



SITE CHARACTERIZATION AND REMEDIATION PLAN

Prepared For:

Devon Energy Production Company, LP

5315 Buena Vista Dr.

Carlsbad, NM 88220

Site Information:

Tomcat 8 Federal #001

Incident Number nKL1622549584

Unit P, Section 08, Township 23 South, Range 32 East

Lea County, New Mexico

(32.3143768°, -103.690033°)

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 soil sampling activities associated with assumed residual impacts to soil due to an inadvertent release of crude oil and produced water at the Tomcat 8 Federal #001 (Site) (**Figure 1 in Appendix A**). Based on laboratory analytical results, Devon proposes this SCR, which summarizes initial response efforts and details remediation objectives to rectify environmental impacts.

SITE BACKGROUND

On August 4, 2016, a cow appeared to have damaged a ¼-inch nipple on a flowline that caused approximately 6 barrels (bbls) of produced water to be released onto the well pad. The resulting release area is hereafter referred to as the Area of Concern (AOC). A vacuum truck was immediately dispatched and recovered approximately 5 bbls. Devon immediately notified the New Mexico Oil and Conservation Division (NMOCD) via email on August 4, 2016, and reported the release on a Corrective Action Form C-141 (Form C-141), which was received by the NMOCD August 12, 2016, and was assigned Incident Number nKL1622549584. The pad has since been plugged, abandoned, and reclaimed in 2017.

A Characterization Variance Request (CVR) proposing to remediate to Table I depth to groundwater (DTW) standards of 51-100 feet below ground surface (bgs), based on recent, regional DTW data, was submitted by Etech on April 2, 2025, and approved by the NMOCD the same day.

SITE CHARACTERIZATION

As previously described in the CVR, the Site was characterized 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) considering depth to ground water 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 well records are included in **Appendix B**.

Based on the CVR previously approved by the NMOCD, the following closure criteria was applied:

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria [†]
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-Diesel Range Organics (DRO)	EPA 8015 M/D	1,000 mg/kg
Benzene	EPA 8021B/8260B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8260B/8260B	50 mg/kg

[†]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

From March to April 2025, Etech evaluated the Site and mapped the approximate AOC via handheld Global Positioning System (GPS) based on the information provided in the Form C-141. Twelve delineation boreholes (BH01 through BH12) were advanced via hand auger within and around the AOC, which were driven by field screening soil for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach® chloride QuanTab® test strips. A minimum of two soil samples were collected from each delineation soil sampling location, representing the highest observed field screening concentration(s) and the greatest depth. Field screening results and soil observations are included on soil sampling logs 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 surrounding the AOC and assisting with lateral delineation (BH05, BH06 and BH08 through BH12) were compliant with the Site Closure Criteria and/or reclamation standard. Additionally, BTEX concentrations were below the Site Closure Criteria for all delineation soil samples.

Laboratory analytical results for soil samples within the AOC indicated that chloride and TPH concentrations exceed the Site Closure Criteria and/or reclamation standard up to 4 feet bgs. Elevated chloride concentrations were characterized by concentrations ranging from 733 mg/kg to 1,300 mg/kg, and elevated TPH concentrations were characterized by concentrations ranging from 138 mg/kg to 4,960 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**.

PROPOSED REMEDIATION WORK PLAN

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

- The horizontal periphery of the AOC has been sufficiently defined, and
- Residual impacts have been identified within the AOC up to 4 feet bgs.

Based on the conclusions drawn above, Devon proposes to the following corrective actions.:

- Excavation(s) will be advanced laterally and vertically until the Site Closure Criteria and/or reclamation standard is met. Based on current delineation soil sampling results, a minimum of 36

cubic yards (243 square feet up to 4 feet bgs) will be excavated in proximity to BH01, BH03, and BH07 respectively. The proposed excavation extents may be referenced on **Figure 3** in **Appendix A**.

- Impacted soil will be transported to a nearby landfill facility for disposal under approved Devon waste manifests.
- Following the completion of excavation activities, 5-point composite confirmation soil samples will be collected from the excavation floor and sidewalls at a frequency not to exceed 200 square feet per soil sample. Confirmation soil samples will be handled and analyzed for COCs by an accredited laboratory as previously described.
- Upon receipt of confirmation soil sample laboratory analytical results indicating compliance with the applicable Site Closure Criteria, Devon will backfill the excavation(s) with clean, locally sourced soil and restored to "as close to its original state as possible". The total disturbed area will be reseeded with the appropriate BLM seed mix according to BLM guidelines.

PROPOSED SCHEDULE

Upon notice of NMOCD approval of this SCRP, Devon will begin the proposed remediation activities as outlined above within 90 days. Devon believes this SCRP meets the requirements set forth in NMAC 19.15.29.13 and to be protective of human health, the environment, and groundwater. As such, Devon respectfully requests to proceed with the proposed remediation outline.

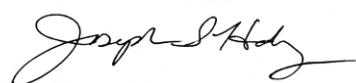
If you have any questions or comments, please do not hesitate to contact Erick Hererra at (432) 305-6416 or erick@etechenv.com or Joseph S. Hernandez at (432) 305-6413 or joseph@etechenv.com. **Appendix G** provides correspondence and email notification receipts associated with the subject release. The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

Sincerely,

Etech Environmental and Safety Solutions, Inc.



Erick Hererra
Project Geologist



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

Figure 2: Delineation Soil Sample Locations

Figure 3: Proposed Excavation Area

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

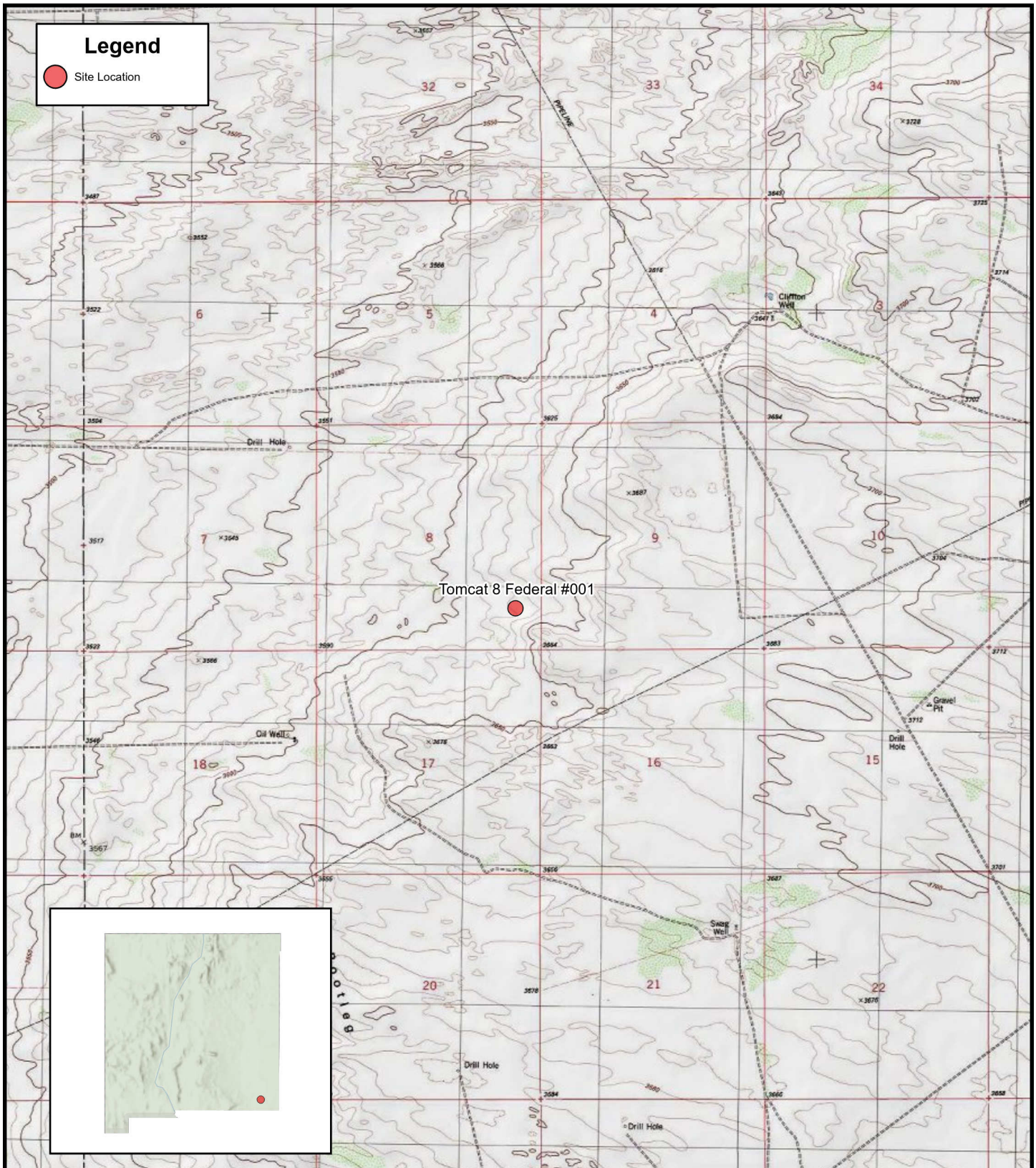


FIGURE 1

Site Location Map

Devon Energy Production Company, LP
Tomcat 8 Federal #001
Unit P Sec 08 T23S R32E
Lea County, New Mexico



