431142-BS1)							Prepared: 0	8/02/24 A	nalyzed: 08/02/24
Chloride	256	20.0	250		103	90-110			
Matrix Spike (2431142-MS1)				Source:	E408015-0	01	Prepared: 0	8/02/24 A	nalyzed: 08/02/24
Chloride	487	20.0	250	251	94.0	80-120			
Matrix Spike Dup (2431142-MSD1)				Source:	E408015-0	01	Prepared: 0	8/02/24 A	nalyzed: 08/02/24
Chloride	521	20.0	250	251	108	80-120	6.81	20	

#### QC Summary Report Comment:

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



## **Definitions and Notes**

WPX Energy - Carlsbad	Project Name:	TOMCAT 21 FEDERAL #001	
5315 Buena Vista Dr	Project Number:	01058-0007	Reported:
Carlsbad NM, 88220	Project Manager:	Anna Byers	08/07/24 09:42

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

RPD Relative Percent Difference

DNI Did Not Ignite

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

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

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



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Client: W	/PX Energ	y Permia	n, LLC.			Bi	ll To				La	ab U	Use Only				TAT				EPA Progr	
	TOMCAT 2					Attention: Jim Raley			Lab	WO#	‡			Num			2D	3D	3D Standard		CWA	SDWA
Project N	/lanager: /	Anna Bye	rs			Address: 5315 Buena	Vista Dr.		Er	861	015	)	OIC	不	-000-	+			5 day	TAT		
	13000 W		A CONTRACTOR OF THE PARTY OF TH			City, State, Zip: Carlsb	ad, NM, 88220	)							nd Metho							RCRA
City, Stat	te, Zip_Oc	lessa,TX,	79765			Phone: 575-885-7502				150												
Phone: 4	32-305-64	115				Email: jim.raley@dvn.	com		1	801											State	
Email: D	evon-tean	n@etech	env.com			WBS: 1061476201 - N	M PERMIAN A	BANDON	1	by by						1			NN	1 CO	UT AZ	TX
						Incident ID: nRM2003			1	TPH GRO/DRO/ORO by 8015												
										RO/	=	0	_	0.0		Σ		_				
Collected	d by: Edyte	e Konan							73	0/0	805	826	3010	30(				¥		. 1		
Time	Date	Matrix	No. of	Sample ID	,			Lab	Depth(ft.	GR	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0		BGDOC		20			Dawaaala	
Sampled	Sampled	IVIALIX	Containers	Sample 10	\$			Number	Dep	ТРН	BTE	NOV	Met	Chic		BGI		GDOC			Remarks	
10:20	07.31.24	S	1			BH04			0.5'							T.,						
10.20	07.31.24	3	1			BH04		1	0.5							X		- 1				
10:40	07.31.24	S	1			BH04		2	4'							\ ,,						
10.40	07.31.24	3				B1104		d	7							X						
11:00	07.31.24	S	1			BH05		3	0.5'							\ v						
11.00	07.31.24					51105		J	0.5							Х						
11:20	07.31.24	S	1			BH05		4	4'							х				- 1000 10 000		
11.20	07.51.24	3				B1103		9	-							^						
11:40	07.31.24	S	1			BH06		-	0.5							х						
11.40	07.51.24					D1100		5	0.5							^						
12:00	07.31.24	S	1			BH06		6	4'							х						
12.00	07.02.2		-					U								^						
12:20	07.31.24	S	1			BH07		7	0.5'		1					x						
12.20	07.02.27		-			51107			0.5							_^						
12:40	07.31.24	S	1			BH07		8	4'							x						
12.70	07.51.21	,				51107		G	-7							^						
13:00	07.31.24	S	1			BH08		9	0.5'							х						
						51100		1	0.5							^						
13:20	07.31.24	S	1			BH08		10	4'							x						
								C								_^						
Addition	al Instruc	tions:																				
						m aware that tampering with or		belling the san	nple lo	cation	,		1322		ring thermal ed in ice at a							ON ALLONDON
				may be grou	**************************************								receive	eu pack	ed in ice at a	ii avg te	emp abo	ve o but	iess than o	C on sub	sequent day	3.
Relinquish	ed by: (Sign	ature)	Date		Time	Refered by: (signature)	rre)	Date	1	Time	٥.						ab Us	e Onl	У			
	jugar		01	101124	11:30		Joseph dos		4		30		Rece	eived	on ice:	Y	N					
Relinquish	ed by: (Sign	ature)	Date	1-24	Time 5	Received by: (Signatu	ıre)	Date		Time	0											
Vicini	relle C	Jonga				Received by: (Signatu	92	8-1-24			30		T1			T2			<u>T3</u>			
	ed by: (Sign		Date		Time	Received by: (Signatu	ire)	Date		Time	1	1				U						
Carros	& Bre	in	8-	1-24	23:50	1 0	\	8/2/2	4	0	X	_	AVG	Tem	p°C	- 1						
Sample Ma	trix: S - Soil, S	d - Solid, Sg		Aqueous, O -			4	Container					oly/pl	astic,	ag - amb							
Note: Sam	ples are disc	carded 30 c	lays after r	esults are re	ported un	less other arrangements are	made. Hazardo	us samples w	vill be	returi	ned to	clier	nt or d	ispose	d of at the	clien	t expe	nse. T	he repor	t for the	analysis	of the
above sam	ples is appl	icable only	to those sa	imples receiv	ved by the	laboratory with this COC. The	he liability of the	laboratory is	limite	ed to	the an	moun	t paid	for on	the repor	t.						



envirotech

envirotech Inc.

Printed: 8/2/2024 12:49:13PM

#### **Envirotech Analytical Laboratory**

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	WPX Energy - Carlsbad	Date Received:	08/02/24 (	08:00		Work Order ID:	E408015
Phone:	(575) 200-6754	Date Logged In:	08/01/24	15:58		Logged In By:	Noe Soto
Email:	anna@etechenv.vom	Due Date:	08/08/24	17:00 (4 day TAT)			
Chain of	Custody (COC)						
	ne sample ID match the COC?		Yes				
	ne number of samples per sampling site location ma	tch the COC	Yes				
	amples dropped off by client or carrier?		Yes	Carrier: <u>Co</u>	<u>ourier</u>		
	e COC complete, i.e., signatures, dates/times, reques	sted analyses?	Yes				
5. Were a	Il samples received within holding time? Note: Analysis, such as pH which should be conducted in i.e, 15 minute hold time, are not included in this disucssi	•	Yes			Comments	s/Resolution
Sample T	<u>urn Around Time (TAT)</u>						
6. Did the	COC indicate standard TAT, or Expedited TAT?		Yes				
Sample C							
	sample cooler received?		Yes				
8. If yes,	was cooler received in good condition?		Yes				
9. Was the	e sample(s) received intact, i.e., not broken?		Yes				
10. Were	custody/security seals present?		No				
11. If yes	, were custody/security seals intact?		NA				
	e sample received on ice? If yes, the recorded temp is 4°C, Note: Thermal preservation is not required, if samples ar minutes of sampling visible ice, record the temperature. Actual sample	e received w/i 15	Yes C				
Sample C		<u>-</u>	_				
	queous VOC samples present?		No				
	OC samples collected in VOA Vials?		NA				
	head space less than 6-8 mm (pea sized or less)?		NA				
	trip blank (TB) included for VOC analyses?		NA				
	on-VOC samples collected in the correct containers	?	Yes				
	appropriate volume/weight or number of sample contain		Yes				
Field Lal	· ·						
	field sample labels filled out with the minimum info	ormation:					
	ample ID?		Yes				
	ate/Time Collected?		Yes	L			
C	ollectors name?		No				
	reservation						
	the COC or field labels indicate the samples were pr	reserved?	No				
	ample(s) correctly preserved?	. 1.0	NA				
24. Is lab	filteration required and/or requested for dissolved n	netals?	No				
	se Sample Matrix						
	the sample have more than one phase, i.e., multipha		No				
27. If yes	, does the COC specify which phase(s) is to be analy	yzed?	NA				
Subcontr	act Laboratory						
28. Are sa	amples required to get sent to a subcontract laborato	ry?	No				
29. Was a	subcontract laboratory specified by the client and it	f so who?	NA	Subcontract Lab:	NA		
Client Ir	nstruction_						

Date

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

## **APPENDIX G**

Correspondence & Notifications

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213



#### **Erick Herrera**

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

Sent: Tuesday, October 1, 2024 3:21 PM

**To:** Erick Herrera

Cc: Raley, Jim; Devon-Team; Bratcher, Michael, EMNRD

Subject: RE: [EXTERNAL] Devon Characterization Variance Request - Tomcat 21 Federal 1

(nRM2003860041)

Hi Erick,

Your request to remediate to Table 1 depth to groundwater standards of 51 feet-100 feet is approved. Please include a copy of this and all notifications in the remedial and/or closure reports to ensure the notifications are documented in the project file.

Kind regards,

Shelly

Shelly Wells \* Environmental Specialist-Advanced

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

From: Erick Herrera < <a href="mailto:erick@etechenv.com">erick@etechenv.com</a>>
Sent: Tuesday, October 1, 2024 1:26 PM

To: Enviro, OCD, EMNRD < OCD. Enviro@emnrd.nm.gov>

**Cc:** Raley, Jim < <u>iim.raley@dvn.com</u>>; Devon-Team < <u>Devon-Team@etechenv.com</u>>

Subject: [EXTERNAL] Devon Characterization Variance Request - Tomcat 21 Federal 1 (nRM2003860041)

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

Good afternoon,

Attached, you will find a Characterization Variance Request for the Tomcat 21 Federal 1 (Site) for Incident Number (nRM2003860041) for your review. This request proposes to use a Table I depth to ground water (DTW) range of 51-100 feet below ground surface (bgs), based on recent OSE POD and USGS data in the vicinity of the Site.

Please let me know if you have any questions or require any additional information.

Thanks,

**Erick Herrera** 

**Project Geologist** 



Work: (432) 305-6416 Cell: (281) 777-4152

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 Phone:(575) 393-6161 Fax:(575) 393-0720 District II

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170 1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 368361

#### **QUESTIONS**

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	368361
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### QUESTIONS

Prerequisites								
Incident ID (n#)	nRM2003860041							
Incident Name	NRM2003860041 TOMCAT 21 FEDERAL 1 @ 30-025-33356							
Incident Type	Produced Water Release							
Incident Status	Initial C-141 Approved							
Incident Well	[30-025-33356] TOMCAT 21 FEDERAL #001							

Location of Release Source	
Site Name	TOMCAT 21 FEDERAL 1
Date Release Discovered	01/24/2020
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	600
What is the estimated number of samples that will be gathered	10
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/30/2024
Time sampling will commence	08:30 AM

warning. Nouncation can not be less than two business days prior to conducting that sampling.	
Please provide any information necessary for observers to contact samplers	Please contact Erick Herrera at 432-305-6416 with any questions.
Please provide any information necessary for navigation to sampling site	From inter of Paduca breaks Ln and NM-128/Jal HWY, go to NE on Paduca breaks Ln3.5 mi, go N on lease Rd 1.5 mi GPS reach the Tomcat 21 Federal #001 well pad at GPS coordinates (32.2919, -103.6821).

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

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 368361

#### **CONDITIONS**

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	368361
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### CONDITIONS

Created	Condition	Condition
Ву		Date
jraley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	7/30/2024

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

811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720 District III

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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

QUESTIONS

Action 368360

#### **QUESTIONS**

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	368360
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### QUESTIONS

Prerequisites	
Incident ID (n#)	nRM2003860041
Incident Name	NRM2003860041 TOMCAT 21 FEDERAL 1 @ 30-025-33356
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-33356] TOMCAT 21 FEDERAL #001

Location of Release Source	
Site Name	TOMCAT 21 FEDERAL 1
Date Release Discovered	01/24/2020
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	600
What is the estimated number of samples that will be gathered	4
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/31/2024
Time sampling will commence	09:08 AM

Warning: Notification can not be less than two business days prior to conducting final sampling.

Please provide any information necessary for observers to contact samplers	Please contact Erick Herrera at 432-305-6416 with any questions
Please provide any information necessary for navigation to sampling site	From the intersection of Orla Rd and NM-128, head west on NM-128 for approx. 3.76 mi; turn right on Lease Rd for approx 3.74mi; left for approx. 0.70 mi; right for approx. 0.70 mi. to reach well pad located at (32.2919, -103.6821)

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

811 S. First St., Artesia, NM 88210 Phone: (575) 748-1283 Fax: (575) 748-9720

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

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 368360

#### **CONDITIONS**

Operator:	OGRID:
WPX Energy Permian, LLC	246289
Devon Energy - Regulatory	Action Number:
Oklahoma City, OK 73102	368360
	Action Type:
	[NOTIFY] Notification Of Sampling (C-141N)

#### CONDITIONS

Created	Condition	Condition
Ву		Date
jraley	Failure to notify the OCD of sampling events including any changes in date/time per the requirements of 19.15.29.12.D.(1).(a) NMAC, may result in the remediation closure samples not being accepted.	7/30/2024

## **APPENDIX H**

## **Archived Reports**

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213





# CHARACTERIZATION VARIANCE REQUEST

Prepared For:

Devon Energy Production Company, LP
5315 Buena Vista Dr.
Carlsbad, NM 88220

Site Information:

## Tomcat 21 Federal 1 Incident Number nRM2003860041

Unit F, Section 21, Township 23 South, Range 32 East

Lea County, New Mexico

(32.291623°, -103.682619°)

Carlsbad ● Houston ● Midland ● San Antonio ● Lubbock ● Hobbs ● Lafayette

#### **SYNOPSIS**

Etech Environmental & Safety Solutions, Inc. (Etech), on behalf of Devon Energy Production Company, LP (Devon), presents the following Characterization Variance Request (CVR) detailing the assessment of potential sensitive receptors relative to the Tomcat 21 Federal 1 (Site) location (**Figure 1** in **Appendix A**). Based on the results of the desktop review according to Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29, Section 12 (19.15.29.12) of the New Mexico Administrative Code (NMAC), Devon requests the proposed Site Closure Criteria to be considered based on the regional depth to groundwater assessment.

#### **SITE BACKGROUND**

On January 24, 2020, a 4-inch steel nipple connected to a ball valve on a poly flowline failed and resulted in approximately 47.875 barrels (bbls) of produced water to be released onto an adjacent pasture easement west of the Site well pad. A vacuum truck was immediately dispatched and recovered approximately 40 bbls of fluid. Devon immediately notified the New Mexico Oil and Conservation Division (NMOCD) via email on January 25, 2020, and reported the release on a Corrective Action Form C-141 (Form C-141), which was received by the NMOCD February 5, 2020, and was subsequently assigned Incident Number nRM2003860041.

#### SITE CHARACTERIZATION AND PROPOSED CLOSURE CRITERIA

Etech characterized the Site according to Table I in 19.15.29.12 of the New Mexico Administrative Code (NMAC) considering depth to groundwater and the proximity to:

- Any continuously flowing watercourse or any other significant watercourse;
- Any lakebed, sinkhole or playa lake (measured from the ordinary high-water mark);
- An occupied permanent residence, school, hospital, institution or church;
- A spring or a private, domestic fresh water well used by less than five households for domestic or stock watering purposes;
- Any freshwater well or spring;
- Incorporated municipal boundaries or a defined municipal fresh water well field covered under a municipal ordinance;
- A wetland;
- A subsurface mine;
- An unstable area (i.e. high karst potential); and
- A 100-year floodplain.

An initial desktop review referencing the *NMOCD Oil* and *Gas Map* and/or the *USGS National Water Information System: Mapper* indicated a New Mexico Office of the State Engineer (NMOSE) permitted soil boring was drilled by Vision Resources for Harvard Petroleum Company on March 9, 2023, located approximately 0.65 miles northwest of the Site (**Figure 1A** in **Appendix A**). The boring was assigned NMOSE file number C-04712. Using a truck mounted drill rig equipped with air rotary, the soil boring was advanced to a total depth of 55 feet below ground surface (bgs). No fluids were observed throughout the drilling process. Following the observation period, the boring was plugged and abandoned per the appropriate NMOSE regulations. The boring log is provided in **Appendix B**.

Based on recent (defined by less than 25 years ago from the current year) depth to groundwater measurements of multiple wells and/or soil borings located within approximately 5 miles surrounding the Site (**Figure 1A** in **Appendix A**), regional depth to groundwater is estimated to be greater than 100 feet bgs. The next closest permitted boring with recent depth to groundwater data is NMOSE permitted boring C-04815 POD 1, located approximately 1.86 miles northeast of the Site. The boring was advanced to a total depth of 55 feet bgs on April 16, 2024. No fluids were observed through the drilling process, or after

Characerization Variance Request Tomcat 21 Federal 1 Incident Number nRM2003860041 the 72-hr observation period. The next closest well with recent available data is United States Geological Survey (USGS) well 321952103400801, located 2.88 miles northeast of the Site and with a groundwater measurement of 101.55 feet bgs from January 17, 2013. Based on the desktop well review, a total of 20 recent borings including USGS wells, were utilized to estimate depth to groundwater for the Site within a 5-mile radius. The findings indicate that none of these borings show a depth to groundwater of less than 55 feet bgs.

Wells and/or soil borings with recent depth to groundwater data supporting a regional depth to groundwater greater than 100 feet bgs exist within the same 5-mile radius of the Site. However, Devon proposes to conservatively estimate depth to water at the Site to be between 51 feet and 100 feet bgs, based on the nearest and shallowest recent available depth to groundwater data. All referenced boring and/or well records are included in **Appendix B**.

The Site is located within a low karst potential area and all other potential receptors are not within the established buffers defined in NMAC 19.15.29.12. Receptor details from the site characterization are included in **Figure 1B** and **Figure 1C** in **Appendix A**.

Based on the results from the desktop review and the estimated depth to groundwater at the Site, Devon proposes the following Closure Criteria:

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria <sup>†</sup>
Chloride	Environmental Protection Agency (EPA) 300.0	10,000 milligram per kilogram (mg/kg)
Total Petroleum Hydrocarbon (TPH)	EPA 8015 M/D	2,500 mg/kg
TPH-Gasoline Range Organics (GRO)+ TPH-Deisel Range Organics (DRO)	EPA 8015 M/D	1,000 mg/kg
Benzene	EPA 8260B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8260B	50 mg/kg

<sup>&</sup>lt;sup>†</sup>The reclamation concentration requirements of 600 mg/kg chloride and 100 mg/kg TPH apply to the top 4 feet of areas to be immediately reclaimed following remediation pursuant to NMAC 19.15.17.13.

#### DEPTH TO GROUNDWATER VARIANCE REQUEST

The closest depth to groundwater data for determining the proposed Site Closure Criteria is a dry boring located 0.65 miles, which is 0.15 miles (792 feet) outside the NMOCD accepted buffer for depth to groundwater determination for Site Characterization. If a boring were to be advanced within the 0.5 mile of the Site, depth to groundwater is anticipated to be greater than 55 feet bgs based on all supporting regional depth to groundwater data. Scheduling such a soil boring would drastically increase the timeline to complete the project due to limited availability of drillers in addition to permitting and approval processes required to advance a boring. Furthermore, the Site is located in a designated low karst potential, which reduces the chance of unexpected or sudden changes in depth to groundwater and results in a more predictable depth to groundwater following surface topography. The release is located off pad and increasing the Site Closure Criteria will not inhibit vegetative growth between 0-4 feet bgs.