0 2,000 4,000 Feet

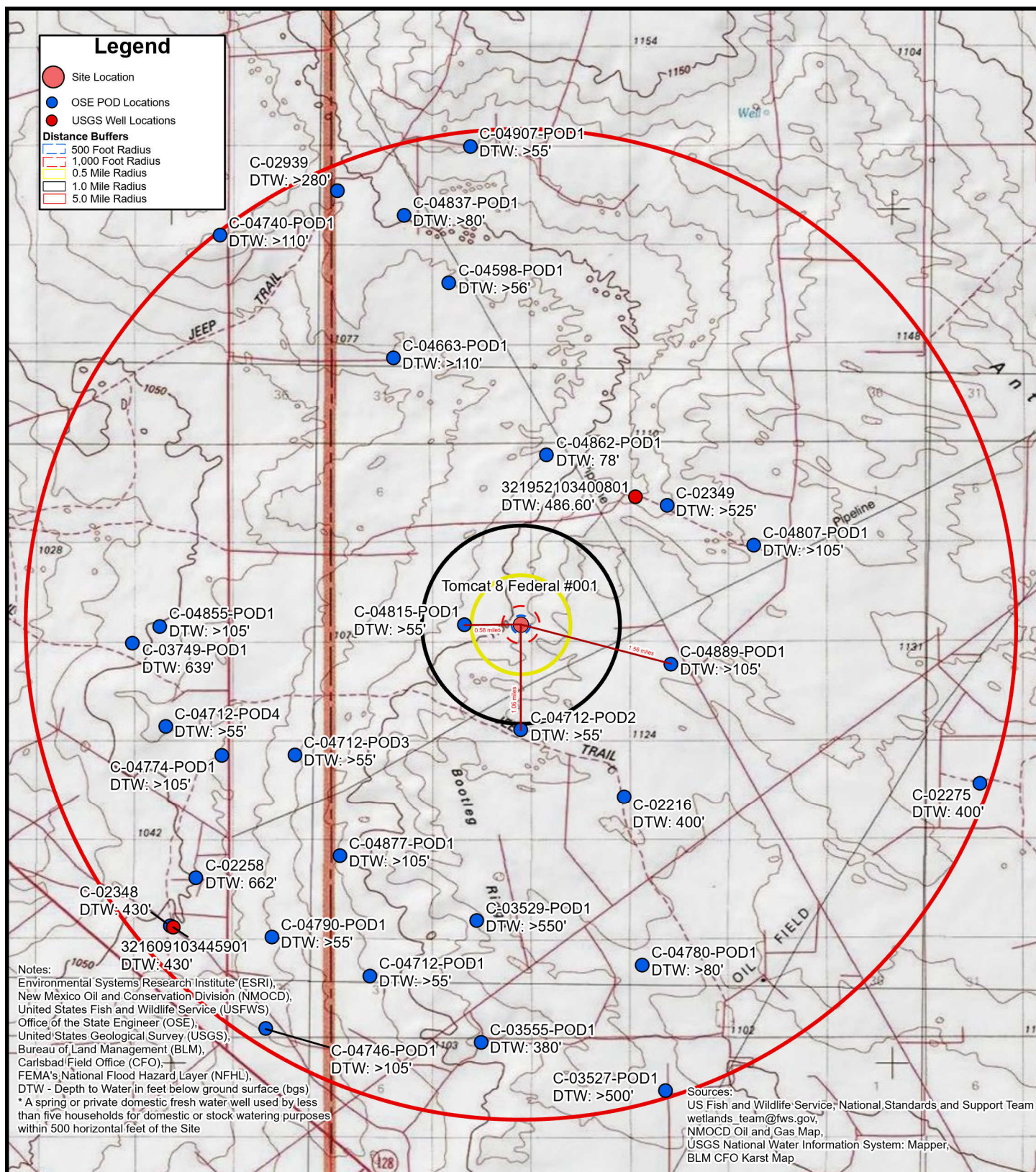
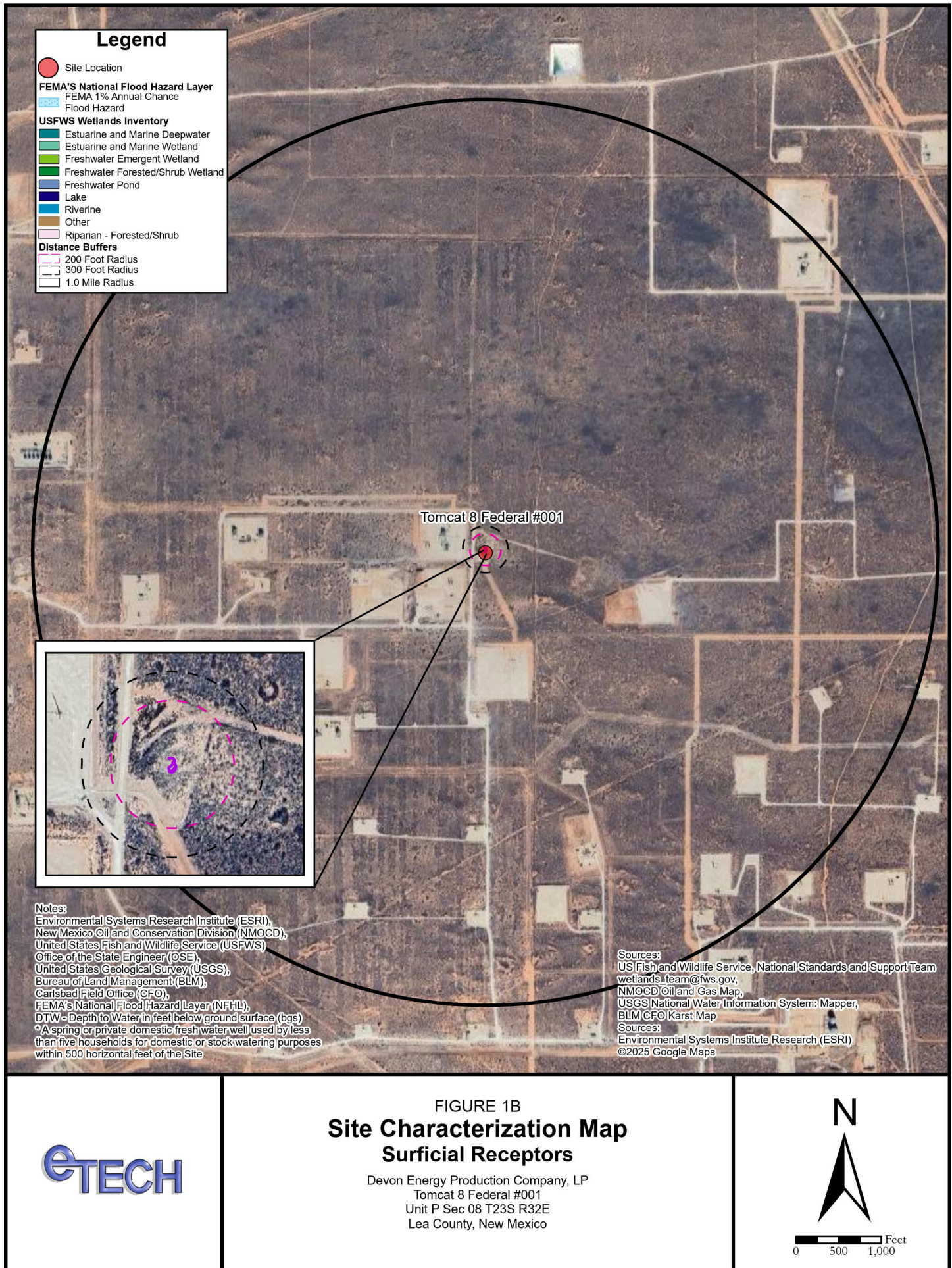


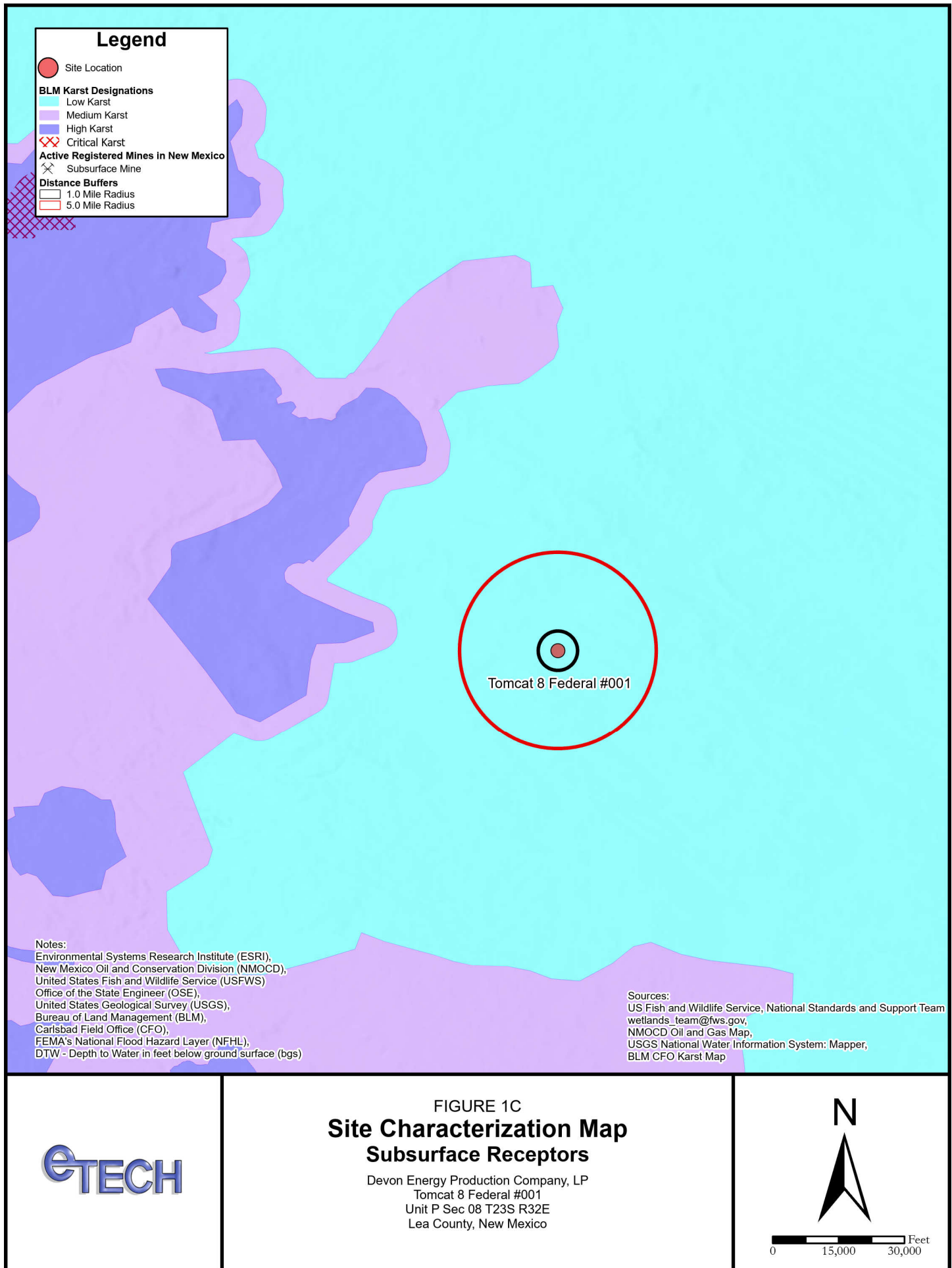
FIGURE 1A
**Site Characterization Map
 Groundwater**

Devon Energy Production Company, LP
 Tomcat 8 Federal #001
 Unit P Sec 08 T23S R32E
 Lea County, New Mexico



0 4,500 9,000 Feet





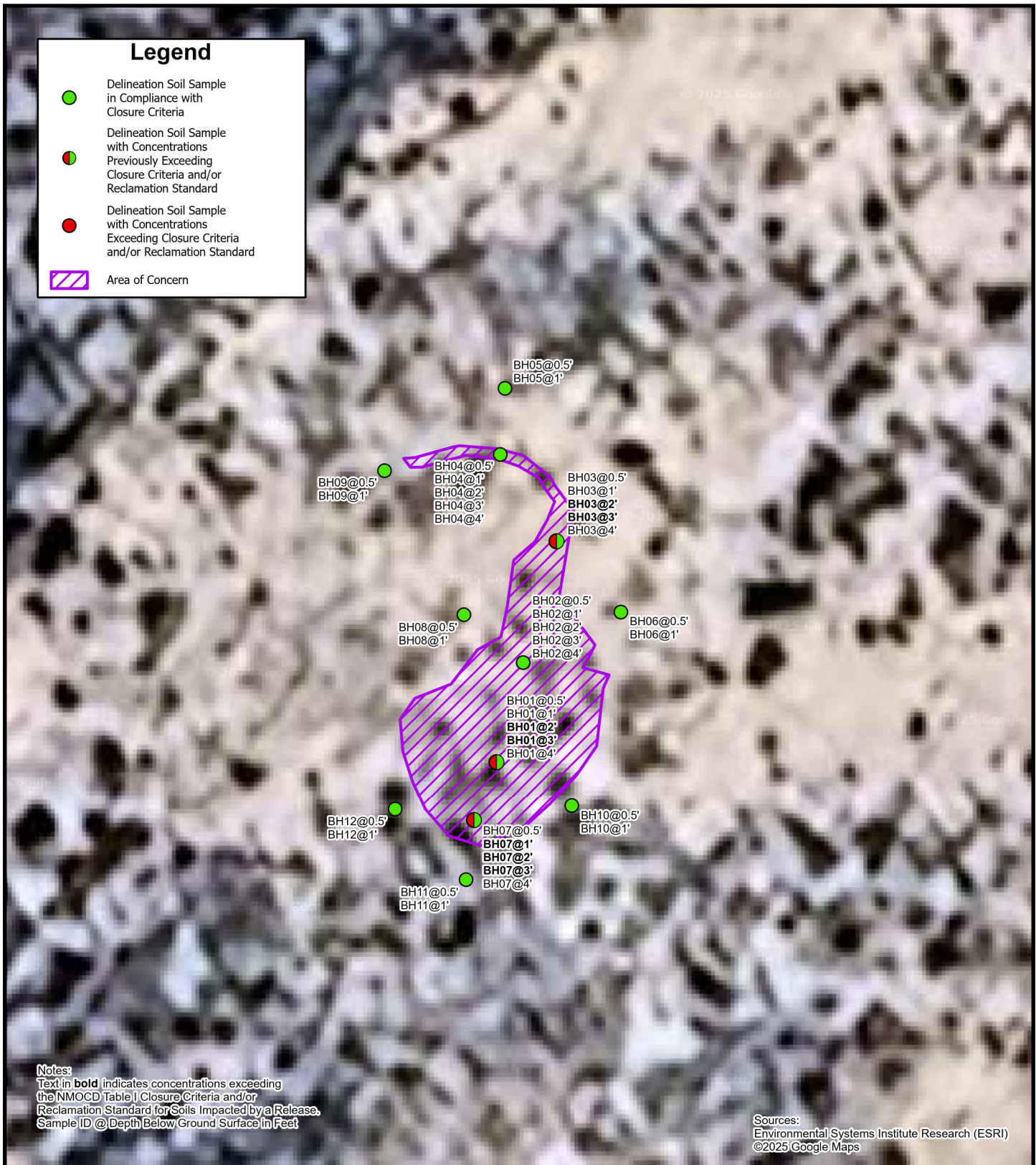
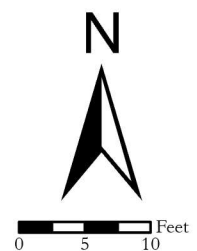
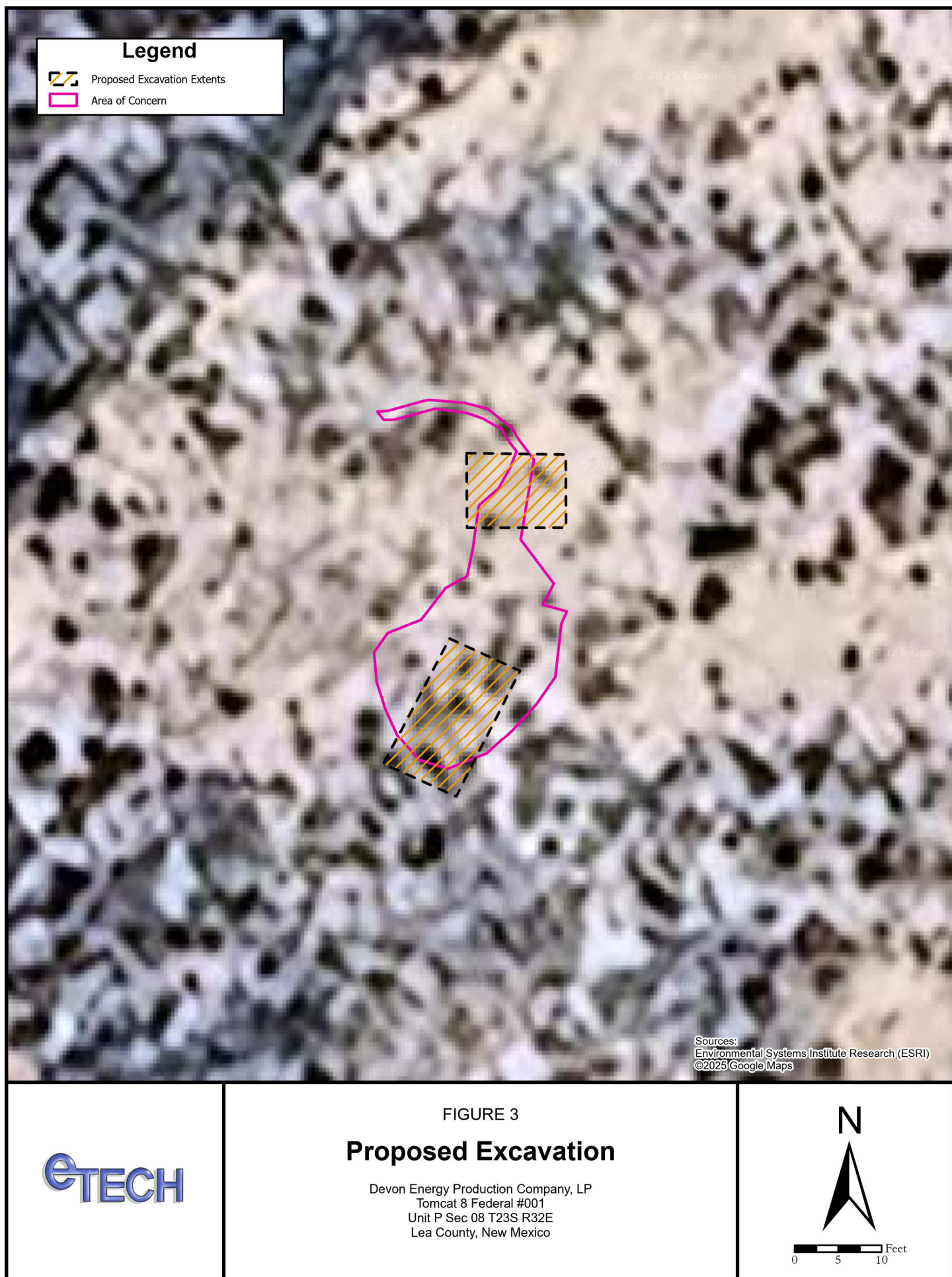