Devon believes this proposed variance to accept NMOSE permitted boring C-04712 and regional groundwater data for the affiliated Site Closure Criteria is equally protective of groundwater, public health, and the environment. If you have any questions or comments, please do not hesitate to contact Erick Hererra at (432) 305-6416 or <a href="mailto:erick@etechenv.com">erick@etechenv.com</a> or Joseph S. Hernandez at (432) 305-6413 or <a href="mailto:joseph@etechenv.com">joseph@etechenv.com</a>.

Characerization Variance Request Tomcat 21 Federal 1 Incident Number nRM2003860041 Sincerely,

Etech Environmental and Safety Solutions, Inc.

Erick Hererra Project Geologist

Ericl &

Joseph S. Hernandez Senior Managing Geologist

CC:

Jim Raley, Devon

New Mexico Oil Conservation Division

**Bureau of Land Management** 

#### Appendices:

Appendix A: Figure 1: Site Map

Figure 1A: Site Characterization Map – Groundwater

Figure 1B: Site Characterization Map – Surficial Receptors

Figure 1C: Site Characterization Map - Subsurface Receptors

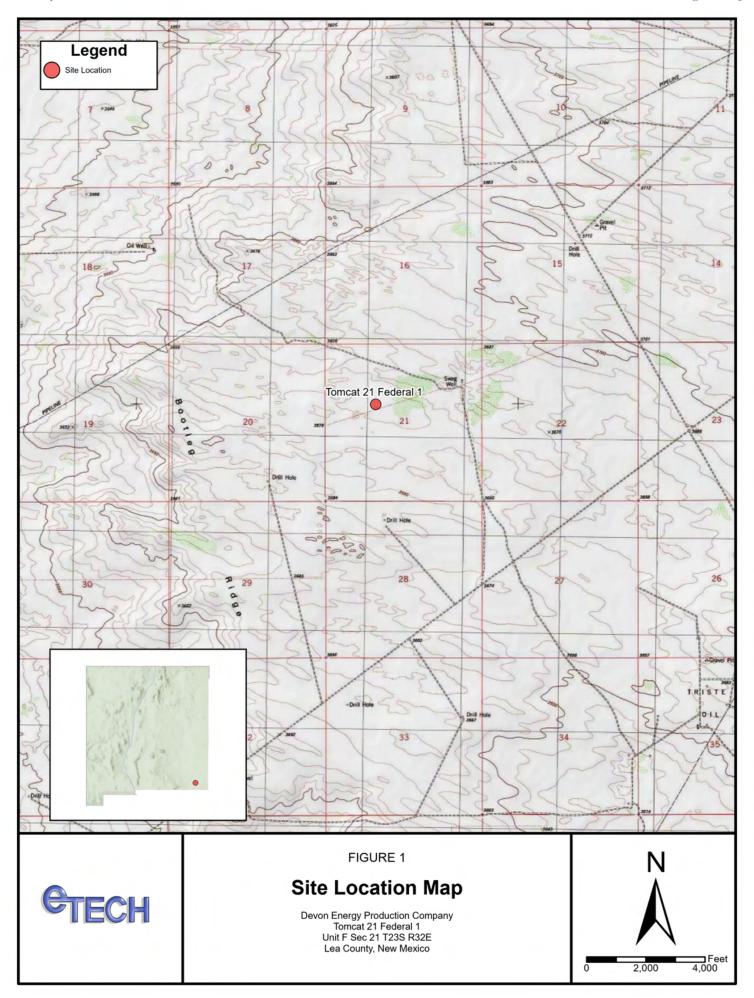
**Appendix B**: Referenced Well Records

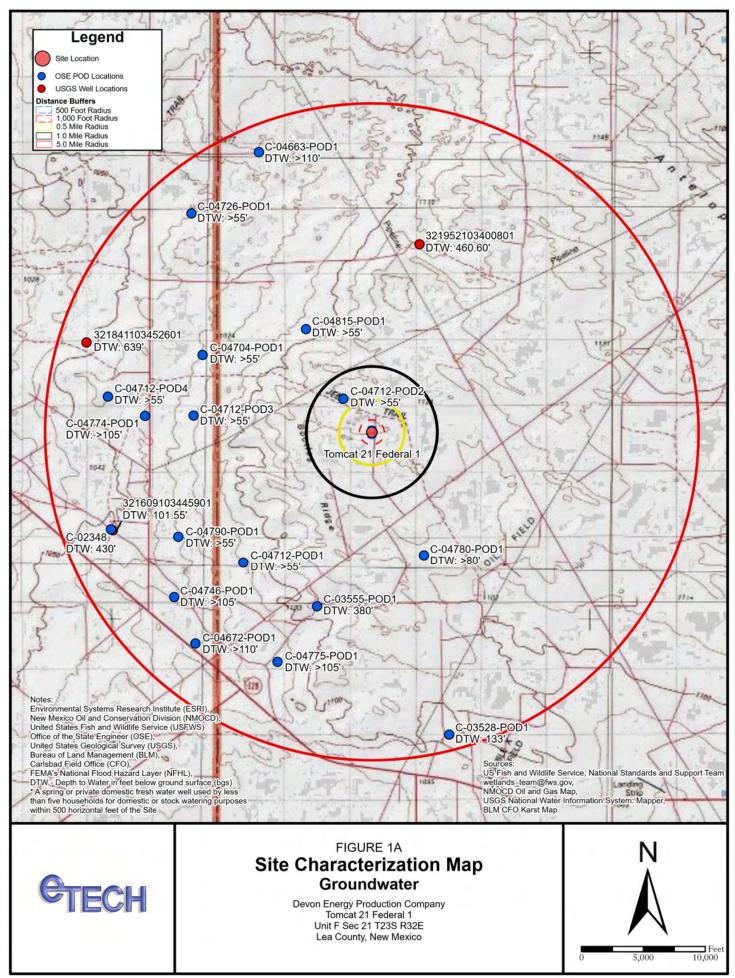
## **APPENDIX A**

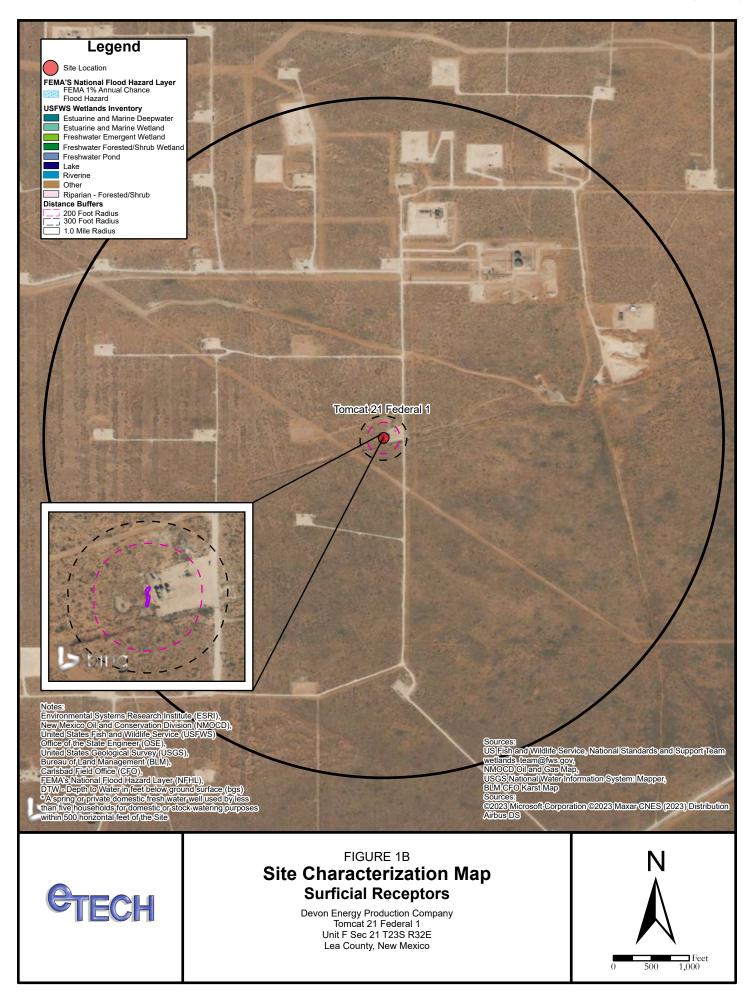
**Figures** 

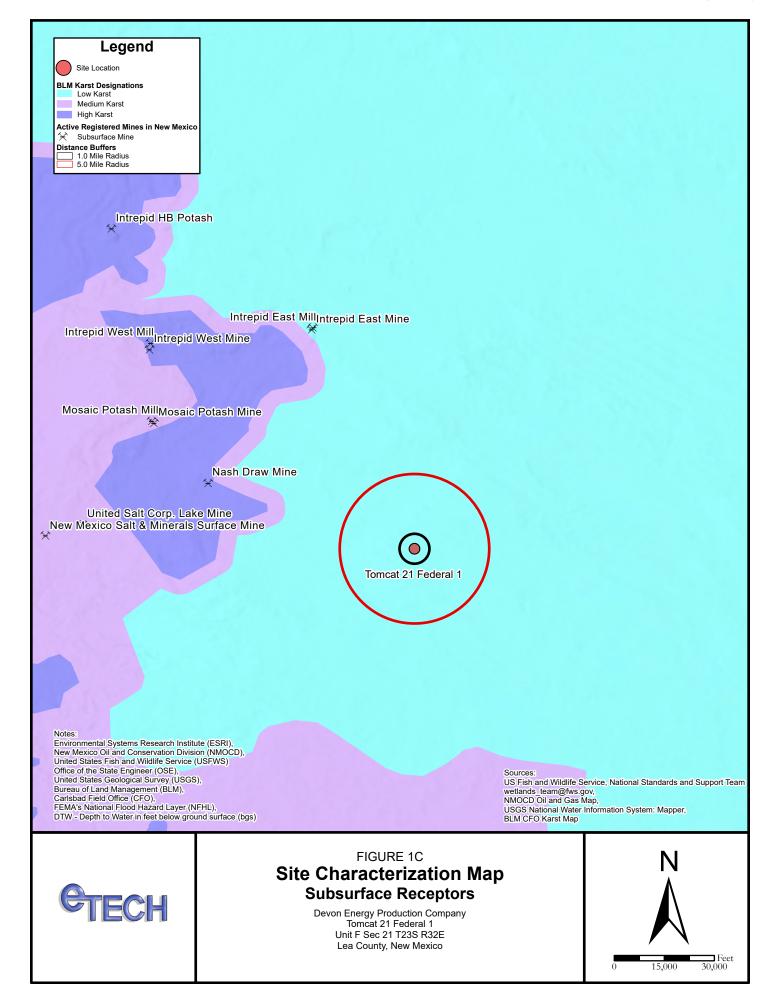
P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213











# **APPENDIX B**

# Referenced Well Records

P.O. Box 62228 Midland • TX • 79711 • Tel: 432-563-2200 • Fax: 432-563-2213





### New Mexico Office of the State Engineer

# Water Column/Average Depth to Water

(A CLW#### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are smallest to largest)

(meters)

(In feet)

water right me.)	cioseu)			Silidile	3t to 1a1	.yest)							(meters)		(III Ieet)	,
POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Мар	Distance	Well Depth		Water Column
<u>C 02216</u>		CUB	LE	NE	NE	SE	21	23S	32E	625035.0	3573261.0 *	•	1026	585	400	185
C 04712 POD2		CUB	LE	SE	SE	SE	17	23S	32E	623331.9	3574331.5		1076	55		
C 03851 POD1		CUB	LE	SW	SW	SE	20	23S	32E	622879.6	3572660.0		1447	1392	713	679
<u>C 04815 POD1</u>		CUB	LE	NW	SE	SW	80	23S	32E	622391.9	3576025.7	•	2998	55		
<u>C 04780 POD1</u>		CUB	LE	NW	SW	NW	34	23S	32E	625363.6	3570521.7	•	3278	80		
C 04807 POD1		CUB	LE	NW	NE	NW	11	23S	32E	625605.4	3577401.0		4182	105		
<u>C 04712 POD3</u>		CUB	ED	SE	NW	NE	24	23S	31E	619650.7	3573877.9		4405	55		
<u>C 04712 POD1</u>		CUB	LE	NW	SE	NW	31	23S	32E	620917.2	3570289.2	•	4496	55		
<u>C 04704 POD1</u>		CUB	ED	SW	NE	NE	13	23S	31E	619854.4	3575363.5		4574			
<u>C 02349</u>		CUB	ED	SE	NE	SW	03	23S	32E	625677.9	3578003.4		4770	525		
<u>C 04790 POD1</u>		CUB	ED	SE	SE	SW	25	23S	31E	619309.4	3570904.8	•	5408	55		
C 04774 POD1		CUB	ED	SE	NE	NE	23	23S	31E	618456.0	3573856.4		5596	105		
C 04775 POD1		CUB	LE	SE	SE	SE	06	24S	32E	621789.3	3567860.4		6093	105		
C 04746 POD1		CUB	ED	SW	SE	SW	36	23S	31E	619225.7	3569417.8		6327	105		
C 04712 POD4		CUB	ED	NW	SE	SW	14	23S	31E	617535.4	3574316.2		6554	55		
C 04672 POD 1		CUB	ED	NE	NW	SE	01	24S	31E	619762.2	3568286.5		6762	110		
<u>C 02275</u>		CUB	LE	SW	SW	NE	19	23S	33E	630843.0	3573557.0 *		6801	650	400	250
<u>C 02276</u>		CUB	LE	SW	NW	SE	19	23S	33E	630848.0	3573154.0 *		6815	650	400	250
C 04726 POD1		CUB	ED	NW	NW	SE	01	23S	31E	619538.3	3578821.3		6954			
<u>C 02777</u>		CUB	ED	SE	SE	SE	10	23S	31E	616973.8	3575662.1		7385	890		
C 03749 POD1		CUB	ED		NE	NE	15	23S	31E	616973.8	3575662.1		7385	865	639	226
C 04663 POD1		CUB	LE	SW	NW	NE	31	22S	32E	621181.3	3580341.4		7395	110		
<u>C 02350</u>		CUB	ED		SE	SW	10	24S	32E	625826.0	3566333.0 *		7407	60		
C 04551 POD1		CUB	LE	SE	SE	SW	31	23S	33E	630671.0	3569556.5		7724			
<u>C 02405</u>		CUB	ED		SE	NW	02	24S	31E	617690.0	3568631.0 *		8016	275	160	115

Average Depth to Water: 452 feet

Minimum Depth: 185 of 242

Maximum Depth: 713 feet

**Record Count: 25** 

**Basin/County Search:** 

Basin: C

Subbasin: CUB

**UTM Filters (in meters):** 

**Easting:** 624042 **Northing:** 3573522

**Radius:** 8047

\* UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



# WELL RECORD & LOG

### OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

	OSE POD NO. (	WELL NO	.)	WELL TAG ID NO.	NACHURA SOME COM	OSE FILE NO(	S).		
TION	WELL OWNER		202			BHONE (OPTI	C-4	712	
OCA	Horasand	Post	oleun Conpa			PHONE (OPTI	ONAL)		
TIT	WELL OWNER	_	G ADDRESS '	16 ¥		CITY		STATE	ZIP
) WE	P.O. Be	× 9.	SID TO CHE SPECIAL CONTRACTOR SEASON FOR			Roswell		NM 8	8202
GENERAL AND WELL LOCATION	WELL LOCATION (FROM GPS)		TITUDE	32 17 56	onds .4 N		REQUIRED: ONE TEN	TH OF A SECOND	
1. GEN	DESCRIPTION	UNIVERSAL STREET, STRE	alia rangita dinangsi antik natik meneralah	03 41 24.	MARKS - PLSS	(SECTION, TO	WNSHJIP, RANGE) WH	HERE AVAILABLE	aterit en seu groterier
	LICENSE NO.		NAME OF LICENSED	DRILLER			NAME OF WELL DR	ILLING COMPANY	
	1833 DRILLING STA	RTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	PORE HOLL	E DEPTH (FT)		esources	-
	3-9-20		3-9-2023	55	55	E DEFIH (FI)	DEPTH WATER FIR	ST ENCOUNTERED (F	1)
N.	COMPLETED V		ARTESIAN *add Centralizer info be	PDRY HOLE SHALLOW (UNC			WATER LEVEL PLETED WELL	DATE STATI	C MEASURED
ATIO	DRILLING FLU	ID:	AIR	MUD ADDITIVES – SPI	ECIFY:				
ORM	DRILLING MET	HOD:	ROTARY   HAMM	MER CABLE TOOL OTHER - SPI	ECIFY:	der Propositional Control	CHECK INSTAL	HERE IF PITLESS AD LED	APTER IS
CASING INFORMATION	DEPTH (fe	TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CONN	SING ECTION (PE ng diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
ING &									
2. DRILLING				None				:	
							OSE OIT AP	R 4 2023 PM L 12	
									-
	DEPTH (fe	et bgl)	BORE HOLE	LIST ANNULAR SEAL MATERIAL AN		PACK SIZE-	AMOUNT	METHO	OD OF
MAL	FROM	то	DIAM. (inches)	RANGE BY INTER		pacing below)	(cubic feet)	PLACE	
ATE		-	1				7		
IR M		1							
3. ANNULAR MATERIAL			1000						
AN									
FOR	OSE INTERNA	AL USE				WR-20	WELL RECORD &	& LOG (Version 09/	22/2022)
			- POA 2	POD NO.	2	TRNN	0. 7471	24	

WELL TAG ID NO.

PAGE 1 OF 2

LOCATION Mon 23. 32. 17. 444

WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
Y (N)	(SI ==)
Y N	
Y N	
Y N	4
Y N	-
Y N	
Y N	
Y N	
Y N	
Y N	1
Y N	
Y N	1-
Y N	
Y N	
Y N	1
Y . N	
Y N	
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Y N	
Y N	
Y N	1
TOTAL ESTIMATED WELL YIELD (gpm):	Dry
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+ 35	
FRUCTION OTHER T	
F, THE FOREGOING CORD WITH THE ST	IS A TRUE AN
3/24 8	IJ
R	3/24/6 DATE

2

POD NO.

TRN NO.

WELL TAG ID NO.

PAGE 2 OF 2

LOCATION Nuon 23.32.17.444

FILE NO. 🧷

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

# STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr:

743189

File Nbr:

C 04712

Well File Nbr: C 04712 POD2

Apr. 04, 2023

VERTEX RESOURCES
P.O. BOX 936
ROSWELL, NM 88202

Greetings:

The above numbered permit was issued in your name on 02/21/2023.

The Well Record was received in this office on 04/04/2023, stating that it had been completed on 03/09/2023, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 02/21/2024.

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

Sincerely,

Maret Thompson (575) 622-6521



	OSE POD NO. ( C-04815	WELL NO.	1 13	'	WELL TAG ID NO	).		OSE FILE NO(S	•			
	WELL OWNER	NAME(S)				251	100	PHONE (OPTIO	- 8			-
	Devon Energ											
	WELL OWNER							CITY			ATE	ZIP
	205 E. Bende	er Road 7	#150					Hobbs		NN	M 88240	
	WELL		DE	GREES	MINUTES	SECONDS						
	LOCATION	_	TITUDE	32	18	51.8	N	* ACCURACY			OF A SECOND	
	(FROM GPS)	LON	NGITUDE	-103	41	59.4	W	* DATUM REC	OIRED: WGS 8	4	MILLER MENTER BUILDING AND ALTER OF THE	
STATE STATE OF	DESCRIPTION	RELATIN	G WELL LOCATION TO	STREET ADDRES	SS AND COMMO	N LANDMARKS	- PLS	SS (SECTION, TO	WNSHJIP, RAN	GE) WHERE	AVAILABLE	
	LICENSE NO.		NAME OF LICENSED	DRILLER			7.77		NAME OF W	ELL DRILLI	NG COMPANY	
	1833				Jason Maley					Vision	n Resources	
	DRILLING STA 4-16-2		DRILLING ENDED 4-16-24	DEPTH OF COM	PLETED WELL (F 55'	FT) BOI	RE HO	LE DEPTH (FT) 55'	DEPTH WAT		NCOUNTERED (FT N/A	)
	COMPLETED	WELL IS:	ARTESIAN *add Centralizer info bel	DRY HOLE	SHALLO	OW (UNCONFIN	ED)		WATER LEVEI PLETED WELL	0'	DATE STATIC	
	DRILLING FLU	JID:	<b>✓</b> AIR	MUD	ADDITIV	VES - SPECIFY:			1	-3		
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1000	DEPTH (f	eet bgl)	BORE HOLE		ATERIAL AN	D/OR	C	ASING	CASIN	G (	CASING WALL	SLO
	FROM	то	DIAM (inches)	(include ea	ch casing string	, and		NECTION TYPE ling diameter)	INSIDE D		THICKNESS (inches)	SIZE (inche
	0	45	6"	PV	C 2" SCH40			hread	2"		SCH40	N/A
	45	55	6"	PV	C 2" SCH40	14	7	hread	2"		SCH40	.02
	2 2	_				-	_	1.2				+
	2 1 2										13/13	+
				-					OSE OF	FAPR 2	5 2024 PM2:3	7
							20	73.5				
								- 3 70				
								7				-
				LICT ANNUI	AR SEAL MATE	PIAL AND G	PAVE	I PACK SIZE				
	DEPTH (f	eet bgl)	BORE HOLE	LIST ANNUL		BY INTERVAL		LIACK SIZE		UNT	METHO PLACE	
	FROM	ТО	DIAM. (inches)	*(if using Cent	ralizers for Artes			e spacing below)	(cubi	c feet)	PLACE	MENI
					None pull	ed and plugge	d				71	
							100					
			-		114		_					
	17				1		_					
\ D	OSE INTERN	IAI IICE	7 9 9 9					WR-2	0 WELL RE	CORD & I	OG (Version 09/	22/2022)
	COSE INTERN	AL USE						** IX-2				

			ARTHUR HISTORY LINES AND	NUMBER OF STREET				EDGE CONTRACTOR OF THE CONTRAC	T	HE SHOW HAD		EGEN (A TEN
	FROM	feet bgl) TO	THICKNESS (feet)	INCLUDE WATE	D TYPE OF MATER R-BEARING CAVIT plemental sheets to	TIES OR	R FRACT	TURE ZONE	S	WAT BEAR (YES	ING?	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	10	10'		Brown sand with	caliche		7 1		Y	✓ N	
	10	30	20'	197	Tan fine sand with	small ro	ck	(A)	12.0	Y	✓ N	
	30	55	25'		Tan fine sa	nd	- 4 -7	Te a Barrier	- 54	Y	✓ N	
										Y	N	
				7						Y	N	
7				1				25	3	Y	N	
4. HYDROGEOLOGIC LOG OF WELL								· 35	7	Y	N	
OF										Y	N	
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ICL							The state of	13.8		Y	N	
507				3, 27- 15			e di			Y	N	
EOI								M		Y	N	
ROC							300			Y	N	
TYD							100			Y	N	
4.1		3,-5					5 %	4		Y	N	
										Y	N	
							A n	1 8		Y	N	
							10%			Y	N	
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							147			Y	N	7.5
										Y	N	
	METHOD U		_	OF WATER-BEARING	G STRATA: HER – SPECIFY:D	ry hole			TOTAL		MATED (gpm):	0
N.	WELL TES	T TEST	RESULTS - ATT	ACH A COPY OF DAT ME, AND A TABLE SH	A COLLECTED DU	JRING V GE ANI	WELL T	ESTING, INC	CLUDING ER THE	G DISC	HARGE IG PERIO	METHOD, DD.
/ISION	MISCELLA	NEOUS IN	FORMATION:					nnselmesahisabib				
5. TEST; RIG SUPERV								C	ISE OI	APR	25 202	24 PM2137
EST	PRINT NAM	ME(S) OF D	RILL RIG SUPER	RVISOR(S) THAT PRO	VIDED ONSITE SU	PERVIS	SION OF	WELL CON	NSTRUC'	TION O	THER T	HAN LICENSEE:
5. T	Jason Maley											
SIGNATURE	CORRECT	RECORD C	OF THE ABOVE I	FIES THAT, TO THE B DESCRIBED HOLE AN 80 DAYS AFTER COM	ID THAT HE OR SE	IE WILI	L FILE 7	GE AND BEI THIS WELL	LIEF, TH RECORI	E FORE WITH	EGOING THE ST	IS A TRUE AND ATE ENGINEER
6.9		/SIGNAT	TURE OF DRILLE	ER / PRINT SIGNEE	NAME		_	-		101	DATE	
		1	III III III III III III III III III II	ne at the transfer of the discountille.		C COMPANIES	20050000000	DESCRIPTION AND DESCRIPTION OF THE PERSON OF				
	R OSE INTER				non vic							ersion 09/22/2022)
		04815		1117	POD NO.		4	TRN NO.	75	144	0	PAGE 2 OF 2
LO	CATION 7	-35.	32E.08.	145			WELL	TAG ID NO.				PAGE 2 OF 2

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

#### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: File Nbr: 757440 C 04815

Well File Nbr: C 04815 POD1

Apr. 25, 2024

CHANCE DIXON VERTEX RESOURCE SERVICES INC 3101 BOYD DRIVE CARLSBAD, NM 88220

Greetings:

The above numbered permit was issued in your name on 03/14/2024.

The Well Record was received in this office on 04/25/2024, stating that it had been completed on 04/16/2024, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 03/14/2025.

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

Sincerely,

Rodolfo Chavez (575) 622 - 6521

Rodolfo Chaus



z	OSE POD NO. C-04780 PO		0.)		WELL TAG ID NO.			OSE FILE NO(S			
CATIO	WELL OWNE		)					PHONE (OPTIO	ONAL)		
AND WELL LOCATION	WELL OWNE							CITY Midland		STATE TX	79705
1. GENERAL AND	WELL LOCATION (FROM GP) DESCRIPTION	S) LO	TITUDE	GGREES 32 -103  STREET ADDRE	MINUTES 15 40 ESS AND COMMON	\$ECONDS 51.8862 8.3748 LANDMARK	W	* DATUM REG	REQUIRED: ONE TENT QUIRED: WGS 84 WNSHJIP, RANGE) WH		
	LICENSE NO WD-1		NAME OF LICENSED		Bryce Wallace	7			NAME OF WELL DR	ILLING COMPANY  Orillers Corporation	
	DRILLING ST 10/27		DRILLING ENDED 10/27/23	DEPTH OF COM	PLETED WELL (FT	) BO	RE HO	LE DEPTH (FT)	DEPTH WATER FIRS	ST ENCOUNTERED (F N/A	T)
N	COMPLETED	WELL IS:	ARTESIAN	✓ DRY HOLE	SHALLOV	W (UNCONFI	NED)		WATER LEVEL PLETED WELL N	/ A	C MEASURED
ATIO	DRILLING FI		✓ AIR	MUD		ES – SPECIFY			Lauray	HERE IF BITLESS AR	A PATED IC
ORM	DRILLING M		ROTARY HAM!	MER CABLI	E TOOL OTHE	ER – SPECIFY			INSTAL	HERE IF PITLESS AD LED	APIERIS
& CASING INFORMATION	FROM	TO	BORE HOLE DIAM (inches)	(include ea	MATERIAL AND GRADE ach casing string, a ections of screen)	and	CON	ASING NECTION TYPE oling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
NG & C.			6		N/A						
2. DRILLING									OSE OII W	3U 7 2023 PM1	138
.1	DEPTH (	(feet bgl)	BORE HOLE		T ANNULAR SE				AMOUNT	METH	
ERIAI	FROM	ТО	DIAM. (inches)	GRAV	EL PACK SIZE-	I/A	INTE	ERVAL	(cubic feet)	PLACE	EMENT
RMAT											
3. ANNULAR MATERIAL											
FOR	OSE INTER	NAL USE						WR-2	) WELL RECORD	& LOG (Version 01)	/28/2022)
FILE	NO. C-	047	80		POD NO.			TRN	10. 7519Z	(	
LOC	ATION 2	55.3	ZE. 34. 13					WELL TAG II	O NO.	PAG	E 1 OF 2

	DEPTH (	feet bgl)		COLOR AND TYPE OF MA	TEDIAL ENCOL	INTERED		WA TED	ESTIMATED
	FROM	то	THICKNESS (feet)	INCLUDE WATER-BEARING CA	AVITIES OR FRA	ACTURE ZONE	S	WATER BEARING? (YES / NO)	YIELD FOR WATER- BEARING ZONES (gpm)
	0	5	5	RED SAND	/CALICHE			Y ✓N	
	5	10	5	RED TAI	N SAND			Y ✓N	
	10	15	5	RED TAN SANI	D W/ CALICHE			Y ✓N	
	15	20	5	CALICHE W	TAN SAND			Y ✓N	
	20	25	5	RED TAN SANI	D W/ CALICHE			Y ✓N	
T	25	35	5	TAN SAND/SMALI	L CALICHE RO	CK		Y ✓ N	
WEI	35	80	45	TAN/RED SAND W/ SM	MALL CALICHE	ROCK		Y ✓N	
OF								Y N	
507								Y N	
ICI:								Y N	
007								Y N	
GEO								Y N	
4. HYDROGEOLOGIC LOG OF WELL								Y N	
нуг								Y N	
4								Y N	
								Y N	
								Y N	
								Y N	
								Y N	
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								Y N	
	METHOD U			OF WATER-BEARING STRATA:  BAILER OTHER – SPECIFY	7.			ESTIMATED YIELD (gpm):	0.00
	PUM		IR LIFT	BAILER OTHER - SPECIFY	:				
NO	WELL TES			ACH A COPY OF DATA COLLECTED ME, AND A TABLE SHOWING DISCH		,			,
TEST; RIG SUPERVISION	MISCELLA	NEOUS IN	FORMATION:				05E 0	IT NOU ? 202	13 PM 1   138
5. TEST	PRINT NAM	ME(S) OF D	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE	SUPERVISION	OF WELL CON	STRUCT	ION OTHER TH	AN LICENSEE:
SIGNATURE	CORRECT	RECORD C	F THE ABOVE D	IES THAT, TO THE BEST OF HIS OR DESCRIBED HOLE AND THAT HE OR 0 DAYS AFTER COMPLETION OF W	SHE WILL FIL	E THIS WELL			
6. SIGNA		/ w/	1	Bryce Wallace				11/01/23	
	<i>V</i>	SIGNAT	URE OF DRILLE	R / PRINT SIGNEE NAME				DATE	
FOF	R OSE INTER	NAL USE				WR-20 WE	LL RECO	RD & LOG (Ver	sion 01/28/2022)
		2478	O	POD NO.		TRN NO.	7519		
LOC			ZE. 34.	131	WEI	LL TAG ID NO.		,	PAGE 2 OF 2

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

# STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: File Nbr: 751921 C 04780

Well File Nbr: C 04780 POD1

Nov. 14, 2023

BLAKE GROOMS
EOG RESOURCES
5509 CHAMPIONS DR.
MIDLAND, TX 79705

Greetings:

The above numbered permit was issued in your name on 10/11/2023.

The Well Record was received in this office on 11/07/2023, stating that it had been completed on 10/27/2023, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 10/10/2024.

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

Sincerely,

Rodolfo Chavez (575) 622-6521

Rodly Charing

PAGE 1 OF 2

WELL TAG ID NO.



# WELL RECORD & LOG

### OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

100.00	OSE POD NO. (	WELL NO.)	0 2	WELL TAG ID NO.		OSE FILE NO(S	S).	1712	
ŀ	WELL OWNER	NAME(S)	POD 3			PHONE (OPTIO		1112	-
	Harvard WELL OWNER	Perro	oleum Comp ADDRESS	as X		CITY		STATE	ZIP
	P.O.Bo	_				Roswell			3202
	WELL	LATI	CHARLES AND ROLL OF THE PARTY OF THE PARTY OF	GREES MINUTES SECONDS 17 43.		* ACCURACY	REQUIRED: ONE TEN		
	(FROM GPS)	LON		STREET ADDRESS AND COMMON LANDM	NAME OF BRIDE OF BRIDE		QUIRED: WGS 84	EDE AVAN ADVE	
	DESCRIPTION	RELATING	G WELL LOCATION TO	STREET ADDRESS AND COMMON LANDM	AKKS - PLS	s (SECTION, TO	wnshjip, kange) wh	ERE AVAILABLE	
	LICENSE NO.	T	NAME OF LICENSED	DRILLER			NAME OF WELL DR	ILLING COMPANY	
	1833 DRILLING STA	ARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOL	E DEPTH (FT)		OUCES ST ENCOUNTERED (FT	)
	3-9-20		3-9-2023	55	55		Dcx	( )	
	COMPLETED		ARTESIAN *add Centralizer info bel	DRY HOLE SHALLOW (UNCO	ONFINED)		WATER LEVEL PLETED WELL	DATE STATIO	MEASURI
	DRILLING FLU		AIR	MUD ADDITIVES – SPE			CHECK	HERE IF PITLESS ADA	DTED IS
-	DRILLING ME	PROCES CONTRACTOR	ROTARY HAMM	IER CABLE TOOL OTHER - SPE	CIFY:		INSTAL	LED	PIEKIS
	DEPTH (f	TO	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CONN	SING VECTION YPE ing diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLO' SIZI (inche
3	0	45	DI	211 PUC SH40	Threa	1	211	Sch 40	
	45	55	411	2" PUC Schyo(soren)	Threa	d	211	Seh 40	. 00
							nar on acc	42023 PM1:23	
			The action of the party of the contract of the	LIST ANNULAR SEAL MATERIAL AN	D GRAVEI	PACK SIZE-	WWW W23 1111	1 4 2023 412 (23	
	DEPTH (f	TO	BORE HOLE DIAM. (inches)	RANGE BY INTER  *(if using Centralizers for Artesian wells-	VAL		AMOUNT (cubic feet)	METHO PLACE	
Mark South Committee in				None Pulled a	nd Pl	ugged			
No.		AL USE						/	

LOCATION

17350	DEPTH	(feet hal)							ESTIMATED
	FROM	TO	THICKNESS (feet)	INCLUDE WATE	D TYPE OF MATERIA R-BEARING CAVITIE plemental sheets to full	S OR FRAC	TURE ZONES	WATER BEARING? (YES / NO)	YIELD FOR WATER- BEARING ZONES (gpm)
	0	20	20	White	Calicho	1	Are and	Y N	
	20	45	25	Brown F	Caliche ine soud dy Caliche		The state of	Y (N)	
	45	55	10	Red San	dy Caliche	7	Fa 5	Y N	1
			1		1			Y N	
			1 1 12				7,1-	Y N	
T			2.5 L					Y N	
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OF				The state of the s		-		Y N	
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								Y N	
				1 1/2				Y N	
							1 N 1	Y N	
	METHOD	USED TO E	STIMATE YIELD	OF WATER-BEARING	G STRATA:		Т	TOTAL ESTIMATED	•
	PUN	IP D	AIR LIFT	BAILER OT	HER - SPECIFY:		4	WELL YIELD (gpm):	Nov
			Department of the last		1100 N. 1000 N. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				N( )
NO	WELL TE				A COLLECTED DURI NOWING DISCHARGE				
5. TEST; RIG SUPERVISION	MISCELLA	ANEOUS IN	FORMATION:				09	E DIT APR 4 2023	PM1023
EST;	DDDDTTAL	ME(S) OF I	DILL BIC CURE	VICOD(C) THAT BEO	VIDED ONSITE SUPE	VICIONO	E WELL CONCE	TRUCTION OTHER T	HAN LICENSEE.
5. TI	PRINT NA	ME(S) OF I	ORILL RIG SUPER	VISOR(S) THAT PRO	VIDED ONSITE SUPE	CVISION O	WELL CONST	TRUCTION OTHER T	HAN LICENSEE:
TURE	CORRECT	RECORD	OF THE ABOVE D	ESCRIBED HOLE AN	EST OF HIS OR HER I ID THAT HE OR SHE V PLETION OF WELL D	VILL FILE			
6. SIGNATURE			Maly	7 2050	n Mole	4		3/24/2	3
		SIGNA	TURE OF DRILLE	/ PRINT SIGNEE	NAME	(		DATE	
FO	R OSE INTE	RNAL USE		- 29		2.00	WR-20 WELL	RECORD & LOG (V	ersion 09/22/2022)
			-POD3		POD NO.	100		743189	

Released to Imaging: 12/3/2024 1:50:51 PM

LOCATION NEON 23.31.24.412

FILE NO. C-4712-POD3

WELL TAG ID NO.

PAGE 2 OF 2

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

# STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr:

743189

File Nbr:

C 04712

Well File Nbr: C 04712 POD3

Apr. 04, 2023

VERTEX RESOURCES P.O. BOX 936 ROSWELL, NM 88202

Greetings:

The above numbered permit was issued in your name on 02/21/2023.

The Well Record was received in this office on 04/04/2023, stating that it had been completed on 03/09/2023, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 02/21/2024.