FIGURE 2

Delineation Soil Sample Locations

Devon Energy Production Company, LP
Tomcat 8 Federal #001
Unit P Sec 08 T23S R32E
Lea County, New Mexico





APPENDIX B

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-04815 POD 1		WELL TAG ID NO.		OSE FILE NO(S) C-4815-POD1			
	WELL OWNER NAME(S) Devon Energy Resources				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 205 E. Bender Road #150				CITY Hobbs	STATE NM	ZIP 88240	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 18	SECONDS 51.8	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103	41	59.4	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1833		NAME OF LICENSED DRILLER Jason Maley			NAME OF WELL DRILLING COMPANY Vision Resources		
	DRILLING STARTED 4-16-24		DRILLING ENDED 4-16-24		DEPTH OF COMPLETED WELL (FT) 55'	BORE HOLE DEPTH (FT) 55'	DEPTH WATER FIRST ENCOUNTERED (FT) N/A	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) 0'	DATE STATIC MEASURED 4-16-24	
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:						CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>	
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	45	6"	PVC 2" SCH40	Thread	2"	SCH40	N/A
	45	55	6"	PVC 2" SCH40	Thread	2"	SCH40	.02
<div style="text-align: right;">OSE DTI APR 25 2024 PM 2:37</div>								
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
				None pulled and plugged				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. C-04815	POD NO. 1	TRN NO. 757440
LOCATION 235.32E.08.143	WELL TAG ID NO.	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

5. TEST; RIG SUPERVISION

6. SIGNATURE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

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: 757440
File Nbr: 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.

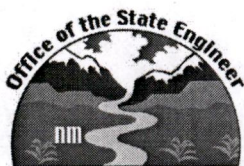
If you have any questions, please feel free to contact us.

Sincerely,

A handwritten signature in black ink, appearing to read "Rodolfo Chavez".

Rodolfo Chavez
(575) 622-6521

drywell



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: ~~CP-04815~~ C-04815
 Well owner: Devon Energy Resources Phone No.: _____
 Mailing address: 205 E Bender Road#150
 City: Hobbs State: NM Zip code: 88240

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Vision Resources
- 2) New Mexico Well Driller License No.: 1833 Expiration Date: 10-7-25
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Jason Maley
- 4) Date well plugging began: 4-22-24 Date well plugging concluded: 4-22-24
- 5) GPS Well Location: Latitude: 32 deg, 18 min, 51.8 sec
 Longitude: -103 deg, 41 min, 59.4 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 55 ft below ground level (bgl),
 by the following manner: Tape
- 7) Static water level measured at initiation of plugging: Dry ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 03-07-2024
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

USE DIT APR 25 2024 PM2:37

- For each interval plugged, describe within the following columns:**

05E DII APR 25 2024 PM2:37

MULTIPLY		BY	AND OBTAIN
cubic feet	x	7.4805	= gallons
cubic yards	x	201.97	= gallons

I, Jason Maley, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Date _____



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-4712 <u>POD 2</u>		WELL TAG ID NO.		OSE FILE NO(S). <u>C-4712</u>		
	WELL OWNER NAME(S) <u>Harvard Petroleum Company</u>				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS <u>P.O. Box 936</u>				CITY <u>Roswell</u>	STATE <u>NM</u>	
					ZIP <u>88202</u>		
WELL LOCATION (FROM GPS)	DEGREES		MINUTES	SECONDS			
	LATITUDE	<u>32</u>	<u>17</u>	<u>56.4</u>	N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND	
	LONGITUDE	<u>-103</u>	<u>41</u>	<u>24.2</u>	W	* DATUM REQUIRED: WGS 84	
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE							
2. DRILLING & CASING INFORMATION	LICENSE NO. <u>1833</u>		NAME OF LICENSED DRILLER <u>Jason Maley</u>		NAME OF WELL DRILLING COMPANY <u>Vision Resources</u>		
	DRILLING STARTED <u>3-9-2023</u>	DRILLING ENDED <u>3-9-2023</u>	DEPTH OF COMPLETED WELL (FT) <u>55</u>	BORE HOLE DEPTH (FT) <u>55</u>	DEPTH WATER FIRST ENCOUNTERED (FT) <u>Dry</u>		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) <u>Dry</u>		
	DATE STATIC MEASURED <u>Dry</u>						
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:						
	CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>						
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)
	FROM	TO					
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE- RANGE BY INTERVAL *(if using Centralizers for Artesian wells- indicate the spacing below)	AMOUNT (cubic feet)	METHOD OF PLACEMENT	
	FROM	TO					

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. <u>C-4712-POD 2</u>	POD NO. <u>2</u>	TRN NO. <u>743189</u>
LOCATION <u>Mow 23.32.17.444</u>	WELL TAG ID NO. <u> </u>	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

5 TEST: RIG SUPERVISION

SIGNATURE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)	
FILE NO.	C-4712-POD 2	POD NO.	2
LOCATION	Neon 23.32.17.444	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 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,

A handwritten signature in cursive script, appearing to read "Maret Thompson".

Maret Thompson
(575) 622-6521

drywell



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

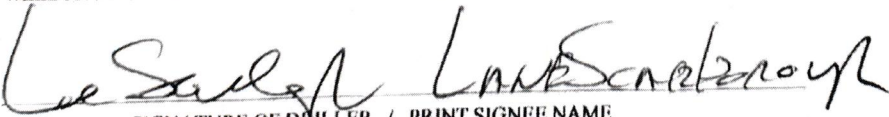
1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1		WELL TAG ID NO. N/A		OSE FILE NO(S). C-04889 POD1			
	WELL OWNER NAME(S) Devon Energy Production Company, LP				PHONE (OPTIONAL) 575-689-7597			
	WELL OWNER MAILING ADDRESS 5315 Buena Vista Dr				CITY Carlsbad	STATE NM	ZIP 88220	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 18	SECONDS 30.96 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
		LONGITUDE 103	39	50.45 W				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Unit C, Section 15, Township 23S, Range 32E, Lea County, NM								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD1188		NAME OF LICENSED DRILLER John Scarborough			NAME OF WELL DRILLING COMPANY John Scarborough Drilling Inc		
	DRILLING STARTED 10/21/2024	DRILLING ENDED 10/21/2024	DEPTH OF COMPLETED WELL (FT) 105	BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES – SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER – SPECIFY:							
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0 105		5.00	Soil Boring				
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
				N/A				

OSE DII ROSWELL NM
16 DEC '24 4:10:29

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO. C-04889	POD NO. 1	TRN NO. 768314
LOCATION 23S. 32E. 15. 421	WELL TAG ID NO. —	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		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)
	FROM	TO				
	0	10	10	Sand with Silt, Red to Medium Brown, Coarse to Very Fine	Y ✓ N	
	10	20	10	Sand with Gravel, Light Brown to Tan, Medium to Coarse with Gravel	Y ✓ N	
	20	30	10	Gravel with Sand, White to Tan, Small to Large with Medium to Coarse	Y ✓ N	
	30	40	10	Sand with Gravel, Medium to Light Brown, Coarse to Fine with Gravel	Y ✓ N	
	40	50	10	Sand with Gravel, Light Brown to Tan, Coarse to Fine with Gravel	Y ✓ N	
	50	60	10	Silty Sand, Light Brown to Red, Coarse to Very Fine	Y ✓ N	
	60	70	10	Inter-bedded Sandstone and Sand, Medium Brown, Medium to Coarse	Y ✓ N	
	70	80	10	Clayey Sand, Dark to Medium Brown, Medium to Fine Grained	Y ✓ N	
	80	90	10	Clayey Sand, Dark to Medium Brown, Medium to Fine Grained	Y ✓ N	
	90	100	10	Clayey Sand, Dark Red to Medium Brown, Medium to Fine Grained	Y ✓ N	
	100	105	5	Silty Sand, Light Brown to Tan, Coarse to Fine Grained	Y ✓ N	
	105	105	0	Silty Sand, Tan to Green, Coarse to Fine Grained	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	
<input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:						
5. TEST; RIG SUPERVISION	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.				
	MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to 10 ft below ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface.					
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Scott Scarborough					
6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.					
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME				12/13/2024 DATE	

FOR OSE INTERNAL USE

FILE NO. C-04889

235. 32E. 15. 421

POD NO. 1

WR-20 WELL RECORD & LOG (Version 04/30/2019)

TRN NO. 768314



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)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	(meters)	(In feet)		
													Distance	Well Depth	Depth Water	Water Column
C 04815 POD1		CUB	LE	NW	SE	SW	08	23S	32E	622391.9	3576025.7	●	922	55		
C 04712 POD2		CUB	LE	SE	SE	SE	17	23S	32E	623331.9	3574331.5	●	1704	55		
C 04889 POD1		CUB	LE	SE	NE	NW	15	23S	32E	625771.5	3575426.3	●	2532	105		
C 04862 POD1		CUB	LE	NE	NW	NW	04	23S	32E	623697.0	3578798.5	●	2788	105	78	27
C 02349		CUB	ED	SE	NE	SW	03	23S	32E	625677.9	3578003.4	●	3075	525		
C 02216		CUB	LE	NE	NE	SE	21	23S	32E	625035.0	3573261.0 *	●	3265	585	400	185
C 03851 POD1		CUB	LE	SW	SW	SE	20	23S	32E	622879.6	3572660.0	●	3403	1392	713	679
C 04704 POD1		CUB	ED	SW	NE	NE	13	23S	31E	619854.4	3575363.5	●	3524			
C 04807 POD1		CUB	LE	NW	NE	NW	11	23S	32E	627099.7	3577375.0	●	4015	105		
C 04712 POD3		CUB	ED	SE	NW	NE	24	23S	31E	619650.7	3573877.9	●	4251	55		
C 04726 POD1		CUB	ED	NW	NW	SE	01	23S	31E	619538.3	3578821.3	●	4691			
C 04877 POD1		CUB	LE	SE	NW	NW	30	23S	32E	620404.8	3572240.0	●	4782	105		
C 04663 POD1		CUB	LE	SW	NW	NE	31	22S	32E	621181.3	3580341.4	●	4804	110		
C 03529 POD1		C	LE	NE	SE	SW	29	23S	32E	622651.2	3571212.5	●	4868	550		
C 04774 POD1		CUB	ED	SE	NE	NE	23	23S	31E	618456.0	3573856.4	●	5324	105		
C 04598 POD1		CUB	LE	NE	SW	NW	29	22S	32E	622069.2	3581570.2	●	5672	56		
C 04780 POD1		CUB	LE	NW	SW	NW	34	23S	32E	625363.6	3570521.7	●	5882	80		
C 04855 POD1		CUB	ED	NE	SW	SW	11	23S	31E	617417.6	3575936.7	●	5897	105		
C 04712 POD4		CUB	ED	NW	SE	SW	14	23S	31E	617535.4	3574316.2	●	6029	55		
C 04712 POD1		CUB	LE	NW	SE	NW	31	23S	32E	620917.2	3570289.2	●	6226	55		
C 02777		CUB	ED	SE	SE	SE	10	23S	31E	616973.8	3575662.1	●	6351	890		
C 03749 POD1		CUB	ED		NE	NE	15	23S	31E	616973.8	3575662.1	●	6351	865	639	226
C 04790 POD1		CUB	ED	SE	SE	SW	25	23S	31E	619309.4	3570904.8	●	6508	55		
C 02258		C	ED		SW	NE	26	23S	31E	618055.0	3571853.0 *	●	6719	662		
C 02756		CUB	ED	SW	SE	SE	26	22S	31E	618250.0	3580606.0 *	●	6821	1998		
C 03152		CUB	ED	SW	SE	SE	26	22S	31E	618250.0	3580606.0 *	●	6821	938		
C 03555 POD1		C	LE	NE	NE	NW	05	24S	32E	622748.5	3569233.6	●	6825	600	380	220
C 04837 POD1		CUB	LE	SE	NW	SE	19	22S	32E	621328.1	3582655.6	●	6911	80		
C 02348		C	ED	NW	SE	SW	26	23S	31E	617647.5	3571068.0	●	7535	700	430	270
C 02939		C	LE	SW	SW	NW	19	22S	32E	620234.0	3583042.0 *	●	7653	280		
C 03138		CUB	ED	SW	SW	SW	26	22S	31E	617043.0	3580591.0 *	●	7750	750		
C 04746 POD1		CUB	ED	SW	SE	SW	36	23S	31E	619225.7	3569417.8	●	7779	105		
C 04907 POD1		CUB	LA	SW	SW	SE	17	22S	32E	622396.4	3583785.0	●	7803	55		
C 02773		CUB	ED	SE	NW	SW	03	23S	31E	615668.0	3577762.0 *	●	7838	880		
C 04709 POD1		CUB	ED	SW	NW	NW	15	23S	31E	615508.8	3575262.4	●	7843			
C 02275		CUB	LE	SW	SW	NE	19	23S	33E	630843.0	3573557.0 *	●	7926	650	400	250
C 03527 POD1		C	LE	NW	NE	SW	03	24S	32E	625769.7	3568487.2	●	7938	500		
C 04740 POD1		CUB	ED	SW	SE	SE	23	22S	31E	618327.8	3582299.2	●	8005	110		

Average Depth to Water: **434 feet**

Water Column/Average Depth to Water

March 12, 2025 01:25 PM MST

Page 1 of 2

Maximum Depth: **713 feet**

Record Count: 38

Basin/County Search:

Basin: C

UTM Filters (in meters):

Easting: 623314

Northing: 3576036

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.