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

Sincerely,

Maret Thompson (575)622-6521



STATE ENGINEER OFFICE

	OSE BOD NE	MBER (WELL	MIN/PVP)			OSE FILE NU	19 <sup>14</sup> 1997 - 7 Ι Δ		
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8	WEIT OWN		01 00	eal Di		PHORES (GPT)		21/2 1/11	<b>2</b>
3	MARK		Cloy - 111	e Clay KANCHES		L <u>'</u>	432-4	190- 743	<u>Z</u>
וד	Λ	ER MAILING A	DDRESS	_		CITY	_	STATE	ZIP
WE	Box.	1076	254 L	Diamond Road		Jal	NO	1 8825	<u>ک</u>
GENERAL AND WELL LOCATION	WELL		DE	GREES MINUTES SECO	NDS	<u> </u>			
▎₹૽	LOCATIO	IN LATE	тире 3 <i>а</i>	15 12.71	N	* ACCURACY	REQUIRED: ONE TEN	TH OF A SECOND	}
₹	(FROM OF	×s -	(0.0	41 49.24	w	DATUM REC	QUIRED: WGS 84		
			, <u>, , , , , , , , , , , , , , , , , , </u>						
5	DESCRIPTION	ON RELATING	WELL LOCATION TO	STREET ADDRESS AND COMMON LANDA		,		BKR VAVITABER	
<b>-</b>	Hwu	128	mm 2	0 4 miles N	with .	- 1/4	weast		
<b></b>	LICENSE NI		NAME OF LICENSED			<del></del>	NAME OF WELL DR	ILLING COMPANY	
	1654		16/1	Sirman			Some 7	Willing & Go	act 11
	DRILLINGS		DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORR HOL	LE DEPTH (PT)		ST ENCOUNTERED (FT	
1	1 1 -	/	12/2/12	100	600		475-0	(· ·	´ \
	10/20	<i>1</i> /3	10/21/13	6000	100		1 1	VEL IN COMPLETED W	21.02
	COMPLETE	NALITY.	ARTESIAN	DRY HOLE SHALLOW (UNC	ONFINED)		·		SLAL (F1)
Z	COMP 125 125						380 6	<del></del>	
CASING INPORMATION	DRILLING F	LUID:	AIR	MUD ADDITIVES - SPE	CIFY:				
3	DRULING	ÆTHOD:	ROTARY	HAMMER CABLE TOOL	ОТНВ	R - SPECIFY:			
Į ĝ	<u> </u>			CASING MATERIAL AND/OR	<del>T</del>		<u> </u>		<del></del>
Z		(feet bgl)	BORE HOLE	GRADE		ASING	CASING	CASING WALL THICKNESS	SLOT
🖁	FROM	TO	DIAM (inches)	(include each casing string, and	1	NECTION TYPE	INSIDE DIAM.	(inches)	(inches)
S.Y.			\	note sections of screen)	ļ	<del></del>	(trones)	(Bidies)	1
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ا د ا		(fect bgl)	BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MA GRAVEL PACK SIZE-RANG			AMOUNT (cubic feet)	METHO PLACEI	
3	FROM	10	DDAM. (IIIIII)		EDI INIE	KVAL	(cubic sect)	FLACE	
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			TIMATE YIELD	OF WATER-BEARIN	ig strata: [	PUMP		TOTAL ESTE			• .
	AIR LIF	r 🗆 1	BAILER 🗆	OTHER - SPECIFY:			ŀ	MEIT AIEÏ	) (ggm):	)	
NO	WELL TES	T TEST	RESULTS - ATT I TIME, END TIM	ACH A COPY OF DA ME, AND A TABLE S	TA COLLECTED DU HOWING DISCHAR	RING WELL GE AND DRA	TESTING, INC AWDOWN OVE	LUDING DISC R THE TESTI	HARGE I	ÆTHOD, D.	
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PER											}
TEST; RIG SUPERVISIO	No	ne									į
ij	ODDETAL	TE (D) OP OP	III I DIO OLIDON	VISOR(3) THAT PRO	Must Original exa	EDIMOTOR	DE RUELL CONT	TTDI KATTANI A	THE CO		==
S. TI	PRINT NAM	WOUL	_	VISOR(S) THAT PRO	AIDED ONSTIE SU	rek vision (	).	TRUCTION	. HER IH	an licen	SEE:
<del></del>	THE INDE			ES THAT, TO THE E	DEST OF ING OR SET	NAME OF THE PARTY	OF ARD DOLLE	D date sove	MRIC II	A 700.00	=
3	CORRECT I	RECORD OF	THE ABOVE D	ESCRIBED HOLE AN	ND THAT HE OR SH	WILL FILE	THIS WELL RE	CORD WITH	THE STA	te engini	EER
SIGNATURE	AND THE P	ERMIT HOI	LUER WITHIN 20	DAYS AFTER COM	ipletion of Well	DRILLING:					ł
Ž.		1	//	11	<i>_</i> ``,		e.	, /			}
15	\		Thuay	JOHN	2 RMAN			1//3/	<u> </u>		_ ]
		SICENATI	JRE OF DRILLE	R / PRINT SIGNEE	NAME				DATE		_
		MAL TES					1177 44	I DECCES			
	OSE INTER	VAL USE	3555	<del></del>	POD NUMBER	J	TRN NUMBI	LRECORD & CR 52U		zion 06/08/2	2012)

1-2-2

245.328.05

PAGE 1 OF 2

WELL TAG ID NO.



### WELL RECORD & LOG

### OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

T	OSE POD NO.	(WELL NO.)		WELL TAG ID NO.		OSE FILE NO(S	O - C	1712	
L	CE	4712	- POD I			PHONE (OPTIO		7/12	
	WELL OWNE	rname(s)	Dataloun	Company		PHONE (OF THE	JAAL)		
H	WELL OWNE			1 Confour		CITY		STATE	ZIP
L	PO	Box		<u> </u>		Rosu	sell	NM 8	820
r	WELL		14	GREES MINUTES SECO			4		
	LOCATION	LAT	TTUDE	32 15 46	./ N	16	REQUIRED: ONE TENT	H OF A SECOND	
	(FROM GPS	S) LON	NGITUDE 1	03 42 58	3,4 W	* DATUM REC	QUIRED: WGS 84		
F	DESCRIPTIO	N RELATIN		STREET ADDRESS AND COMMON LANDM	IARKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WHI	ERE AVAILABLE	
L		minateseug ps. 213							950 X 2752
	LICENSE NO.		NAME OF LICENSED	DRILLER			NAME OF WELL DRI		
	1833		Jason	1 laley			Visian	Kesource	
	DRILLING ST	ARTED	1 -1	DEPTH OF COMPLETED WELL (FT)		LE DEPTH (FT)	DEPTH WATER FIRS	T ENCOUNTERED (FT	)
	Mar	2073	3 9 23	55	5	5	Dry		
	COMPLETED	WELL IS:	ARTESIAN *add	DRY HOLE SHALLOW (UNC	ONFINED)		WATER LEVEL PLETED WELL	DATE STATIC	MEASU
L	JOINI DETEL		Centralizer info bel	ow	, , , , ,	(FT)	DAY	Dr	1
	DRILLING FI	UID:	AIR	MUD ADDITIVES – SPE	CIFY:	54 117		25-	
	DRILLING M	ETHOD: [V	ROTARY HAMM	TER CABLE TOOL OTHER - SPE	CIFY:		CHECK INSTAL	HERE IF PITLESS ADA LED	PTER IS
	DEPTH	(feet bgl)	BORE HOLE	CASING MATERIAL AND/OR	CA	SING	CASING	CASING WALL	SL
	FROM	TO	DIAM	GRADE (include each casing string, and	CONN	NECTION	INSIDE DIAM.	THICKNESS	SIZ
			(inches)	note sections of screen)	(add coupl	YPE ling diameter)	(inches)	(inches)	(incl
r	0	45	6	7" ove sch40	Th	read	2"	Sch 40	_
r	45	55	(0	2" ove schal	Tr	ead	Z"	5ch 40	.0
r					1	3.00 5 0			
r			1 1			- 11		4.0	
r		7.		2					
r		-		A   2					
ŀ					1,	- Mary	INCE OFF OPP	4 7003 pm ( 120	
1						17 July 1 19	Water (A) Tell II	- 4440 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
1						100			
F	DEPTH	(foot 1 - 1)	The latest and the la	LIST ANNULAR SEAL MATERIAL AN	ND GRAVEI	L PACK SIZE-	AMOUNT	Management of the Control of the Con	D OF
L		(feet bgl)	BORE HOLE DIAM. (inches)	RANGE BY INTE			AMOUNT (cubic feet)	METHO PLACE	
F	FROM	ТО	(menes)	*(if using Centralizers for Artesian wells	- indicate the	spacing below)	(000.0 1001)		
F						Y			
L				Dille	1	1	01.000		
F			1	None Pulle	CI Y	the	Plugge	CI	
-				1,112,111		Less 1	00	-	
1						-			
L									
1									

LOCATION

on 23.32.31.141

(503)	DEPTH	(feet bgl)										ESTIMATED
	FROM	то	THICKNESS (feet)	INCLUDE WATE	D TYPE OF MACER-BEARING CA	VITIES O	R FRAC	TURE ZONE	В	WATER EARING YES / NO	3?	YIELD FOR WATER- BEARING ZONES (gpm)
	0	20	20	White	Caha	he		1		Υ (	N	
	20	45	25	Brows	Fine So	and		200		Υ (	N	
	45	55	10	O 1	1 04	che				Y (	N	
										Y	N	
						- 4				Y	N	
T										Y	N	
4. HYDROGEOLOGIC LOG OF WELL				2-4						Y	N	
OF							6 ,		- 1	Y	N	
90							31			Y	N	
ICI										Y	N	
200				0.				7		Y	N	
EOI				W.		-	1	10		Y	N	
ROC						E				Y	N	
IXD				7.						Y	N	
4.1			6.5	7.			7.	-		Y	N	
				111						Y	N	
			1	, i //		- 1	4,			Y	N	
				7						Y	N	
				2		73.7				Y	N	
							5			Y	N	
				7			14.			Y	N	
	METHOD	USED TO E	STIMATE YIELD	OF WATER-BEARING	G STRATA:				TOTAL E	STIMAT	ED	
	PUM				THER – SPECIFY	: , , ,			WELL Y			Dry
ON	WELL TE	ST TEST	RESULTS - ATT	ACH A COPY OF DAT ME, AND A TABLE SI	A COLLECTED HOWING DISCH	DURING V	WELL T	ESTING, INC	LUDING I	DISCHAF STING P	RGE M	METHOD, D.
5. TEST; RIG SUPERVISION	MISCELLA	NEOUS IN	FORMATION:				1		AL INSULATION CON			
PER												
SSU								Q	SE DII A	PR 4 2	023 P	M1:23
; RIC												
EST	PRINT NA	ME(S) OF D	RILL RIG SUPER	VISOR(S) THAT PRO	VIDED ONSITE	SUPERVIS	SION OF	WELL CON	STRUCTIO	N OTHE	ER TH	AN LICENSEE:
5.1												
1964P)		000 Fe 320			NO TABLES AND SECURITION							
63	THE UNDI	RSIGNED	HEREBY CERTIF	TIES THAT, TO THE B DESCRIBED HOLE AN	EST OF HIS OR	HER KNO	WLEDO	GE AND BEL	EF, THE F	OREGO	ING IS	S A TRUE AND
LUR				0 DAYS AFTER COM				IIIS WELL F	ECORD W	IIII III	ESIA	TE ENGINEER
NA			$10 \cdot 1$		$\wedge$	,				1		
6. SIGNATURE		$\chi$	11/11/11/11	) 255	on IV	eley			3/20	1/2:	3	
.9		SIGNAT	TURE OF DRIVLE	R / PRINT SIGNEE		1	- 1	_	-1	DA	TE	
		V	-	1107 N. S.				ON THE PROPERTY OF THE		yo ulaa agaa ga		
	E NO.		2 707		POD NO.		-	WR-20 WEI				sion 09/22/2022)
	CATION \	4.11.	2-POD		FOD NO.	1		1.00.4.1	743	189		PAGE 2 OF 2
LUC	CATION N	eon	25.52	.31.141			WELL	TAG ID NO.	_			PAGE 2 OF 2

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

#### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr:

743189

File Nbr:

C 04712 Well File Nbr: C 04712 POD1

Apr. 04, 2023

VERTEX RESOURCES P.O. BOX 936 ROSWELL, NM

Greetings:

The above numbered permit was issued in your name on 02/21/2023.

The Well Record was received in this office on 04/04/2023, stating that it had been completed on 03/09/2023, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 02/21/2024.

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

Sincerely,

Maret Thompson (575) 622 - 6521



	OSE POD NO. (W	ELL NO.	)		WELL TAG ID NO	).		OSE FILE NO	O(S).				
ON	POD 1 (TW-1	)			N/A			C-4704					
OCATI	WELL OWNER N Devon Energy							PHONE (OP: 575-748-1					
WELL L	WELL OWNER M 6488 7 Rivers		ADDRESS					CITY Artesia			STATE NM	88210	ZIP
GENERAL AND WELL LOCATION	WELL LOCATION (FROM GPS)  DESCRIPTION F	LON	DE TTUDE GWELL LOCATION TO	GREES 32 103 STREET ADDI	MINUTES 18 43 RESS AND COMMO	36	.26 <sub>N</sub>	* DATUM R	EQUIRED: V				
1		ec.13 T	23S R31E NMPM										
	LICENSE NO. 1249		NAME OF LICENSED		Jackie D. Atkin	s			NAME (	OF WELL DRI Atkins Eng		MPANY Associates, I	nc.
	DRILLING STAR 4/11/23	TED	DRILLING ENDED 4/11/23		ompleted well ( orary Well Mate			LE DEPTH (FT) ±55	DEPTH	WATER FIRS	N/A	NTERED (FT)	
Z	COMPLETED WI	ELL IS:	ARTESIAN	✓ DRY HO	LE SHALL	OW (UNC	ONFINED)		C WATER L MPLETED W		/A D	ATE STATIC 4/18	
VIIO	DRILLING FLUII	D:	AIR	MUD	ADDITI	VES – SPE	CIFY:						
)RM	DRILLING METH	IOD:	ROTARY HAMN	MER CAB	BLE TOOL 🔽 OT	HER – SPE	CIFY: H	Hollow Sten	Auger	CHECK INSTAL	HERE IF P LED	TITLESS ADA	PTER IS
CASING INFORMATION	DEPTH (fee	t bgl)	BORE HOLE DIAM (inches)	(include	MATERIAL AN GRADE each casing string sections of screen	g, and	CON	ASING NECTION TYPE ling diameter)	INSID	SING E DIAM. aches)	THIC	NG WALL CKNESS nches)	SLOT SIZE (inches)
NG & C.	0	55	±6.25		Soil Boring								
DRILLING &													
2. 1									195E	OII APR	28 20	23 pm[1:5(	
	DEPTH (fee	t bgl)	BORE HOLE		IST ANNULAR S					MOUNT	T	МЕТНО	
ERIAI	FROM	ТО	DIAM. (inches)	GRA	AVEL PACK SIZ	E-RANG N/A	E BY INTE	ERVAL	(	cubic feet)	+	PLACEN	MENT
3. ANNULAR MATERIAL													
	OSE INTERNA				POD N					RECORD A		Version 01/2	8/2022)

FILE NO. C. 04704 POD NO. | TRN NO. 742173

LOCATION 235.3[E.13.322 WELL TAG ID NO. PAGE 1 OF 2

PAGE 2 OF 2

WELL TAG ID NO.

	DEPTH (1	reet bgl)	THICKNESS (feet)	INCLUDE WATI	ND TYPE OF MAT ER-BEARING CA pplemental sheets	VITIES OR FRAC	CTURE ZONE	es	WATER BEARING (YES / No	G?	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)		
	0	20	20	Sand, fine-grained, po	oorly graded, semi-	consolidated, with	caliche Tan/	white	Y	N	(ep)		
	20	44	24		ned, poorly graded,					/ N			
	44	55	9	Sand, fine-graine	d, poorly graded, so	emi-consolidated,	Reddish Brow	n	Υ 🗸	/ N			
									Y	N			
									Y	N			
1									Y	N			
4. HYDROGEOLOGIC LOG OF WELL									Y	N			
OF									Y	N			
90									Y	N			
101									Y	N			
007									Y	N			
3E0									Y	N			
RO									Y	N			
HA									Y	N			
4									Y	N			
									Y	N			
									Y	N			
									Y	N			
									Y	N			
									Y	N			
									Y	N			
	METHOD U	SED TO ES	STIMATE YIELD	OF WATER-BEARIN	G STRATA:				L ESTIMA				
	PUMI	) []A	IR LIFT	BAILER O	THER – SPECIFY:			WELI	L YIELD (g	gpm):	0.00		
NOISI	WELL TES			ACH A COPY OF DAT ME, AND A TABLE S									
	MISCELLA	NEOUS IN	FORMATION: To	emporary well materi	al removed and s	oil boring backf	illed using d	rill cutti	ngs from to	otal de	enth to ten feet		
TEST; RIG SUPERV			00	now ground surface(t	ogs), then hydrate	ed bentonite chip	s ten feet bg	s to sur	face.	our u	pin to ten reet		
SO			35 Te	omb Raider 12 CTB 1	1		0		FAPR 28	909	2691150		
I;R								tuditasi lahili i	110 10 20	in Vine	a contact and the		
TES	PRINT NAM	IE(S) OF D	RILL RIG SUPER	RVISOR(S) THAT PRO	VIDED ONSITE S	SUPERVISION O	F WELL CON	ISTRUC	TION OTH	ER TH	IAN LICENSEE:		
v;	Shane Eldric	dge, Came	ron Pruitt										
3				FIES THAT, TO THE E DESCRIBED HOLE AN									
SIGNATURE	AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:												
IGN/	Jack K	tkins		Ja	ckie D. Atkins				4/27/2	23			
6.8		SIGNAT	URE OF DRILLE	ER / PRINT SIGNEE	NAME		_			ATE			
	R OSE INTERI		0.1		POD NO					G (Ve	rsion 01/28/2022)		
FIL	E NO. ( -	0470	54		POD NO.	1	TRN NO.	14	2173				

LOCATION 235. 31E. 13. 322



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**National Water Information System: Web Interface** 

**USGS** Water Resources

Groundwater **United States** GO

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• Explore the NEW <u>USGS National Water Dashboard</u> interactive map to access real-time water data from over 13,500 stations nationwide.

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site\_no list =

• 321952103400801

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

#### USGS 321952103400801 23S.32E.03.311114

Lea County, New Mexico

Latitude 32°19'59.2", Longitude 103°40'12.6" NAD83

Land-surface elevation 3,648.00 feet above NGVD29

The depth of the well is 630 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Santa Rosa Sandstone (231SNRS) local aquifer.

#### **Output formats**

Table of data					
Tab-separated data					
Graph of data					
Reselect period					

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measu
1976-12-09		D	62610		3227.43	NGVD29	1	Z		
1976-12-09		D	62611		3229.14	NAVD88	1	Z		
1976-12-09		D	72019	420.57			1	Z		
1981-03-26		D	62610		3209.66	NGVD29	Р	Z		
1981-03-26		D	62611		3211.37	NAVD88	Р	Z		
1981-03-26		D	72019	438.34			Р	Z		
1981-05-21		D	62610		3210.33	NGVD29	1	Z		
1981-05-21		D	62611		3212.04	NAVD88	1	Z		
1981-05-21		D	72019	437.67			1	Z		
1986-04-17		D	62610		3209.32	NGVD29	1	Z		
1986-04-17		D	62611		3211.03	NAVD88	1	Z		
1986-04-17		D	72019	438.68			1	Z		
1991-05-30		D	62610		3210.07	NGVD29	1	Z		
1991-05-30		D	62611		3211.78	NAVD88	1	Z		
1991-05-30		D	72019	437.93			1	Z		
1992-11-05		D	62610		3209.88	NGVD29	1	S		
1992-11-05		D	62611		3211.59	NAVD88	1	S		

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1992-11-05		D	72019	438.12			1	S		
1996-03-15		D	62610		3210.18	NGVD29	1	S		
1996-03-15		D	62611		3211.89	NAVD88	1	S		
1996-03-15		D	72019	437.82			1	S		
2013-01-17	01:00 UTC	m	62610		3161.40	NGVD29	Р	S	USGS	;
2013-01-17	01:00 UTC	m	62611		3163.11	NAVD88	Р	S	USGS	
2013-01-17	01:00 UTC	m	72019	486.60			Р	S	USGS	i

Exp	

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	Р	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	Α	Approved for publication Processing and review completed.

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Help
Data Tips
Explanation of terms
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U.S. Department of the Interior | U.S. Geological Survey

Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2024-09-05 14:59:20 EDT

0.34 0.25 nadww01





0SE 011 FEB 26 2024 PM2:04

	C4790-POD				C4790			C047		20111	7				
	WELL OWNER Devon Energ							PHO	NE (OPTIO	UNAL)					
-	WELL OWNER 205 E Bende						,	Hobb				STAT NM		8240	ZIP
	WELL LOCATION	LAT	D	EGREES 32	MINUTES 16	SECO	ONDS 708 N	* AC	CURACY	REQUIRED:	ONE TENT	гн оғ	A SECO	ND	
-	(FROM GPS)	LON	NGITUDE	-103	43		.556 W			QUIRED: WG					
	DESCRIPTION	RELATIN	G WELL LOCATION TO	O STREET ADD	RESS AND COMMO	N LAND	MARKS – PL	SS (SEC	FION, TO	WNSHJIP, RA	NGE) WH	ERE A	VAILAE	BLE	
	LICENSE NO. 1833		NAME OF LICENSEI	D DRILLER	Josep Moley					NAME OF			G COMPA		
	DRILLING STA	RTED	DRILLING ENDED	DEPTH OF CO	Jason Maley OMPLETED WELL (	FT)	BORE HO		TH (FT)	DEPTH W		ST ENC	COUNTE		
	2-6-24	4	2-6-24		55'			55'	STATIC	WATER LEV	EL		DATE	TE STATIC MEASUREI	
	COMPLETED	WELL IS:	Centralizer info b	DRY HO	LE SHALL	OW (UNC	ONFINED)			PLETED WEI		)'	DATE	2-10	
	DRILLING FLU DRILLING ME		ROTARY HAM	MUD  MER CAE		VES – SPI HER – SPI			CHECK HERE IF PITE					ESS ADAI	PTER IS
	DEPTH (f	eet bgl)	BORE HOLE	CASING	MATERIAL AN GRADE	D/OR	С	ASING		CASI			SING	WALL	SLOT
	FROM	ТО	DIAM (inches)		each casing string			NECTION TYPE poling diam		INSIDE (inch		Т	HICKN (inche		SIZE (inches)
ľ	0	45'	6"		2" PVC SCH40			Thread		2"			SCH	40	N/A
-	45'	55'	6"		2" PVC SCH40			Thread		2"			SCH	40	.02
-															
				-											
		0 48 .													
	DEPTH (f	eet bgl)	BORE HOLE		ULAR SEAL MATI RANGE I			L PACK	SIZE-		IOUNT			METHO	
	FROM	ТО	DIAM. (inches)	*(if using Co	None Pull	-		e spacin	g below)	(cut	oic feet)		,	PLACEM	IENI
-															
F															
ŀ			2												
L	OSE INTERN	AL USE							WR-2	0 WELL R	ECORD &	& LO	G (Vers	sion 09/2:	2/2022)
Ε		170			POD N	O. (	,		TRN		5393				
C	ATION 73	5.3	1E. 25. 41	13				WELL TAG ID							1 OF 2

			ACCEPTANCE NAMED IN			
	DEPTH (	feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)	WATER BEARING? (YES / NO)	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
	0	40'	40'	Red dirt with small rocks	Y /N	
	40'	55'	15'	Tan fine sand with small rocks	Y ✓N	
					Y N	
					Y N	
					Y N	
ı					Y N	
WEL					Y N	
4. HYDROGEOLOGIC LOG OF WELL					Y N	
90					Y N	
ICI					Y N	
507					Y N	
EOI				8	Y N	
ROC				A <sub>2</sub>	Y N	
HYD					Y N	
4	1		-		Y N	
					Y N	
					Y N	
					Y N	
					Y N	
				1 (2)	Y N	
		4 0			Y N	
	METHOD U	SED TO E	STIMATE YIELD	OF WATER-BEARING STRATA:	TOTAL ESTIMATED	
	PUM	P DA	AIR LIFT	BAILER OTHER - SPECIFY: Dry	WELL YIELD (gpm):	0
SION	WELL TES	T TEST	RESULTS - ATT	ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INC ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVE	LUDING DISCHARGE R THE TESTING PERI	METHOD, OD.
VISI	MISCELLA	NEOUS IN	FORMATION:			
5. TEST; RIG SUPERVI						
CSU				QS	SE DII FEB 26 202	4 PM2:04
; RI						
rest	PRINT NAM	ME(S) OF D	RILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONS	STRUCTION OTHER T	HAN LICENSEE:
w.						
				*		
SIGNATURE	CORRECT	RECORD (	OF THE ABOVE I	TIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELI DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL R ODAYS AFTER COMPLETION OF WELL DRILLING:		
6. SIGN		SIGNAT	TURE OF DRILLE	Jason Maley  RR / PRINT SIGNEE NAME	7/21	24
		SIGNA	OR DRILLE	A / I MINI SIONEE NAME	U ( DATE	
FOI	R OSE INTER				L RECORD & LOG (Ve	ersion 09/22/2022)
	ENO.	047			753931	
LO	CATION 2	26 2	JF. 25	443 WELL TAGIDNO		PAGE 2 OF 2



# WELL RECORD & LOG Took 23 Fed

### OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

- 1		(WELL NO.)	)		WELL TAG ID NO			OSE I	TILE NO(S	S).				
0	<del>2 4774</del> POI				1	A				201413				
2 1	WELL OWNE Devon Ener		rces					PHON	NE (OPTIO	ONAL)				
VELL	WELL OWNE							CITY				STAT NM	88210	ZIP
GENERAL AND WELL LUCATION	WELL LOCATION	2311	DI	EGREES 32	MINUTES 17	SECO1 42.8	604 <sub>N</sub>			REQUIRED: (		TH OF A	SECOND	58 9 75 9
I. GENER	DESCRIPTIO	LON	G WELL LOCATION TO	103 O STREET ADD	RESS AND COMMO	30.8 N LANDM			Maria Maria	AND DESCRIPTION OF THE PARTY OF		IERE AV	/AILABLE	
	LICENSE NO.	3	NAME OF LICENSEE	D DRILLER	Jason Maley					NAME OF V			COMPANY	
	DRILLING ST 12-14		DRILLING ENDED 12-14-23	DEPTH OF CO	OMPLETED WELL (F 105'	T)	BORE HOL	LE DEP	TH (FT)	DEPTH WA	ATER FIR	ST ENC	OUNTERED (F	Г)
	COMPLETED	WELL IS:	ARTESIAN *add Centralizer info be	DRY HO	LE SHALLO	W (UNC	ONFINED)			WATER LEVI PLETED WEL		/A	DATE STATIO	C MEASUR 17-23
KMAIK	DRILLING FL		✓ AIR  ROTARY	MER CAB		TIVES - SPECIFY: THER - SPECIFY:					CHECK	F PITLESS AD	APTER IS	
	DEPTH (feet bgl) BORE HOI FROM TO DIAM (inches)			CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)		CONN	CASING CONNECTION TYPE (add coupling diameter)		CASING INSIDE DIAM. (inches)		CASING WALL THICKNESS (inches)		SLC SIZ (inch	
<u> </u>	0	95'	6"		2" PVC SCH40	,	Thread		2'			SCH40		
5	95'	105'	6"		2" PVC SCH40		T	hread		2'			SCH40	.02
2. DRILLING & CASING INFORMATION	,									OSE	OH JE	N 1.2	2024 PM1	:52
-														
	DEPTH (	feet bgl)	BORE HOLE DIAM. (inches)		ULAR SEAL MATE RANGE B	Y INTER	VAL				OUNT		METH(	
3. ANNULAR MATERIAL	FROM	10		-(if using Ce	None Pulle			spacin	g below)					
AMMANA														
ò														
	OSE INTERI	NAL USE	1 7007		POD M	`	1						(Version 09/	22/2022)
ILE	NO. C-	477	4- POI 23.31.	27 1	POD NO	<i>J</i> .	1		TRN I		75			E 1 OF 2

				THE RESERVE OF THE PARTY OF THE	THE CONTRACTOR OF THE PARTY OF	BETTE CONTRACTOR	POPERATE AND ADMINISTRATION OF	CONTRACTOR OF STREET	GENERAL PROPERTY.	and Mark Park to 1999 and 1999.
10: 1	DEPTH (	feet bgl)	THICKNESS		D TYPE OF MATERIAL E				ATER	ESTIMATED YIELD FOR
	FROM	то	(feet)		R-BEARING CAVITIES O plemental sheets to fully do				RING? S / NO)	WATER- BEARING ZONES (gpm)
	0	5'	5'		Brown sand with coarse re	ock		Y	✓ N	
	5'	30'	25'		Tan fine sand with coarse r	rock		Y	<b>√</b> N	
	30'	105'	75'		Brown sand mixed with c	lay		Y	✓ N	
								Y	N	
								Y	N	
1		1					ı	Y	N	
4. HYDROGEOLOGIC LOG OF WELL								Y	N	
OF								Y	N	
507								Y	N	
1016								Y	N	
707								Y	N	
GEO								Y	N	
RO								Y	N	
HYL								Y	N	
4								Y	N	
								Y	N	
								Y	N	
								Y	N	
								Y	N	
								Y	N	
								Y	N	
	METHOD U	SED TO ES	STIMATE YIELD	OF WATER-BEARING	G STRATA:			OTAL EST		Dne
	PUMI	P 🔲 A	IR LIFT	BAILER OT	HER - SPECIFY: Dry hole	Control Salah		WELL YIEL	D (gpm):	Dry
STON	WELL TES				A COLLECTED DURING IOWING DISCHARGE AN					
VIS	MISCELLA	NEOUS INI	FORMATION:			ns ngunner status	corporation or exact traces	and the second second second	SCHOOL STAND	SAMERIENES PERSONAL ENGELORE
5. TEST; RIG SUPERVI							(24)			
GSL							US	AF III JA	N 12 20	24 PM1:52
r; RI										
FEST	PRINT NAM	ME(S) OF D	RILL RIG SUPER	RVISOR(S) THAT PRO	VIDED ONSITE SUPERVI	SION OF	WELL CONST	RUCTION	OTHER TI	HAN LICENSEE:
,										
	THE INDE	DOLONED !	JEDEDY CEDTU	TIES THAT TO THE D	EST OF HIS OR HER VAC	WI EDG	E AND DELTE	E THE FOR	ECORIC	IC A TRUE AND
2E	CORRECT	RECORD O	F THE ABOVE I	DESCRIBED HOLE AN	EST OF HIS OR HER KNO D THAT HE OR SHE WIL	L FILE T				
UL)	AND THE P	ERMIT HO	LDER WITHIN 3	O DAYS AFTER COM	PLETION OF WELL DRIL	LING:				
SIGNATURE		00	Λ		1 00			. 1	1	
6. SI		$\mathcal{M}_{\mathcal{M}}$	مللم	Joseph	11/aley	_		// <i>k</i>	3/24	
	The Stagner	SIGNAT	URE OF DRILLE	ER / PRINT SIGNEE	NAME /	nyembe teom	o specificalities en autoria	HIGH SAMPLES CONTRACTOR	DATE	
FOI	R OSE INTER	NAL USE					WR-20 WELL	RECORD &	LOG (Ve	rsion 09/22/2022)
	E NO.				POD NO.		TRN NO.			
LO	CATION					WELL	TAG ID NO.			PAGE 2 OF 2

Mike A. Hamman, P.E. State Engineer



swell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: File Nbr: 751178 C 04774

Well File Nbr: C 04774 POD1

Jan. 12, 2024

DALE WOODALL DEVON ENGERGY RESOURCES 205 E BENDER ROAD #150 HOBBS, NM 88240

Greetings:

The above numbered permit was issued in your name on 09/19/2023.

The Well Record was received in this office on 01/12/2024, stating that it had been completed on 12/14/2023, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 09/18/2024.

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

Maret Thompson (575) 622 - 6521



# WELL RECORD & LOG mesa Verde 6 Fed

### OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

WELL OWNER M Devon Energy WELL OWNER M 205 E. Bender  WELL LOCATION (FROM GPS)  DESCRIPTION I	NAME(S) Resour MAILING Road #	ADDRESS # 150 DETITUDE RGITUDE	EGREES 32 -103 D STREET ADDRE	MINUTES 14 42 ESS AND COMMO	SECON 26.89	DS	PHONE (OI CITY Hobbs	TIONAL)	STA'		ZIP
WELL OWNER M 205 E. Bender  WELL LOCATION (FROM GPS)  DESCRIPTION F	Road #	ADDRESS # 150  DI TITUDE RGITUDE	32 -103	14 42	26.89	DS DAA					ZIP
LICENSE NO.	LON	TITUDE	32 -103	14 42	26.89	144				Accommodate productions	-
				32 14 26.		864 W	ACCURACY REQUIRED: ONE     DATUM REQUIRED: WGS 84  SS (SECTION, TOWNSHJIP, RANGE)				
		NAME OF LICENSED		Jason Maley		PORE NO.	E DEREIL (E	NAME OF WELL	Vision	Resources	
DRILLING STARTED 12-14-23		DRILLING ENDED 12-14-23	DEPTH OF COMPLETED WELL (FT) BORE HOLE  105' 10		105'	DEPTH WATER	DEPTH WATER FIRST ENCOUNTERS DTy				
COMPLETED WELL IS: ARTESIAN *add Centralizer info bel			DRY HOLE SHALLOW (UNCONFINED)				IC WATER LEVEL OMPLETED WELL	Dry	Dry DATE STATIC MEASU		
DRILLING FLUI		AIR ROTARY HAM	☐ MUD	MUD ADDITIVES – SPECIFY:  ER CABLE TOOL OTHER – SPECIFY:			CH INS	CHECK HERE IF PITLESS ADAPTER IS INSTALLED			
DEPTH (fee	et bgl)	BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)		g, and	CASING CONNECTION TYPE (add coupling diameter)		(inches)	INSIDE DIAM. T		SL SI (inc
0	95'	6"		PVC SCH40		T	hread	2"		SCH40	
95'	105'	6"	2"	PVC SCH40		T	hread	2"		SCH40	).
		:									
								USE ON	JAN 1	2 2024 PM1 1	53
		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK S RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing I				AMOUN (cubic fe	METHOD OF PLACEMENT			
FROM	10		-(II using Cen	None Pull			spacing ber	<u>w</u> )			
R OSE INTERNA	AL USE	14.32	/	POD N	0. 1			R-20 WELL RECO	RD & LO	G (Version 09/2	2/2022

	CASE MODELLA PER LICE.	no dual entre la	THE PROPERTY OF STREET		CONTRACTOR STREET	CLASS SECTION	Mar, have been that the party of		RESIDENCE SERVICE	THE MENT	
	DEPTH (	feet bgl) TO	THICKNESS (feet)	INCLUDE WATE	D TYPE OF MAT R-BEARING CA' plemental sheets	VITIES OF	FRACTURE ZONE	s	WAT BEAR (YES	ING?	ESTIMATED YIELD FOR WATER- BEARING ZONES (gpm)
		101	10'		Red coars	a cand			Y	✓ N	ZONES (gpiii)
	0	10'	-		Tan Fine sand w		ock		Y	✓ N	
	10'	30'	20'		Red sand with v				Y	✓ N	
	30'	40'	10'		Tan sand with v				Y	✓ N	
	40'	60'	20'						- Y	✓ N	
	60'	80'	20'		Red sand with						
1	80'	105'	25'		Tan fine sand	with calich	e		Y	✓ N	1
4. HYDROGEOLOGIC LOG OF WELL									Y	N	
3 OF									Y	N	
100									Y	N	
GIC									Y	N	
CO									Y	N	
GEO									Y	N	
RO									Y	N	
HYD									Y	N	
4.									Y	N	
									Y	N	
									Y	N	
									Y	N	
									Y	N	
							7		Y	N	
									Y	N	
	METHOD I	JSED TO E	STIMATE YIELD	OF WATER-BEARIN	G STRATA:				AL ESTIN		•
	PUM	IP D	AIR LIFT	BAILER	THER – SPECIFY	Dry	MA TOTAL STATE OF THE STATE OF	WEI	LL YIELD	) (gpm):	U
Z	WELL TES	ST TEST	RESULTS - ATT	ACH A COPY OF DAT ME, AND A TABLE SI	A COLLECTED HOWING DISCH	DURING Y	WELL TESTING, IN D DRAWDOWN OV	CLUDI ER TH	NG DISC E TESTIN	HARGE I	METHOD, DD.
ISIO	MISCELLA	NEOUS IN	FORMATION:	rangos para di mora di paparitante, stima	on purpose of the property of	A LOCATION AND A SECTION ASSESSMENT	THE RESERVE LAND ASSESSMENT OF B	HORATEST .	JEUTHALIA	Canal Molecules	ogsanjanjano pressiona Copolija
TEST; RIG SUPERVISION	NISCEEL						(	)SE (	NAL IIK	12 200	24 PM1:53
TEST	PRINT NA	ME(S) OF I	DRILL RIG SUPE	RVISOR(S) THAT PRO	VIDED ONSITE	SUPERVI	SION OF WELL COM	NSTRU	CTION O	THER T	HAN LICENSEE
'n											
SIGNATURE	CORRECT	RECORD	OF THE ABOVE	FIES THAT, TO THE FIDESCRIBED HOLE AN 30 DAYS AFTER COM	ND THAT HE OR	SHE WIL	L FILE THIS WELL	LIEF, T	HE FORE	EGOING THE ST	IS A TRUE AND ATE ENGINEER
6. SIG	Charles	SIGNA	TURE OF DRILL	PRINT SIGNEE	NAME	lly			1/	DATE	4
FO	R OSE INTE	RNAL USE					WR-20 WI	ELL RE	CORD &	LOG (Ve	ersion 09/22/2022
	LE NO. C-	4775	404-5	1	POD NO.		TRN NO.	7	5117	9	
LO	CATION	Eral	24.32	.06.444			WELL TAG ID NO	_			PAGE 2 OF 2

Mike A. Hamman, P.E. State Engineer



well Office 1900 WEST SECOND STREET ROSWELL, NM 88201

#### STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: File Nbr: 751179 C 04775

Well File Nbr: C 04775 POD1

Jan. 12, 2024

DALE WOODALL DEVON ENERGY RESOURCES 205 E BENDER ROAD #150 HOBBS, NM 88240

Greetings:

The above numbered permit was issued in your name on 09/19/2023.