APPENDIX C

Soil Sampling Logs



Sample Name: BH01 Date: 03/11/2025

Site Name: Tomcat 8 Federal #001

Incident Number: nKL1622549584

Job Number: 19305

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: HB

Method: Hand Auger

Site Coordinates: 32.314442, -103.690032

Hole Diameter: 3.75 inches

Total Depth: 4 feet

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	548	7.4	No	BH01	0.5	0.5	SM	(0-0.5) SAND with silt, dry, brown, poorly graded with silt, very fine to fine grain, no cohesiveness, trace organic, no stain, no odor. (0.5-2') CALICHE, dry, tan, well graded with silt, very fine to coarse grain, no cohesiveness, no stain, no odor. (2-4') SAND with silt, dry, brown, poorly graded with silt, to fine grain, increase in cohesiveness, no stain, no odor.
Dry	772	4.1	No	BH01	1	1	CCHE	
Dry	412	2.4	No	BH01	2	2		
Dry	1,416	1.5	No	BH01	3	3	SP-SM	
Dry	1,896	0.7	No	BH01	4	4		

Total Depth



Sample Name: BH02 Date: 03/12/2025

Site Name: Tomcat 8 Federal #001

Incident Number: nKL1622549584

Job Number: 19305

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: HB

Method: Hand Auger

Site Coordinates: 32.314471, -103.690023


Hole Diameter: 3.75 inches

Total Depth: 4 feet

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	<116	5.7	No	BH02	0.5	0.5	SM	(0-0.5') SAND, dry, brown, poorly graded with silt, very fine to fine grain, no cohesiveness, trace organic, no stain, no odor. (0.5-2') CALICHE, dry, tan, well graded with silt, very fine to coarse grain, no cohesiveness, no stain, no odor. (2-4') SAND, dry, tan, poorly graded with silt, very fine to fine grain, increase in cohesiveness, no stain, no odor.
Dry	<116	0.4	No	BH02	1	1	CCHE	
Dry	<116	0.4	No	BH02	2	2		
Dry	<116	0.4	No	BH02	3	3	SP-SM	
Dry	<116	0.3	No	BH02	4	4		

Total Depth

								Sample Name: BH03		Date: 03/12/2025	
								Site Name: Tomcat 8 Federal #001			
								Incident Number: nKL1622549584			
								Job Number: 19305			
LITHOLOGIC / SOIL SAMPLING LOG								Logged By: HB		Method: Hand Auger	
Site Coordinates: 32.314506, -103.690012								Hole Diameter: 3.75 inches		Total Depth: 4 feet	
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	<116	0.4	No	BH03	0.5	0.5	CCHE	(0-2') CALICHE, dry, tan, well graded with silt, very fine to coarse grain, no cohesiveness, trace organic, no stain, no odor.			
Dry	140	1.1	No	BH03	1	1	SP-SM	(2-4') SAND, dry, tan, poorly graded with silt, very fine to fine grain, increase in cohesiveness, no stain, no odor. @ 3' Color change to brown.			
Dry	500	0.5	No	BH03	2	2					
Dry	836	0.5	No	BH03	3	3					
Dry	1,416	0.8	No	BH03	4	4					
Total Depth											



Sample Name: BH04

Date: 03/12/2025

Site Name: Tomcat 8 Federal #001

Incident Number: nKL1622549584

Job Number: 19305

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: HB

Method: Hand Auger

Site Coordinates: 32.314531, -103.690031

Hole Diameter: 3.75 inches

Total Depth: 4 feet

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	<116	0.8	No	BH04	0.5	0.5	SM	(0-4') SAND, dry, tan, poorly graded with silt, very fine to fine grain, no cohesiveness, trace organic, no stain, no odor.
Dry	<116	0.8	No	BH04	1	1		
Dry	196	0.4	No	BH04	2	2		@ 2' Increase in cohesiveness from none to low.
Dry	412	0.4	No	BH04	3	3		
Dry	412	0.5	No	BH04	4	4		

Total Depth



Sample Name: BH05

Date: 03/12/2025

Site Name: Tomcat 8 Federal #001

Incident Number: nKL1622549584

Job Number: 19305

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: HB

Method: Hand Auger

Site Coordinates: 32.314550, -103.690029

Hole Diameter: 3.75 inches

Total Depth: 1 foot

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	<116	0.3	No	BH05	0.5	0.5	SM	(0-0.5') SAND, dry, brown, poorly graded with silt, very fine to fine grain, no cohesiveness, trace organic, no stain, no odor.
Dry	<116	0.5	No	BH05	1	1	CCHE	(0.5-1') CALICHE, dry, tan, well graded with silt, very fine to coarse grain, no cohesiveness, no stain, no odor.

Total Depth



Sample Name: BH06

Date: 03/12/2025

Site Name: Tomcat 8 Federal #001

Incident Number: nKL1622549584

Job Number: 19305

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: HB

Method: Hand Auger

Site Coordinates: 32.314485, -103.689990

Hole Diameter: 3.75 inches

Total Depth: 1 foot

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	<116	0.4	No	BH06	0.5	0.5	SM	(0-1') SAND, dry, brown, poorly graded with silt, very fine to fine grain, no cohesiveness, trace organic, no stain, no odor.
Dry	<116	0.3	No	BH06	1	1		

Total Depth



Sample Name: BH07

Date: 03/12/2025, 04/24/2025

Site Name: Tomcat 8 Federal #001

Incident Number: nKL1622549584

Job Number: 19305

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: HB

Method: Hand Auger

Site Coordinates: 32.314425, -103.690040

Hole Diameter: 3.75 inches

Total Depth: 4 feet

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	296	0.4	No	BH07	0.5	0.5	CCHE	(0.5-1') CALICHE, dry, tan, well graded with silt, very fine to coarse grain, no cohesiveness, trace organic, no stain, no odor.
Dry	196	0.5	No	BH07	1	1	SP-	(0.5-1') SAND, dry, brown, poorly graded with silt, very fine to fine grain, no cohesiveness, no stain, no odor.
Dry	548	1.2	No	BH07	2	2		@ 2' Color change to reddish brown.
Dry	836	0.8	No	BH07	3	3		@ 3' Increase in cohesiveness from none to low, increase in silt.
Dry	908	0.8	No	BH07	4	4		@ 4' Decrease in silt.

Total Depth



Sample Name: BH08

Date: 03/12/2025

Site Name: Tomcat 8 Federal #001

Incident Number: nKL1622549584

Job Number: 19305

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: HB

Method: Hand Auger

Site Coordinates: 32.314485, -103.690043

Hole Diameter: 3.75 inches

Total Depth: 1 foot

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	228	0.3	No	BH08	0.5	0.5	SM	(0-1') SAND, dry, brown, poorly graded with silt, very fine to fine grain, no cohesiveness, trace organic, no stain, no odor.
Dry	196	0.4	No	BH08	1	1		

Total Depth



Sample Name: BH09

Date: 03/12/2025

Site Name: Tomcat 8 Federal #001

Incident Number: nKL1622549584

Job Number: 19305

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: HB

Method: Hand Auger

Site Coordinates: 32.314526, -103.690071

Hole Diameter: 3.75 inches

Total Depth: 1 foot

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	<116	0.8	No	BH09	0.5	0.5	SM	(0-1') SAND, dry, brown, poorly graded with silt, very fine to fine grain, no cohesiveness, trace organic, no stain, no odor.
Dry	<116	0.7	No	BH09	1	1		

Total Depth



Sample Name: BH10 Date: 04/24/2025
 Site Name: Tomcat 8 Federal #001
 Incident Number: nKL1622549584
 Job Number: 19305

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: HB Method: Hand Auger

Site Coordinates: 32.314429, -103.690006

Hole Diameter: 3.75 inches Total Depth: 1 foot

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	228	0.5	No	BH10	0.5	0.5	SM	(0-1') SAND, dry, reddish brown, poorly graded with silt, very fine to fine grain, no cohesiveness, trace organic, no stain, no odor.
Dry	140	0.4	No	BH10	1	1		

Total Depth



Sample Name: BH11

Date: 04/24/2025

Site Name: Tomcat 8 Federal #001

Incident Number: nKL1622549584

Job Number: 19305

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: HB

Method: Hand Auger

Site Coordinates: 32.314408, -103.690043

Hole Diameter: 3.75 inches

Total Depth: 1 foot

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	228	0.0	No	BH11	0.5	0.5	SM	(0-1') SAND, dry, reddish brown, poorly graded with silt, very fine to fine grain, no cohesiveness, trace organic, no stain, no odor.
Dry	228	0.0	No	BH11	1	1		@ 1' Change to CALICHE, tannish brown, fine to coarse grain, no cohesiveness, no organic, no stain, no odor.