The Well Record was received in this office on 01/12/2024, stating that it had been completed on 12/14/2023, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 09/18/2024.

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

Sincerely,

Maret Thompson (575) 622 - 6521



### WELL RECORD & LOG

### OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

GENERAL AND WELL LOCATION	WELL OWNER I	Resou			PHONE (OPTIONAL)  CITY STATE ZIP								
	205 E Bender				Hobbs		NM 88240	ZIP					
	WELL LOCATION LATITUDE (FROM GPS)		TTUDE	GREES MINUTES S 32 15'	18.5" N 03.4" W	10.00	REQUIRED: ONE TENTH OF A SECOND QUIRED: WGS 84						
1. GENE	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHJIP, RANGE) WHERE AVAILABLE												
	LICENSE NO. 1833		NAME OF LICENSED	DRILLER Jason Maley			NAME OF WELL DRII	LLING COMPANY sion Resources					
	DRILLING STARTED 6-1-23		DRILLING ENDED 6-1-23	DEPTH OF COMPLETED WELL (FT) 105'		LE DEPTH (FT) 105'	DEPTH WATER FIRS	)					
N	COMPLETED W	ELL IS:	ARTESIAN *add Centralizer info be	DRY HOLE SHALLOW (U		STATIC WATER LEVEL IN COMPLETED WELL Dry (FT)							
DRILLING & CASING INFORMATION	DRILLING FLUID: AIR MUD ADDITIVES – SPECIFY:												
	DRILLING MET	HOD: 🗸	ROTARY HAM!		CHECK INSTALI	HERE IF PITLESS ADA LED	PTER IS						
	DEPTH (feet bgl)		BORE HOLE CASING MATERIAL AND		OR CASING		CASING	CASING WALL	SLOT				
	FROM	ТО	DIAM (inches)	(include each casing string, and		NECTION TYPE bling diameter)	INSIDE DIAM. (inches)	THICKNESS (inches)	SIZE (inches				
& C	0	100	6	2" PVC SCH 40		Γhread	2"	SCH 40	-				
JNG 4	100	105	6	2" PVC SCH 40	7	Γhread	2"	SCH 40	.02				
2. DRILI						73							
							OSE DOT JUN	1.3 <b>2</b> 023 pm2:05	3				
	DEPTH (feet bgl) BORE HOLE			LIST ANNULAR SEAL MATERIA RANGE BY IN	EL PACK SIZE-	AMOUNT	METHOD OF						
ANNULAR MATERIAL	FROM TO DIAM. (inches)		DIAM. (inches)	*(if using Centralizers for Artesian v None pulled an	e spacing below)	(cubic feet)	PLACE	PLACEMENT					
AR MA			1000										
NNOT			1										
3. A			4.			1							
FOR	OSE INTERN						0 WELL RECORD	& LOG (Version 09/2	22/2022)				
	R OSE INTERNENO. C - L		316.36	POD NO.	1	WR-2 TRN	NO. 1472	& LOG (Version 09/2 003 PAGE					

	DEPTH (f	feet bgl)		2016 200 200 mg ma uma pula sum palas			COLDITEDE				ESTIMATED	
	FROM	то	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES (attach supplemental sheets to fully describe all units)					BEAL	TER RING? / NO)	YIELD FOR WATER- BEARING ZONES (gpm)	
	0	10	10		Red sand/W	hite Caliche			Y	✓ N	U.	
	10	20	10	71	White 0	Caliche			Y	✓ N		
	20	80	60		Light Tan	fine sand			Y	✓ N		
	80	105	25		Brown f	ine sand			Y	✓ N		
				1.					Y	N		
T			1						Y	N		
4. HYDROGEOLOGIC LOG OF WELL								0.1	Y	N		
OF							4		Y	N		
90		1							Y	N		
ICL									Y	N		
507			· ·						Y	N		
EOI									Y	N	25	
ROG									Y	N		
IVD								17.1	Y	N	*	
4. F									Y	N		
									Y	N		
								7 1	Y	N		
									Y	N		
								1,1,5	Y	N		
				4					Y	N		
								1	Y	N		
								OTAL ESTI		0		
ISTON	WELL TES	T TEST	RESULTS - ATT	ACH A COPY OF DAT ME, AND A TABLE SH	TA COLLECTED HOWING DISCH	DURING Y HARGE AN	WELL TESTI D DRAWDO'	NG, INCLI WN OVER	UDING DISC THE TESTI	CHARGE I	METHOD, DD.	
TEST; RIG SUPERVISI	MISCELLANEOUS INFORMATION:  OSE DIT JUN 13 2023 PM 2:08											
TEST	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE:											
'n	Jason Maley											
S. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINES AND THE PERMIT HOLDER WITHIN 30 DAYS AFTER COMPLETION OF WELL DRILLING:  Jason Maley  6-7-23											
SIGNATURE OF DRILLER / PRINT SIGNEE NAME DA										DATE		
FO	R OSE INTER	NAL USE	V			V ,	WR	-20 WELL	RECORD &	LOG (Ve	ersion 09/22/2022)	
	ENO.	4746	)	- >	POD NO.	l		INO. 7L	17 20			
LO	CATION	135-	316.36	343		4	WELL TAG	ID NO.	MA		PAGE 2 OF 2	

PAGE 1 OF 2

WELL TAG ID NO.



## WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

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	OSE POD NO	. (WELL NO	.)	WELL TAG ID NO.	OSI	E FILE NO(	S).	and the amplitude of the amplitude of the			
	C-047	112 P	P 400				C-4	712			
	WELL OWN	ER NAME(S)	0 1	0	PH	ONE (OPTI	ONAL)				
	Har	Vard	Retroleur	2 Company							
	WELL OWN		936		CIT		swell NM 88202				
	WELL			GREES MINUTES SECO	NDS		1		NUMBER OF SAME AND ADDRESS OF THE PARTY OF T		
	LOCATIO	Litt	титире 3	2 17 58,	2 "		REQUIRED: ONE TENT	TH OF A SECOND			
	(FROM GP	(S)	NGITUDE /O	3 45 05.	8 W 1	DATUM REG	QUIRED: WGS 84				
	DESCRIPTION	ON RELATIN	NG WELL LOCATION TO	STREET ADDRESS AND COMMON LANDM	IARKS – PLSS (SE	CTION, TO	WNSHJIP, RANGE) WH	ERE AVAILABLE			
Ī	LICENSE NO		NAME OF LICENSED	DRILLER			NAME OF WELL DRI	LLING COMPANY	anii saaran ee ujin		
	183	3	Ja	San Maley			Visicon	Resources			
Ī	DRILLING S	TARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DE	EPTH (FT)	DEPTH WATER FIRS	ST ENCOUNTERED (FT	)		
	3191	23	3 8 23	55	5	5	Dri	4			
	COMPLETE	WELL IS:	ARTESIAN *add Centralizer info be	DRY HOLE SHALLOW (UNCO	ONFINED)		C WATER LEVEL DATE STATIC MEASUR				
	DRILLING F	LUID:	AIR	MUD ADDITIVES – SPE	CIFY:		4.4				
	DRILLING M	ETHOD:	ROTARY HAMM	MER CABLE TOOL OTHER - SPE	CIFY:		CHECK INSTAL	HERE IF PITLESS ADA LED	PTER IS		
	DEPTH	(feet bgl)	BORE HOLE	CASING MATERIAL AND/OR	CASIN	G	CASING	CASING WALL	SLOT		
	FROM	то	DIAM (inches)	GRADE (include each casing string, and note sections of screen)	CONNECT TYPE (add coupling d	TION	INSIDE DIAM. (inches)	THICKNESS (inches)	SIZE (inches		
3	0	45	6	7" one sch40	ad	7"	sch 40	-			
	45	55	6	2" PVC 8ch40 Thread			7"	Sch 40	.02		
	,	-				1					
1		7	V			71					
			1						1		
1				1 1 1 1			OSE DIT APR 4 2023 PM [ 123				
		1									
				1771							
		THE WEST THE		L HOT ANNUH AN CEAN MATTER.	D CRAVEL E	OV GIZE					
	DEPTH	(feet bgl)	BORE HOLE	LIST ANNULAR SEAL MATERIAL AN RANGE BY INTER		CK SIZE-	AMOUNT	METHO			
	FROM	ТО	DIAM. (inches)	*(if using Centralizers for Artesian wells	indicate the space	ing below)	(cubic feet)	PLACE	MENT		
			1			16 10					
				Alaca Billa	1 000	1-01	110000				
				None Puller	1 FTV	1 41	DAGE				
								-			

LOCATION

23.31.14.143

	DEPTH (f	TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONE (attach supplemental sheets to fully describe all units)	S WATER BEARING? (YES / NO)	YIELD FOR WATER- BEARING ZONES (gpm)
	5	25	25	White Caliche	Y N	
1	25	55	30	Red Sand And Caliche	Y N	
		0.0			Y N	
					Y N	
					Y N	
	11.				Y N	1
		10			Y N	
					Y N	
			1		Y N	
					Y N	
					Y N	
					Y N	
					Y N	
				Land Control of the C	Y N	-
1					Y N	
					Y N	-
					Y N	-
			1		Y N	
					Y N	
					Y N	-
	ETHODIL	CED TO E	CTIMATE VIELD	OF WATER-BEARING STRATA:	Y N TOTAL ESTIMATED	
M	PUMF		5 Sec. 1	BAILER OTHER - SPECIFY:	WELL YIELD (gpm)	
W	VELL TEST	TEST STAR	RESULTS - ATTA	ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INC ME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OV	CLUDING DISCHARGE ER THE TESTING PER	E METHOD,
M	ISCELLA?	NEOUS IN	FORMATION:			
M					SE DIT APR 4 202	3 PM[;23
PF	RINT NAM	IE(S) OF D	PRILL RIG SUPER	VISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CON	ISTRUCTION OTHER	THAN LICENSEE
	ORRECT F	RECORD C	OF THE ABOVE D	IES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BEL ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL D DAYS AFTER COMPLETION OF WELL DRILLING:		
CC Al	7	MA SIGNA	CLIP OF DELLA F	R / PRINT SIGNEE NAME	3/24/6	23

POD NO.

Released to Imaging: 12/3/2024 1:50:51 PM

LOCATION

FILE NO. C - 4712 - 700 4

TRN NO. 743189

WELL TAG ID NO. — PAGE 2 OF 2

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

## STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr:

743189

File Nbr:

C 04712

Well File Nbr: C 04712 POD4

Apr. 04, 2023

VERTEX RESOURCES
P.O. BOX 936
ROSWELL, NM 88202

### Greetings:

The above numbered permit was issued in your name on 02/21/2023.

The Well Record was received in this office on 04/04/2023, stating that it had been completed on 03/09/2023, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 02/21/2024.

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

Sincerely,

Maret Thompson (575)622-6521

drywell



ON	OSE POD NO. (V C-04672 POL		.)		WELL TAG ID NO.			OSE FILE NO(S C-04672	S).				
OCATI	WELL OWNER							PHONE (OPTIO	ONAL)				
GENERAL AND WELL LOCATION	WELL OWNER PO BOX 429		ADDRESS					CITY HOUSTON		TX 77210	ZIP		
9		T	Di	EGREES	MINUTES	SECON	DS						
LAN	WELL LOCATION	LAT	TITUDE	32	14	41.5		* ACCURACY	REQUIRED: ONE TEN	TH OF A SECOND			
VERA	(FROM GPS)		NGITUDE	-103	43	43.4	13 W	* DATUM REQUIRED: WGS 84					
1. GE	DESCRIPTION PROXIMITY		NG WELL LOCATION TO	O STREET ADD	PRESS AND COMMON	I LANDMA	ARKS – PLS	S (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVAILABLE			
	LICENSE NO. WD-118	34	NAME OF LICENSEE		ELL SOUTHER	LAND		NAME OF WELL DRILLING COMPANY WEST TEXAS WATER WELL SERVICE					
	DRILLING STA 09/01/20		DRILLING ENDED 09/01/2022	DEPTH OF C	OMPLETED WELL (F	Τ)	BORE HO	LE DEPTH (FT)	DEPTH WATER FIR	ST ENCOUNTERED (FT)			
Z	COMPLETED W	ELL IS:	ARTESIAN	V DRY HOLE SHALLOW (UNCONFINED)					STATIC WATER LEV	VEL IN COMPLETED WE N/A	LL (FT)		
VTIO	DRILLING FLUID: AIR MUD ADDITIVES – SPECIFY:												
RM/	DRILLING MET	HOD:	✓ ROTARY	HAMME	ER CABLE T	OOL	OTHE	R – SPECIFY:					
NFO	DEPTH (fe	et bgl)	BORE HOLE	CASINO	MATERIAL ANI	O/OR	-	conc	CASING	CASING WALL	SLOT		
CASING INFORMATION	FROM TO		DIAM (inches)	GRADE (include each casing string, and note sections of screen)		CON	ASING NECTION TYPE ling diameter)	INSIDE DIAM. (inches)	THICKNESS (inches)	SIZE (inches)			
8				NO	CASING IN HOLI	E							
CLIN													
DRILLING													
									05E 011 5E	<del>26 2022 m3:2</del>	8		
	DEPTH (fe	et bgl)	BORE HOLE	L	IST ANNULAR SI	EAL MA	TERIAL A	AND	AMOUNT	МЕТНО	D OF		
IAL	FROM	TO	DIAM. (inches)	GR	AVEL PACK SIZE	-RANGE	BY INTE	ERVAL	(cubic feet)	PLACEN	MENT		
TER													
8 MA					-	N/A							
ULAI													
ANNULAR MATERIAL													
3. A													

POD NO.

TRN NO.

WELL TAG ID NO.

PAGE 1 OF 2

	DEPTH (f	eet bgl)		COLO	OR AND TYPE OF MA	TERIAL E	NCOUN	TERED -		WA	ΓER	ESTIMATED YIELD FOR
	FROM	ТО	THICKNESS (feet)		WATER-BEARING Ca ch supplemental sheet				S	BEAR (YES	ING?	WATER- BEARING ZONES (gpm)
	0	10			RED SANI	, TOPSOIL				Y	✓ N	
	10	20			CALI	CHIE				Y	✓ N	
	20	37			RED SAN	DY CLAY				Y	✓ N	
	37	40			SAND	STONE				Y	✓ N	
	40	50			LIGHT RED S	SANDY CL.	AY			Y	✓ N	
J	50	78			RED CLAY W	SANDSTO	ONE			Y	✓ N	
4. HYDROGEOLOGIC LOG OF WELL	78	88			RED	CLAY				Y	✓ N	
OF V	88	91			SAND	STONE				Y	✓ N	
90	91	93			RED	CLAY				Y	✓ N	
ICL	93	100			SAND	STONE				Y	✓ N	
00	100	110			RED SAN	DSTONE				Y	✓ N	
EOI										Y	N	
ROG										Y	N	
IAD										Y	N	
4. F										Y	N	
										Y	N	
										Y	N	
										Y	N	
										Y	N	
			-							Y	N	
										Y	N	
	METHOD U	SED TO ES	STIMATE YIEL	D OF WATER-BE	ARING STRATA:				TOTAL	ESTIN	MATED	
	PUMF	A	IR LIFT [	BAILER	OTHER - SPECIF	:DRY HO	DLE		WELL	YIELD	(gpm):	0.00
Z	WELL TES				F DATA COLLECTEI BLE SHOWING DISCH							
ISION	MISCELLA	VEOLIS IN	EODMATION:									
ERV	MISCELLA	NEOUS IN	FORMATION:									
TEST; RIG SUPERVI												
RIG								กร	EDITE	EP 2	s 20 <b>2</b> 2	n(3):23
ST;												
5. TE				ERVISOR(S) THAT	T PROVIDED ONSITE	SUPERVI	SION O	F WELL CON	STRUCT	TON O	THER TH	HAN LICENSEE:
4,	RUSSELL S	SOUTHER	RLAND									
	BY SIGNIN	G BELOW	, I CERTIFY T	HAT TO THE BE	EST OF MY KNOWL	EDGE AN	D BELII	EF, THE FOR	EGOING	G IS A	TRUE A	ND CORRECT
JRE	WELL-RECO	THE ABO	OVE DESCRIBE ALSO BE FILE	D WELL. LALSO D WITH THE PER	CERTIFY THAT THE MIT HOLDER WITHI	WELL TA N 30 DAYS	G, IF RE S AFTER	QUIRED, HA	S BEEN LETION (	INSTA OF WE	LLED A	ND THAT THIS LING.
AT	7)	0	11									
6. SIGNATURE	V	08.	1111	RU	SSELL SOUTHERI	AND				09/0	1/2022	
6.5	Kussel	SIGNAT	URE OF DRILL	ER / PRINT SIG	GNEE NAME		_	_			DATE	
EO		LAL LIGE							DEGG			
	OCE INTERV							W/B-20 W/E	DET	JB D 6	LOG (V-	reion 04/20/2010\
	E NO.	(672			POD NO.	1		TRN NO.	734	JIn	LOG (Ve	rsion 04/30/2019)

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

## STATE OF NEW MEXIC OF SWELL, NM 88201 OFFICE OF THE STATE ENGINEER

Trn Nbr: 734614 File Nbr: C 04672

Well File Nbr: C 04672 POD 1

Oct. 04, 2022

BEAUX JENNINGS ENSOLUM LLC 601 N. MARIENFELD ST SUITE 400 MIDLAND, TX 79701

### Greetings:

The above numbered permit was issued in your name on 09/22/2022.

The Well Record was received in this office on 09/26/2022, stating that it had been completed on 09/01/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

Please note that another well can be drilled under this permit if the well is completed and the well log filed on or before 09/22/2023.

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

Clencer

Sincerely,

Vanessa Clements (575)622-6521

drywell

Mike A. Hamman, P.E. State Engineer



Roswell Office 1900 WEST SECOND STREET ROSWELL, NM 88201

## STATE OF NEW MEXICO OFFICE OF THE STATE ENGINEER

Trn Nbr: 734614 File Nbr: C 04672

Well File Nbr: C 04672 POD 1

Oct. 04, 2022

WADE DITTRICH
OXY USA INC.
P.O. BOX 4294
HOUSTON, TX 77210

Greetings:

The above numbered permit was issued in your name on 09/22/2022.