Total Depth



Sample Name: BH12

Date: 04/24/2025

Site Name: Tomcat 8 Federal #001

Incident Number: nKL1622549584

Job Number: 19305

LITHOLOGIC / SOIL SAMPLING LOG

Logged By: HB

Method: Hand Auger

Site Coordinates: 32.314428, -103.690067

Hole Diameter: 3.75 inches

Total Depth: 1 foot

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	<116	0.2	No	BH12	0.5	0.5	SM	(0-1') SAND, dry, reddish brown, poorly graded with silt, very fine to fine grain, no cohesiveness, trace organic, no stain, no odor.
Dry	228	0.0	No	BH12	1	1		@ 1' Change to CALICHE, tannish brown, fine to coarse grain, no organic, no stain, no odor.

Total Depth

APPENDIX D

Photographic Log

**PHOTOGRAPHIC LOG****Devon Production Company, LP****Tomcat 8 Federal #001****Incident Number: nKL1622549584**

Position: +032.315088° / -103.690098° (±11.6ft)
 Altitude: 3638ft (±9.8ft)
 Datum: WGS-84
 Azimuth/Bearing: 138° S42E 2453mils True (±11°)
 Elevation Angle: +03.7°
 Horizon Angle: +00.6°
 Zoom: 1.0X
 Tomcat 8

**Photograph 1****Date: 03/05/2025**

Description: Southeastern view of site during initial site assessment activities.

Position: +032.314453° / -103.690057° (±45.9ft)
 Altitude: 3627ft (±9.8ft)
 Datum: WGS-84
 Azimuth/Bearing: 080° N80E 1422mils True (±12°)
 Elevation Angle: -26.3°
 Horizon Angle: +01.4°
 Zoom: 0.5X
 Tomcat 8

**Photograph 2****Date: 03/11/2025**

Description: Northeastern view of delineation activities, near BH01.

Position: +032.314486° / -103.690002° (±17.4ft)
 Altitude: 3626ft (±14.4ft)
 Datum: WGS-84
 Azimuth/Bearing: 128° S52E 2276mils True (±12°)
 Elevation Angle: +25.6°
 Horizon Angle: +00.5°
 Zoom: 0.5X
 Tomcat 8

**Photograph 3****Date: 03/12/2025**

Description: Southeastern view of delineation activities, near BH06.

Position: +032.314402° / -103.689999° (±11.7ft)
 Altitude: 3620ft (±9.8ft)
 Datum: WGS-84
 Azimuth/Bearing: 033° N33E 0587mils True (±12°)
 Elevation Angle: -15.6°
 Horizon Angle: +02.5°
 Zoom: 0.5X
 Tomcat 8

**Photograph 4****Date: 04/24/2025**

Description: Northeastern view of delineation activities, near BH11.

APPENDIX E

Tables



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
Devon Energy Production Co. LP
Tomcat 8 Federal #001
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 nKL1622549584										
BH01	03/11/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	498 [†]
BH01	03/11/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	490 [†]
BH01	03/11/2025	2	<0.0250	<0.0500	<20.0	2,270	2,690	2,270	4,960	456 [†]
BH01	03/11/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,300[†]
BH01	03/11/2025	4	<0.0250	<0.0500	<20.0	43.0	196	43.0	239	1,860
BH02	03/12/2025	0.5	<0.0250	0.0432	<20.0	<25.0	<50.0	<25.0	<50.0	29.6 [†]
BH02	03/12/2025	1	<0.0250	<0.0500	<20.0	25.9	<50.0	25.9	<50.0	<20.0 [†]
BH02	03/12/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0 [†]
BH02	03/12/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0 [†]
BH02	03/12/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	94.7
BH03	03/12/2025	0.5	<0.0250	<0.0500	<20.0	42.6	<50.0	42.6	<50.0	191 [†]
BH03	03/12/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	333 [†]
BH03	03/12/2025	2	<0.0250	<0.0500	<20.0	138	222	138	360	495 [†]
BH03	03/12/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	733[†]
BH03	03/12/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	1,260
BH04	03/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0 [†]
BH04	03/12/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	35.0 [†]
BH04	03/12/2025	2	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	38.0 [†]
BH04	03/12/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	305 [†]
BH04	03/12/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	449
BH05	03/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0 [†]
BH05	03/12/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0 [†]
BH06	03/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0 [†]
BH06	03/12/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0 [†]



Table 1
SOIL SAMPLE ANALYTICAL RESULTS
Devon Energy Production Co. LP
Tomcat 8 Federal #001
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
BH07	03/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0 [†]
BH07	03/12/2025	1	<0.0250	<0.0500	<20.0	44.9	93.3	44.9	138	278 [†]
BH07	04/24/2025	2	<0.0250	<0.0500	<20.0	408	825	1,230	1,230	551 [†]
BH07	04/24/2025	3	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	915[†]
BH07	04/24/2025	4	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	533
BH08	03/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	232 [†]
BH08	03/12/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	252 [†]
BH09	03/12/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	347 [†]
BH09	03/12/2025	1	<0.0250	0.0371	<20.0	<25.0	<50.0	<25.0	<50.0	<20.0 [†]
BH10	04/24/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	254 [†]
BH10	04/24/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	120 [†]
BH11	04/24/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	192 [†]
BH11	04/24/2025	1	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	259 [†]
BH12	04/24/2025	0.5	<0.0250	<0.0500	<20.0	<25.0	<50.0	<25.0	<50.0	60.4 [†]
BH12	04/24/2025	1	<0.0250	<0.0500	<20.0	29.0	<50.0	29.0	29.0	308 [†]

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[†] 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

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 8 FEDERAL #001

Work Order: E503077

Job Number: 01058-0007

Received: 3/13/2025

Revision: 2

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/17/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/17/25



Anna Byers
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: TOMCAT 8 FEDERAL #001
Workorder: E503077
Date Received: 3/13/2025 8:00:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/13/2025 8:00:00AM, under the Project Name: TOMCAT 8 FEDERAL #001.

The analytical test results summarized in this report with the Project Name: TOMCAT 8 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 regarding 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
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Cell: 775-287-1762
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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH01 0.5'	5
BH01 1'	6
BH01 2'	7
BH01 4'	8
QC Summary Data	9
QC - Volatile Organics by EPA 8021B	9
QC - Nonhalogenated Organics by EPA 8015D - GRO	10
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

Sample Summary

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	03/17/25 13:14

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 0.5'	E503077-01A	Soil	03/11/25	03/13/25	Glass Jar, 2 oz.
BH01 1'	E503077-02A	Soil	03/11/25	03/13/25	Glass Jar, 2 oz.
BH01 2'	E503077-03A	Soil	03/11/25	03/13/25	Glass Jar, 2 oz.
BH01 4'	E503077-04A	Soil	03/11/25	03/13/25	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: TOMCAT 8 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 3/17/2025 1:14:10PM
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BH01 0.5'

E503077-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2511047	
Benzene	ND	0.0250	1	03/13/25	03/14/25	
Ethylbenzene	ND	0.0250	1	03/13/25	03/14/25	
Toluene	ND	0.0250	1	03/13/25	03/14/25	
o-Xylene	ND	0.0250	1	03/13/25	03/14/25	
p,m-Xylene	ND	0.0500	1	03/13/25	03/14/25	
Total Xylenes	ND	0.0250	1	03/13/25	03/14/25	
Surrogate: 4-Bromochlorobenzene-PID	101 %	70-130		03/13/25	03/14/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2511047	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/25	03/14/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.7 %	70-130		03/13/25	03/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2511049	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/25	03/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/25	03/13/25	
Surrogate: n-Nonane	92.5 %	61-141		03/13/25	03/13/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK		Batch: 2511058	
Chloride	498	20.0	1	03/13/25	03/13/25	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/17/2025 1:14:10PM

BH01 1'

E503077-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2511047	
Benzene	ND	0.0250	1	03/13/25	03/14/25	
Ethylbenzene	ND	0.0250	1	03/13/25	03/14/25	
Toluene	ND	0.0250	1	03/13/25	03/14/25	
o-Xylene	ND	0.0250	1	03/13/25	03/14/25	
p,m-Xylene	ND	0.0500	1	03/13/25	03/14/25	
Total Xylenes	ND	0.0250	1	03/13/25	03/14/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.9 %	70-130		03/13/25	03/14/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2511047	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/25	03/14/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	90.1 %	70-130		03/13/25	03/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2511049	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/13/25	03/13/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/13/25	03/13/25	
<i>Surrogate: n-Nonane</i>	101 %	61-141		03/13/25	03/13/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK		Batch: 2511058	
Chloride	490	20.0	1	03/13/25	03/13/25	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: TOMCAT 8 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 3/17/2025 1:14:10PM
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BH01 2'