The Well Record was received in this office on 09/26/2022, stating that it had been completed on 09/01/2022, and was a dry well. The well is to be plugged according to 19.27.4.30 NMAC.

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Clemen

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

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Vanessa Clements (575)622-6521

drywell



**USGS Home Contact USGS** Search USGS

**National Water Information System: Web Interface** 

**USGS** Water Resources

Groundwater United States GO

#### Click to hideNews Bulletins

• Explore the NEW USGS National Water Dashboard interactive map to access real-time water data from over 13,500 stations nationwide.

Groundwater levels for the Nation

Important: Next Generation Monitoring Location Page

Search Results -- 1 sites found

Agency code = usgs site\_no list =

• 321609103445901

Minimum number of levels = 1

Save file of selected sites to local disk for future upload

## USGS 321609103445901 23S.31E.26.34411

Eddy County, New Mexico

Latitude 32°16'11.9", Longitude 103°45'01.2" NAD83

Land-surface elevation 3,451.00 feet above NGVD29

The depth of the well is 365 feet below land surface.

This well is completed in the Other aquifers (N9999OTHER) national aquifer.

This well is completed in the Dewey Lake Redbeds (312DYLK) local aquifer.

### **Output formats**

				Output 10	illiats			
Table of data								
Tab-separated data	<u>a</u>							
Graph of data								
Reselect period								
	?		Water	Water				
	144-4	?	level,	level,	Deferenced	?	?	?

Date	Time	? Water- level date- time accuracy	? Parameter code	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Status	? Method of measurement	? Measuring agency	? Source measur
1959-02-04		D	62610		3194.13	NGVD29	Р	Z		
1959-02-04		D	62611		3195.83	NAVD88	Р	Z		
1959-02-04		D	72019	256.87			Р	Z		
1972-09-20		D	62610		3200.53	NGVD29	1	Z		
1972-09-20		D	62611		3202.23	NAVD88	1	Z		
1972-09-20		D	72019	250.47			1	Z		
1988-03-17		D	62610		3201.98	NGVD29	1	S		
1988-03-17		D	62611		3203.68	NAVD88	1	S		
1988-03-17		D	72019	249.02			1	S		
2013-01-17	00:00 UTC	m	62610		3349.45	NGVD29	Р	S	USGS	
2013-01-17	00:00 UTC	m	62611		3351.15	NAVD88	Р	S	USGS	
2013-01-17	00:00 UTC	m	72019	101.55			Р	S	USGS	

F	xn	laı	1ati	ion

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day

Section	Code	Description
Water-level date-time accuracy	m	Date is accurate to the Minute
Parameter code	62610	Groundwater level above NGVD 1929, feet
Parameter code	62611	Groundwater level above NAVD 1988, feet
Parameter code	72019	Depth to water level, feet below land surface
Referenced vertical datum	NAVD88	North American Vertical Datum of 1988
Referenced vertical datum	NGVD29	National Geodetic Vertical Datum of 1929
Status	1	Static
Status	Р	Pumping
Method of measurement	S	Steel-tape measurement.
Method of measurement	Z	Other.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement		Not determined
Source of measurement	S	Measured by personnel of reporting agency.
Water-level approval status	А	Approved for publication Processing and review completed.

Questions or Comments

<u>Help</u> Data Tips

Explanation of terms

Subscribe for system changes

Accessibility FOIA Privacy Policies and Notices

<u>U.S. Department of the Interior</u> | <u>U.S. Geological Survey</u> **Title: Groundwater for USA: Water Levels** 

URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: <u>USGS Water Data Support Team</u> Page Last Modified: 2024-09-05 18:12:37 EDT

0.31 0.22 nadww01





STATE ENGINEER OFFICE

AND WELL LOCATION	C- 6	JMBER (WELL 2348 ER NAME(S) KMC	Cloy - M	<u>C</u> -	2348	C-2348  NB (OPTIONAL)  32-943-4459							
ELL	WELL OWN	ER MAILING	ADDRESS	Diarrow			Tal	NM	8825	ZIP			
<b>≱</b>	WELL	<u> </u>	16 23 P	CREES	MINUTES SECO	NDS	<u> </u>	1000	000-	2			
	LOCATIO	N LATI	TUDE 32	16	12.91	N	J	REQUIRED: ONE TEN	TH OF A SECOND				
GENERAL	(FROM GI	LON	HTUDE 103	45	··· w		QUIRHD: WGS 84						
1. GE	DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE  Hwy 128 to 18 mm / m. /e N . / m. /e West on Red Road												
	LICENSE NUMBER NAME OF LICENSED DRILLER NAME OF WELL DRILLING COMPANY												
ĺ	165	4		SIRMAN	·			Semen L	Rilling +6	ust. LLC			
	DRILLINGS	TARTED	DRILLING ENDED	7 <i>00</i>	LETED WELL (FT)		LE DEPTH (PT)	DEPTH WATER FIRE	ST ENCOUNTERED (FT	·			
ĺ	EL IN COMPLETED W	ELL (FT)											
COMPLETED WELL IS: ARTESIAN DRY HOLE SHALLOW (UNCONFINED)													
CASING INFORMATION	DRILLING F	LUID:	MAIR	MUD	<del></del>								
ORN	DRILING	ÆTHOD:	ROTARY	HANDER	CABLE TOOL	OTHE	R - SPBCIFY:						
N.		(foct bgl) TO	BORE HOLE		ATERIAL AND/OR GRADE		ASING	CASING	CASING WALL	SLOT			
SENC	FROM	10	DIAM (inches)		n casing string, and	CONNECTION TYPE		INSIDE DIAM. (inches)	THICKNESS (inches)	SIZE (inches)			
45	0	540	10	PVC		Certa-Lok		.6	DR-17	BENK			
DRILLING	560	620	10	Puc Ca			a Lok	6	DR-17	1032 5			
2. Di	620	680	10	PVC		Certolox		6	DRIT	BLANK			
	680	700	10	Puc		Les	te lok	6	DR-17	1032 Se ied			
									- :				
	DEPTH	(foet bgi)	BORE HOLE		ANNULAR SEAL MA			AMOUNT	метно				
ZX.	FROM	то	DIAM. (inches)		L PACK SIZE-RANGE	BY INTE	RVAL	(cubic feet)	PLACE	AENT			
ATE		20	10	.3/9	bentonite	lole f	stug	le peq	s gra	votes !			
ANNULAR MATERIAL	67	700	10	3/8	per grav	el		5 yds	gran	+4			
NNU			†						<del></del>	<del></del>			
3. A				-	,								
			<u>                                     </u>	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	· · ·		- ,					
	OSE INTER		348		POD NUMBER	· 1		WELL RECORD &	LOG (Version 06/0	8/2012)			
	·TOY	<u>ر- ما</u>	040		235.31E.20			ivestoci		.050			

	DEPTH (	feet bgl) TO	THICKNESS (feet)	COLOR AND TYPE OF MATERIAL ENCOUNTERED - INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONE (attach supplemental sheets to fully describe all units)	s	WAT BEAR (YES	ING?	ESTIMAT YIELD FO WATER BEARIN ZONES (20	OR {- IG				
	7)	10	10	BROWN SAND			☐ N	201,20 (8)	/				
	10	15	5	white caliche			- X-	<del>'</del>					
	15	125		7 Y	□N								
	125.	315	190	BROWN SANdstone Red Shele	1	JΥ	DN	· · · · · · · · · · · · · · · · · · ·	·				
	315	700	385	Red Sand stone	1	11 Y	Пи	10					
.,					1	∃Y	□и						
HYDROGEOLOGIC LOG OF WELL				·	7	] Y	□и						
OF	<del></del>				1	ΒY	Пи						
8					. (	Υ	וא□						
)ICI		400			[	ΙY	מ						
707						JΥ	אם	•					
GEO					(	JΥ	אם						
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EXI				· · · · · · · · · · · · · · · · · · ·	] [	JΥ	Пи						
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					1	□ Y	אם	•					
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				· · · · · · · · · · · · · · · · · · ·		⊒¥	שאם ≅						
						] Y	ㅁ낕	. M.					
			TIMATE YIELD	OF WATER-BEARING STRATA: DPUMP	TOTAL				. ]				
	HAIR LIF		BAILER	OTHER - SPECIFY:	WELL	TIEĻĻU.	(gpm):	P					
NO	WELL TES			ACH A COPY OF DATA COLLECTED DURING WELL TESTING, INC IE, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OV									
VISI	MISCELLA	NEOUS INF	ORMATION:				· <u>-</u>	35	哥				
PER					•			من د	٠.				
Test; Rig Supervision	no	re						•					
15	DDD-FF 37 43	TE (B) OF TH	II I DIO CIMPA	VISOR(8) THAT PROVIDED ONSITE SUPERVISION OF WELL CON	OTTO YOU	1031 ~	TIPD ~	ANTION	븕				
S.T.	<b></b> .	• •	all rig sufer	'.	SIROCI	IONOI	nek ib	IAN LICENSI	C.E.				
		ne							<u></u>				
URB	CORRECT I	LECORD OF	THE ABOVE D	ES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELL ESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL R D DAYS AFTER COMPLETION OF WELL DRILLING:	er, the Ecord v	POREO WITH T	UING IS HE STA	a true an Te enginee	D IR				
SIGNATURE	$\cap$	0	A. ~		1	/							
. S.	SIGNATURE OF DRILLER / PRINT SIGNEE NAME    11/3/13   DATE												
=					<del></del> -								
_	OSE INTERI		211/2			RD&L	06 (Va	sion 06/08/20	)12)				
,FIL	P NUMBER	FILE NUMBER C-2348 POD NUMBER TRN NUMBER 491413											



## WELL RECORD & LOG

## OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

DSE DIT APR 27 2023 PKS:24

	OSE POD NO		NO.)			WELL TAG ID NO.			OSE FILE NO	S).				
ION	POD 1 (T					N/A			C-4726					
CAT	WELL OWN Devon En		E(S)						PHONE (OPTION 575-748-18)					
10	WELL OWN		DIC 41	DDBESS								OT A TE	,	ZIP
WELL	6488 7 Ri			DDRESS					Artesia			STATE NM	88210	ZIP
GENERAL AND WELL LOCATION	WELL LOCATIO		LATIT		DEGREES 32	MINUTES 20	SECO:		* ACCURACY	REQUIRED: 0	ONE TENTH	I OF A	SECOND	
ERA	(FROM G	PS)	LONG	ITUDE	103	43	47.	.22 W	* DATUM REG	QUIRED: WGS	84			
GEN	DESCRIPTI				O STREET ADD	RESS AND COMMON	LANDM	IARKS – PLS	SS (SECTION, TO	WNSHJIP, RA	NGE) WHE	RE AV	AILABLE	
	NW L2 S	ec.1 T2	3S R3	31E NMPM										
	LICENSE NO		7	NAME OF LICENSE		Inchia D. Athina				NAME OF V				
	12		_			Jackie D. Atkins							g Associates, I	
	DRILLING S		, ,	DRILLING ENDED 4/17/23		OMPLETED WELL (FT rary Well Materia			ble depth (ft)   depth water first encountered (ft)   ±55   N/A					
z	COMPLETE	D WELL	IS:	ARTESIAN	✓ DRY HO	LE SHALLOV	W (UNC	ONFINED)		WATER LEVE PLETED WEL		\	DATE STATIC 4/25	
TIO	DRILLING F	LUID:		AIR	MUD MUD	ADDITIVI	ES – SPE	CIFY:						
CASING INFORMATION	DRILLING N	METHOD	. R	OTARY HAM	MER CAE	LE TOOL 🗸 OTHE	ER – SPE	CIFY: H	Hollow Stem	Auger	CHECK H INSTALL	ERE II	F PITLESS ADAI	PTER IS
NFO	DEPTH	(feet bg	(1)	BORE HOLE	CASING	MATERIAL AND	/OR		anic	CASI	T		SING WALL	CI OT
I DN	FROM	ТС	)	DIAM	(inaluda	GRADE	and.	CON	ASING NECTION	INSIDE I			IICKNESS	SLOT SIZE
ASI	(inches) (inclu				note	each casing string, sections of screen)	and		TYPE ling diameter)	(inche	es)		(inches)	(inches)
8.0	0	55	5	±6.25		Soil Boring								
DRILLING &		_												
E E		-			-									
2. DF		-	_									-		
"		_			_			-						
	DEPTH	(feet bg	(1)	BORE HOLE	L	IST ANNULAR SE	AL MA	TERIAL A	AND	AM	OUNT		МЕТНО	D OF
IAL	FROM	ТС	)	DIAM. (inches)	GRA	VEL PACK SIZE-	RANG	E BY INTE	ERVAL	(cub	ic feet)		PLACEN	MENT
ANNULAR MATERIAL						N	I/A							
MAJ														
AR														
IUL.														
AN												_		
6.					-							$\rightarrow$		
	OSE INTER			,									(Version 01/2	8/2022)
_		04			1	POD NO	. [		TRN		45(60	1	P. 07	1.05.3
LOC	CATION	35.	31	E.01.1	14				WELL TAG I	D NO.			PAGE	1 OF 2

	DEPTH (	feet bgl)		COLOR AN	D TUDE OF MATE	DIAL EX	ICOL DITERED			ESTIMATED
	FROM	то	THICKNESS (feet)	INCLUDE WATE	D TYPE OF MATE  R-BEARING CAV  plemental sheets to	ITIES OF	R FRACTURE ZONE	ES	WATER BEARING? (YES / NO)	YIELD FOR WATER- BEARING ZONES (gpm)
	0	9	9	Sand, medium-fi	ne grained, poorly,	graded, u	nconsolidated, brown		Y ✓N	
	9	14	5	Sand, medium-fin	e grained, poorly, gr	aded, ser	ni-consolidated, brow	'n	Y ✓N	
	14	20	6	Sand, medium-	fine grained, poorly	, graded,	unconsolidated, tan		Y ✓N	
	20	45	25	Sand, fine	grained, poorly, gra	ded, unce	onsolidated, tan		y ✓n	
	45	55	10	Clay,	stiff, with very-fine	silt, redd	lish brown		Y ✓N	
T									Y N	
4. HYDROGEOLOGIC LOG OF WELL									Y N	
OF									Y N	
507									Y N	
COL									Y N	
070									Y N	
GEO									Y N	
)RO									Y N	
HAI									Y N	
4.									Y N	
						Y N				
									Y N	
									Y N	
									Y N	
									Y N	
									Y N	
	METHOD U	JSED TO ES	STIMATE YIELD	OF WATER-BEARING	G STRATA:				AL ESTIMATED	
	PUM	Р ПА	IR LIFT	BAILER OT	HER – SPECIFY:			WEI	LL YIELD (gpm):	0.00
NO	WELL TES			ACH A COPY OF DAT ME, AND A TABLE SH						
5. TEST; RIG SUPERVISION	MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to ten feet below ground surface(bgs), then hydrated bentonite chips ten feet bgs to surface.  10 Tomb Raider 1 Fed 1									
LES	PRINT NAM	ME(S) OF D	RILL RIG SUPER	RVISOR(S) THAT PRO	VIDED ONSITE S	JPERVIS	SION OF WELL CO	NSTRU	CTION OTHER TH	IAN LICENSEE:
'n	Shane Eldri	dge, Came	ron Pruitt							
6. SIGNATURE	CORRECT AND THE F	RECORD O PERMIT HO	F THE ABOVE I	FIES THAT, TO THE B DESCRIBED HOLE AN 80 DAYS AFTER COM	D THAT HE OR S	HE WIL	L FILE THIS WELL			
S. SIGN	Jack Ati	kins		Jac	ckie D. Atkins		_		4/26/23	
		SIGNAT	URE OF DRILLE	ER / PRINT SIGNEE	NAME				DATE	
FO	R OSE INTER	NAL USE					WR-20 WI	ELL RE	CORD & LOG (Ve	rsion 01/28/2022)
FIL		0472			POD NO.		TRN NO.	70	15169	
LO	LOCATION 235, 3 [E, O(, ) 14 WELL TAG ID NO. PAGE 2 OF 2									



WELL OWN	ER NAME(S)	1					PHONE (OPTION	ONAL)		
OXY US II	NC									
PO BOX 4		ADDRESS					HOUSTON		TX 77210	ZI
WELL	N		EGREES 32	MINUTES 21	SECOND 12.43		* ACCURACY	REQUIRED: ONE TEN	TH OF A SECOND	
(FROM GP	PS)	NGITUDE	-103	42	43.74			QUIRED: WGS 84		
DESCRIPTION PROXIMIT		NG WELL LOCATION TO	STREET ADDRI	ESS AND COMMO	N LANDMAI	KS – PLS	SS (SECTION, TO	WNSHJIP, RANGE) WH	ERE AVAILABLE	
LICENSE NO		NAME OF LICENSED		LL SOUTHER	LAND			NAME OF WELL DR	ILLING COMPANY S WATER WELL SE	RVIO
DRILLING S'	TARTED	DRILLING ENDED 09/01/2022		MPLETED WELL (F		BORE HO	LE DEPTH (FT)		ST ENCOUNTERED (FT	
				110				STATIC WATER LEV	ZEL IN COMPLETED WI	ELL (I
COMPLETE	O WELL IS:	ARTESIAN	✓ DRY HOLE	SHALLO	OW (UNCON	FINED)			N/A	
DRILLING F		✓ AIR	MUD		VES – SPECII					
DRILLING M		ROTARY	HAMMER	_ CABLE		OTHE	R – SPECIFY:		T	_
FROM	(feet bgl)	BORE HOLE DIAM (inches)	(include ea	(include each casing string, and			ASING NECTION TYPE lling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	S (ir
			NO CA	ASING IN HOL	E					$\perp$
										+
										+
										+
DEPTH	(feet bgl)	BORE HOLE	LIS	T ANNULAR S	EAL MAT	ERIAL	AND	AMOUNT	METHO	DD O
FROM	ТО	DIAM. (inches)	GRAV	EL PACK SIZE	E-RANGE I	Y INTE	ERVAL	(cubic feet)	PLACE	
					N/A			nse nu sep	20 202 <b>2</b> PM1;31	
								QUE ON UE		
	NAL USE							WELL RECORD		

	DEPTH (f	eet bgl)	THICKNESS	COLOR AN	ID TYPE OF MA	ATERIAL E	NCOUN	TERED -		WA		ESTIMATED YIELD FOR
	FROM	то	(feet)	INCLUDE WATE (attach suj	ER-BEARING C pplemental shee				S	BEAR (YES		WATER- BEARING ZONES (gpm)
	0	10		RED SAND							✓ N	
	10	14			CAL	ICHIE				Y	✓ N	
	14	17			RED	SAND				Y	✓ N	
797	17	40			RED SAN	DY CLAY				Y	✓ N	
	40	90			SAND	STONE				Y	✓ N	
7	90	97			RED	CLAY				Y	✓ N	
WEL	97	100			SAND	STONE				Y	✓ N	
4. HYDROGEOLOGIC LOG OF WELL	100	110			RED CLAY WI	TH SANDS	TONE			Y	✓ N	
90'										Y	N	
ICI										Y	N	
507										Y	N	
EO										Y	N	
ROC										Y	N	
НХВ										Y	N	
4										Y	N	
										Y	N	
					,					Y	N	
										Y	N	
										Y	N	
										Y	N	
										Y	N	
	METHOD U	SED TO ES	STIMATE YIELD	OF WATER-BEARIN	G STRATA:				TOT	AL ESTIN	/ATED	
	PUME	- <b></b>	IR LIFT	BAILER O	THER – SPECIF	Y:DRY HO	DLE		WEL	L YIELD	(gpm):	0.00
NO	WELL TEST  TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING DISCHARGE METHOD, START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.											
TEST; RIG SUPERVISION	MISCELLA	NEOUS INI	FORMATION:									
G SUP								OSE	DII S	SEP 20	2022 Pi	41:31
l; RI												
LESI	PRINT NAM	E(S) OF D	RILL RIG SUPER	VISOR(S) THAT PRO	VIDED ONSIT	E SUPERVI	SION OF	WELL CON	STRU	CTION O	THER TH	AN LICENSEE:
5.7	RUSSELL S	OUTHER	RLAND									
(+)				AT TO THE BEST O								
URI	WELL RECO	ORD WILL	ALSO BE FILED	WITH THE PERMIT	HOLDER WITH	IN 30 DAYS	AFTER	THE COMPI	LETIO	N OF WE	LL DRILI	LING.
SIGNATURE	Kum	e Si	with f	RUSSEI	L SOUTHER!	AND	1			09/0	1/2022	
6.	- Wasi	SIGNAT	URE OF DRILLE	R / PRINT SIGNEE	•	1-	_ '	_			DATE	
	E NO. ( – (				POD NO.	1		TRN NO.		242		rsion 04/30/2019)
		14663	) CE, 31.3	1.7	TOD NO.		WELL		13	270		PAGE 2 OF 2
Loc		W. V	- 10 1 J	1111			WELL	TAG ID NO.				111002012

PAGE 1 OF 2



## WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER
4-23-12

www.ose.state.nm.us

Anreated wall loa

						<u> </u>	Colec	<del>X WY</del>	<u> 104   104   </u>	=		
	POD NUMB			MBER)				OSE FILE NU	` '			
NO	C-03528	3-POD	)1					C-03528-	POD1			
Y.	WELL OWN						PHONE (OPTIONAL)					
700	MARK 8	MA &	ŧΕΤ΄	TE MCCLC	Υ			432-940-	4459			
LE	WELL OW			ADDRESS		`		CITY		STATE		ZIP
WE	РО ВОХ	( 10/6	) 					JAL		NM ————	88	3252
Z.D	WELL				DEGREES	MINUTES SEC	CONDS					
L	LOCATI	ON	LAT	TTUDE	32	13	29.00 N		REQUIRED: ONE TEN	TH OF A SEC	COND	
ER.	(FROM G	iPS)	LON	GITUDE	103	39	44.60 W	• DATUM RE	QUIRED: WGS 84			
1. GENERAL AND WELL LOCATION	DESCRIPT	ION REL	ATIN	G WELL LOCAT	ON TO STREET ADDRE	SS AND COMMON LAN	DMARKS					
<del>-</del>	6000	100	اسر	ec Ber	ed as Mo	AP (Non-6,	PS)					
	(2.5 ACF			(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION		TOWNSHIP		RANGE	١.
_	NW,			W Va	NW 1/4	NE 14	1	5	24	NORTH	32	EAST WEST
Ϋ́	SUBDIVISI	· .			7	101	LOT NUN	<u> </u>	BLOCK NUMBER	SOUTH	UNIT/TRA	
PT.K												
2. OPTIONAL	HYDROGR	APHIC S	URVE	Y	<del></del>				MAP NUMBER		TRACT NU	JMBER
,,,												
	LICENSE N	UMBER		NAME OF LICE	ENSED DRILLER				NAME OF WELL DE	RILLING CON	4PANY	
	WD	1682		ЈОНИ ИО	RRIS				HUNGRY HO	RSE,LL	C	
	DRILLING	STARTE	D	DRILLING ENI	DED DEPTH OF COM	PLETED WELL (FT)	BORE HO	LE DEPTH (FT)	DEPTH WATER FIR			
Z	2-20-12 3-12-12 541 541						541		133			
DRILLING INFORMATION	0014045	20.1101.1	10		DRY HOLE	✓ SHALLOW (UN	CONTENTED		STATIC WATER LE	VEL IN COM	PLETED WE	LL (FT)
<u>K</u>	COMPLETE	ED WELL	. 15:	ARTESIA	DK1 HOLE	SHALLOW (ON	CONFINED					
N.FO	DRILLING	FLUID:		AIR	✓ MUD	ADDITIVES – S	PECIFY:					
VC.	DRILLING	METHO	D:	<b>✓</b> ROTARY	HAMMER	CABLE TOOL	Пто	ER – SPECIFY:				
=======================================	DEPT	H (FT)		BORE HOL	· I	CASING	I	NECTION	INSIDE DIA.		3 WALL	SLOT
DRI	FROM	TO		DIA. (IN)	N	ATERIAL		(CASING)	CASING (IN)	<u> </u>	IESS (IN)	SIZE (IN)
ų	0	54	1	8 3/4		PVC	G	LUED	6"	3	1/8	1/8
			-					<del></del>				
							<u> </u>			-		
	Denn	11 (1797)				ODLATION DECOR	IDTION OF T	DINCIPAL	ATER DEADING	TD AT 4		VIE 5
.<	FROM	H (FT)	`	THICKNES (FT)	SS   F	ORMATION DESCR (INCLUDE WATE			R FRACTURE ZON			YIELD (GPM)
STRATA	133	15	-	19				SAND		,		UK
ST	- 100	10.										4
ING	· · · · · · · · · · · · · · · · · · ·											
BEARING				_					1			
R B							. 08	HAY SIME	1			
ΛTE	метноо с	JSED TO	ESTI	MATE YIELD OF	WATER-BEARING STR	. <i> †</i>   ΑΤΑ	11 A. a.	~ 0.C()	TOTAL ESTIMATE	D WELL YIEL	D (GPM)	
4. WATER	N/A					·	الدور و	ATE LINE	Ţs			
	<u> </u>				<u></u>	<u> </u>	<del>110 122</del> 1	Tiells 3	TOTAL ESTIMATES			
	FOR OSE											/9/08)
	FILE NUMBER (-3528 POD NUMBER (-03528-POD TRN NUMBER 491386											

LOCATION 24.32, 15.21

	TYPE OI	C DI IMD:	SUBMER	RSIBLE	☐ JET	☐ NO PUMP – WELL NOT EQUIPPED			
M.	TURBINE CYLINDER OTHER-SPECIFY: UNKNOW		☐ OTHER – SPECIFY: UNKNOWN	. <del> </del>					
SEAL AND PUMP	9		DEPTH	I (FT)	BORE HOLE	MATERIAL TYPE AND SIZE	AMOUNT	метн	
N. I	ANNU	JLAR	FROM	ТО	DIA. (IN)		(CUBIC FT)	PLACE	
EAL	SEAL GRAVE		0	20	8 3/4	GROUT & CEMENT	8	TC	)P
5.8	OKAVE	LIACK					<u> </u>	<u> </u>	
								<u> </u>	
	DEPTI	H (FT)	THICK			COLOR AND TYPE OF MATERIAL ENCOUNT		WA'	
	FROM	ТО	(F1		(INCLU	JDE WATER-BEARING CAVITIES OR FRACT	URE ZONES)	BEAR	
	0	3	3			TOPSOIL		YES	Ø NO
	3	18	1:			CALICHE		☐ YES	Ø NO
, ,	18	26	8			SAND		☑ YES	ОМ
	26	133	10	7		RED CLAY		☐ YES	☑ NO
. ∃	133	152	19	<del>-</del>		SAND	······	☑ YES	ОИ
κE	152	318	16	6		RED CLAY		☐ YES	Ø NO
Ö	318	345	27	7		SAND	<u></u>	☑ YES	ОМ
GEOLOGIC LOG OF WELL	345	384	39	3	<u> </u>	RED CLAY AND ROCK	×.	☐ YES	Ø NO
25	384	418	34	4		SAND		☑ YES	□ NO
Ğ	418	444	26	26 RED CLAY AND ROCK			☐ YES	Ø NO	
GEC	444	468	24	1		✓ YES	□ №		
6.	468	500	32 RED CLAY .			☐ YES	Ø NO		
į (	500	508	8	8 SAND			☑ YES	□ №	
	508	541	33	3		RED CLAY AND ROCK		☐ YES	ON 🖸
	_							☐ YES	□ NO
								☐ YES	□ NO
								☐ YES	□ NO
			АТТАСН	ADDITION	AL PAGES AS NE	EDED TO FULLY DESCRIBE THE GEOLOGIC	LOG OF THE WELL		
o			METHOD:	BAILE	R DUMP	☐ AIR LIFT ☐ OTHER – SPECIFY: N//	4		
	WELL	. TEST				ATA COLLECTED DURING WELL TESTING,		ME, END TI	ME,
7. TEST & ADDITIONAL INF					NG DISCHARGE A	AND DRAWDOWN OVER THE TESTING PERI	OD.		
L Oi	ADDITION	VAL STATEN	MENTS OR EXPL	ANATIONS:			•		
DDT									
\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \									
EST									
7									
		<u> </u>						<del></del>	
₩						ST OF HIS OR HER KNOWLEDGE AND BELI OTHAT HE OR SHE WILL FILE THIS WELL R			
<u>1</u>						ON OF WELL DRILLING:			
8. SIGNATURE			1 - 1	To the		4-17-17			
8. SI	_	40	SICH A TILLIT	VE OF DRUIT	ED.	<u>4-23-12</u>			
			SIGNATUR	E OF DRILL	LEK	DATE			

FOR OSE INTERNAL USE		WELL RECORD <	& LOG (Version 6/9/08)
FILE NUMBER C-3528	POD NUMBER (-03528-POD1	TRN NUMBER	491386
LOCATION 24. 32. 15.2111		,	PAGE 2 OF 2

## **Locator Tool Report**

### General Information:

Application ID:29

Date: 04-03-2012

Time: 08:10:09

WR File Number: C-03528-POD1

Purpose: POINT OF DIVERSION

Applicant First Name: MARK & ANNETTE MCCLOY

Applicant Last Name: NEW STOCK WELL (COTTON PLACE)(WELL LOG LOCATION) (Based on Application)
NOT Driller 695

GW Basin: CARLSBAD

County: LEA

Critical Management Area Name(s): NONE Special Condition Area Name(s): NONE

Land Grant Name: NON GRANT

## PLSS Description (New Mexico Principal Meridian):

NW 1/4 of NW 1/4 of NW 1/4 of NE 1/4 of Section 15, Township 24S, Range 32E.

## **Coordinate System Details:**

## Geographic Coordinates:

Latitude:

32 Degrees 13 Minutes 29.0 Seconds N

Longitude:

103 Degrees 39 Minutes 44.6 Seconds W

## Universal Transverse Mercator Zone: 13N

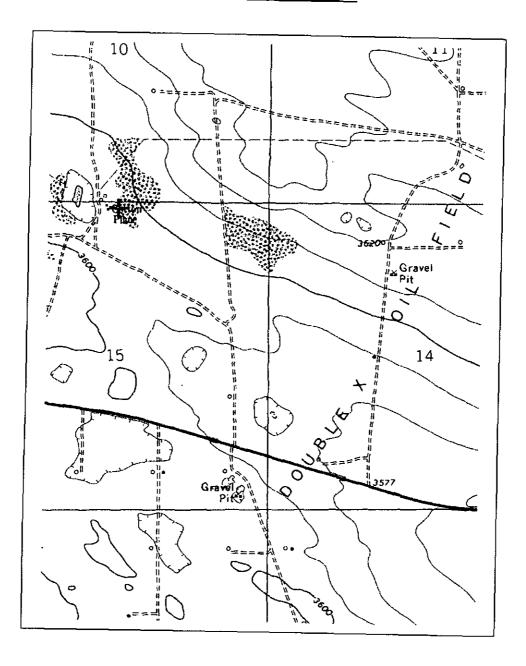
NAD 1983(92) (Meters) N: 3,566,130 E: 626,040 NAD 1983(92) (Survey Feet) N: 11,699,877 E: 2,053,934 NAD 1927 (Meters) N: 3,565,928 E: 626,089 NAD 1927 (Survey Feet) N: 11,699,215 E: 2,054,092

## State Plane Coordinate System Zone: New Mexico East

NAD 1983(92) (Meters) N: 135,982 E: 228,239 NAD 1983(92) (Survey Feet) N: 446,136 E: 748,815 NAD 1927 (Meters) N: 135,964 E: 215,686 NAD 1927 (Survey Feet) N: 446,077 E: 707,631

## **NEW MEXICO OFFICE OF STATE ENGINEER**

## **Locator Tool Report**





WR File Number: C-03528-POD1 Scale: 1:19,970

Northing/Easting: UTM83(92) (Meter): N: 3,566,130 E: 626,040

Northing/Easting: SPCS83(92) (Feet): N: 446,136 E: 748,815

GW Basin: Carlsbad

Page 2 of 2 Print Date: 04/03/2012

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

Phone: (505) 629-6116
Online Phone Directory
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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

Action 405600

## **QUESTIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	405600
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

### QUESTIONS

Prerequisites				
Incident ID (n#)	nRM2003860041			
Incident Name	NRM2003860041 TOMCAT 21 FEDERAL 1 @ 30-025-33356			
Incident Type	Produced Water Release			
Incident Status	Remediation Plan Received			
Incident Well	[30-025-33356] TOMCAT 21 FEDERAL #001			

Location of Release Source					
Please answer all the questions in this group.					
Site Name	TOMCAT 21 FEDERAL 1				
Date Release Discovered 01/24/2020					
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 fo	or the volumes provided should be attached to the follow-up C-141 submission.
Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Corrosion   Flow Line - Production   Produced Water   Released: 48 BBL   Recovered: 40 BBL   Lost: 8 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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# 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 405600

QUESTI	ONS (continued)				
Operator:  DEVON ENERGY PRODUCTION COMPANY, LP  333 West Sheridan Ave.  Oklahoma City, OK 73102	OGRID: 6137 Action Number: 405600				
·	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)				
QUESTIONS					
Nature and Volume of Release (continued)					
Is this a gas only submission (i.e. only significant Mcf values reported)	No, according to supplied volumes this does not appear to be a "gas only" report.				
Was this a major release as defined by Subsection A of 19.15.29.7 NMAC	Yes				
Reasons why this would be considered a submission for a notification of a major release	From paragraph A. "Major release" determine using: (1) an unauthorized release of a volume, excluding gases, of 25 barrels or more.				
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.	e. gas only) are to be submitted on the C-129 form.				
Initial Response  The responsible party must undertake the following actions immediately unless they could create a 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 ted 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	knowledge and understand that pursuant to OCD rules and regulations all operators are require 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 t does not relieve the operator of responsibility for compliance with any other federal, state, or				
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvn.com Date: 11/21/2024				

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

Phone: (505) 629-6116

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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 405600

**QUESTIONS** (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	405600
	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	Greater than 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	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	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	associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.	
Have the lateral and vertical extents of contamination been fully delineated	Yes	
Was this release entirely contained within a lined containment area	No	
Soil Contamination Sampling: (Provide the highest observable value for each, in mil	lligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	2020	
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	29	
GRO+DRO (EPA SW-846 Method 8015M)	29	
BTEX (EPA SW-846 Method 8021B or 8260B)	0	
Benzene (EPA SW-846 Method 8021B or 8260B)	0	
Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed which includes the anticipated timelines for beginning and completing the remediation.	defforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC,	
On what estimated date will the remediation commence	01/31/2025	
On what date will (or did) the final sampling or liner inspection occur	12/31/2025	
On what date will (or was) the remediation complete(d)	12/31/2025	
What is the estimated surface area (in square feet) that will be reclaimed	530	
What is the estimated volume (in cubic yards) that will be reclaimed	79	
What is the estimated surface area (in square feet) that will be remediated	530	
What is the estimated volume (in cubic yards) that will be remediated	79	
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 405600

**QUESTIONS** (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	405600
	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	HALFWAY DISPOSAL AND LANDFILL [FEEM0112334510]	
OR which OCD approved well (API) will be used for off-site disposal	Not answered.	
OR is the off-site disposal site, to be used, out-of-state	Not answered.	
OR is the off-site disposal site, to be used, an NMED facility	Not answered.	
(Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms)	Not answered.	
(In Situ) Soil Vapor Extraction	Not answered.	
(In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.)	Not answered.	
(In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.)	Not answered.	
(In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.)	Not answered.	
Ground Water Abatement pursuant to 19.15.30 NMAC	Not answered.	
OTHER (Non-listed remedial process)	Not answered.	
D 0 1 " D (40 45 00 44 NAAO 1 " " 1 1 1 1 " " 1 1 1 1 1 1 1 1 1 1	T	

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: James Raley Title: EHS Professional I hereby agree and sign off to the above statement Email: jim.raley@dvn.com Date: 11/21/2024

The OCD recognizes that proposed remediation measures may have to be minimally adjusted in accordance with the physical realities encountered during remediation. If the responsible party has any need to

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

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, Page 5

Action 405600

**QUESTIONS** (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	405600
	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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# State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. Santa Fe, NM 87505

QUESTIONS, Page 6

Action 405600

**QUESTIONS** (continued)

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	405600
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	368360
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	07/31/2024
What was the (estimated) number of samples that were to be gathered	4
What was the sampling surface area in square feet	600

Remediation Closure Request		
Only answer the questions in this group if seeking remediation closure for this release because all remediation steps have been completed.		
Requesting a remediation closure approval with this submission	No	

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

CONDITIONS

Action 405600

#### **CONDITIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	405600
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

#### CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan approved with the following conditions: 1) Using Google Earth historical imagery, a large bare patch of soil appears in 2022 that was not present in 2017, in area west of the pad that will need to be explored before delineation is complete. Due to this being a historical release, samples should be collected in 1 foot increments beginning at surface, down to a depth of 4'. A sampling plan should be emailed to the OCD for approval, prior to completing delineation.	12/3/2024
scwells	2) Under Incident Files, uploaded on 5/21/2020, there is email correspondence from Tom Bynum that states: "We have decided to treat this area with an insitu remediation and would very much appreciate the extra time needed to ensure the treatment has been effective." Any soil that has been chemically treated will need to be removed for disposal.	12/3/2024
scwells	3) Pg. 3 of report states: "Laboratory analytical results for the remaining samples collected within the AOC (BH01, BH02, and BH08) indicated that chloride concentrations exceeded the NMOCD reclamation standard requirement of 600 milligram per kilogram (mg/kg) within the top four feet." Your laboratory results do not indicate that BH08 is over the reclamation standards. Please verify.	12/3/2024
scwells	Submit remediation plan or remediation closure report to the OCD by 3/3/2025.	12/3/2024