E503077-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2511047	
Benzene	ND	0.0250	1	03/13/25	03/14/25	
Ethylbenzene	ND	0.0250	1	03/13/25	03/14/25	
Toluene	ND	0.0250	1	03/13/25	03/14/25	
o-Xylene	ND	0.0250	1	03/13/25	03/14/25	
p,m-Xylene	ND	0.0500	1	03/13/25	03/14/25	
Total Xylenes	ND	0.0250	1	03/13/25	03/14/25	
Surrogate: 4-Bromochlorobenzene-PID	102 %	70-130		03/13/25	03/14/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2511047	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/25	03/14/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.4 %	70-130		03/13/25	03/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2511049	
Diesel Range Organics (C10-C28)	2270	25.0	1	03/13/25	03/13/25	
Oil Range Organics (C28-C36)	2690	50.0	1	03/13/25	03/13/25	
Surrogate: n-Nonane	94.8 %	61-141		03/13/25	03/13/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK		Batch: 2511058	
Chloride	456	20.0	1	03/13/25	03/13/25	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/17/2025 1:14:10PM

BH01 4'

E503077-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2511047	
Benzene	ND	0.0250	1	03/13/25	03/14/25	
Ethylbenzene	ND	0.0250	1	03/13/25	03/14/25	
Toluene	ND	0.0250	1	03/13/25	03/14/25	
o-Xylene	ND	0.0250	1	03/13/25	03/14/25	
p,m-Xylene	ND	0.0500	1	03/13/25	03/14/25	
Total Xylenes	ND	0.0250	1	03/13/25	03/14/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	03/13/25	03/14/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2511047	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/13/25	03/14/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		90.2 %	70-130	03/13/25	03/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2511049	
Diesel Range Organics (C10-C28)	43.0	25.0	1	03/13/25	03/13/25	
Oil Range Organics (C28-C36)	196	50.0	1	03/13/25	03/13/25	
<i>Surrogate: n-Nonane</i>		98.2 %	61-141	03/13/25	03/13/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK		Batch: 2511058	
Chloride	1860	20.0	1	03/13/25	03/13/25	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/17/2025 1:14:10PM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2511047-BLK1)

Prepared: 03/13/25 Analyzed: 03/13/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.15		8.00		102	70-130			

LCS (2511047-BS1)

Prepared: 03/13/25 Analyzed: 03/13/25

Benzene	5.22	0.0250	5.00		104	70-130			
Ethylbenzene	5.04	0.0250	5.00		101	70-130			
Toluene	5.15	0.0250	5.00		103	70-130			
o-Xylene	5.05	0.0250	5.00		101	70-130			
p,m-Xylene	10.2	0.0500	10.0		102	70-130			
Total Xylenes	15.3	0.0250	15.0		102	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.16		8.00		102	70-130			

LCS Dup (2511047-BSD1)

Prepared: 03/13/25 Analyzed: 03/13/25

Benzene	5.27	0.0250	5.00		105	70-130	0.974	20	
Ethylbenzene	5.08	0.0250	5.00		102	70-130	0.787	20	
Toluene	5.20	0.0250	5.00		104	70-130	0.925	20	
o-Xylene	5.10	0.0250	5.00		102	70-130	0.932	20	
p,m-Xylene	10.3	0.0500	10.0		103	70-130	0.891	20	
Total Xylenes	15.4	0.0250	15.0		103	70-130	0.905	20	
Surrogate: 4-Bromochlorobenzene-PID	8.30		8.00		104	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/17/2025 1:14:10PM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2511047-BLK1) Prepared: 03/13/25 Analyzed: 03/13/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.20		8.00		89.9	70-130			

LCS (2511047-BS2) Prepared: 03/13/25 Analyzed: 03/13/25

Gasoline Range Organics (C6-C10)	39.8	20.0	50.0		79.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.23		8.00		90.4	70-130			

LCS Dup (2511047-BSD2) Prepared: 03/13/25 Analyzed: 03/14/25

Gasoline Range Organics (C6-C10)	41.2	20.0	50.0		82.4	70-130	3.45	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.30		8.00		91.2	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/17/2025 1:14:10PM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2511049-BLK1)					Prepared: 03/13/25 Analyzed: 03/13/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	48.0		50.0		95.9	61-141			

LCS (2511049-BS1)					Prepared: 03/13/25 Analyzed: 03/13/25				
Diesel Range Organics (C10-C28)	223	25.0	250		89.2	66-144			
Surrogate: n-Nonane	49.3		50.0		98.6	61-141			

Matrix Spike (2511049-MS1)					Source: E503071-02		Prepared: 03/13/25 Analyzed: 03/13/25		
Diesel Range Organics (C10-C28)	339	25.0	250	127	84.9	56-156			
Surrogate: n-Nonane	49.2		50.0		98.4	61-141			

Matrix Spike Dup (2511049-MSD1)					Source: E503071-02		Prepared: 03/13/25 Analyzed: 03/13/25		
Diesel Range Organics (C10-C28)	435	25.0	250	127	123	56-156	24.9	20	R3
Surrogate: n-Nonane	49.8		50.0		99.6	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/17/2025 1:14:10PM

Anions by EPA 300.0/9056A

Analyst: AK

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

Blank (2511058-BLK1)					Prepared: 03/13/25 Analyzed: 03/13/25				
Chloride	ND	20.0							
LCS (2511058-BS1)					Prepared: 03/13/25 Analyzed: 03/13/25				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2511058-MS1)					Source: E503074-02		Prepared: 03/13/25 Analyzed: 03/13/25		
Chloride	332	40.0	250	84.6	99.1	80-120			
Matrix Spike Dup (2511058-MSD1)					Source: E503074-02		Prepared: 03/13/25 Analyzed: 03/13/25		
Chloride	330	40.0	250	84.6	98.2	80-120	0.722	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

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	03/17/25 13:14

- R3 The RPD exceeded the acceptance limit. LCS spike recovery met acceptance criteria.
- 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.



Client: Devon Energy Production Company, LP					Bill To					Lab Use Only					TAT				EPA Program					
Project: TOMCAT 8 FEDERAL #001					Attention: Jim Raley					Lab WO#		Job Number			1D	2D	3D	Standard	CWA	SDWA				
Project Manager: Anna Byers					Address: 5315 Buena Vista Dr.					E 503077		21058-0007						5 day TAT						
Address: 13000 W County Rd 100					City, State, Zip: Carlsbad, NM, 88220					Analysis and Method												RCRA		
City, State, Zip: Odessa, TX, 79765					Phone: 575-885-7502					Depth(ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State						
Phone: 432-305-6415					Email: jim.raley@devn.com													NM	CO	UT	AZ	TX		
Email: NMTXGeoGroup@etechnv.com					WBS: 1007025301-48 1065536801																			
Project #: 19305					Incident ID: nKL1622549584																			
Collected by: Haleigh Blume																								
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number																			
10:20	03.11.25	S	1	BH01	1	0.5'										X								
10:25	03.11.25	S	1	BH01	2	1'										X								
10:40	03.11.25	S	1	BH01	3	2'										X								
10:55	03.11.25	S	1	BH01	4	4'										X								
Additional Instructions:																								
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.															Sampled by: HB					Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.				
Relinquished by: (Signature)					Date		Time		Received by: (Signature)					Date		Time		Lab Use Only						
Michelle Gonzales					03.11.25		1545		Michelle Gonzales					3-12-25		1130		Received on ice: (Y) N						
Relinquished by: (Signature)					Date		Time		Received by: (Signature)					Date		Time		T1 T2 T3						
Michelle Gonzales					3-12-25		1545		Richard Gonzales					3-12-25		1545								
Relinquished by: (Signature)					Date		Time		Received by: (Signature)					Date		Time		AVG Temp °C						
Richard Gonzales					3-12-25		2145		Noe Soto					3-13-25		0800		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									
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 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.																								

Envirotech Analytical Laboratory

Printed: 3/13/2025 9:50:05AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	03/13/25 08:00	Work Order ID:	E503077
Phone:	(575) 748-0176	Date Logged In:	03/12/25 14:57	Logged In By:	Caitlin Mars
Email:	anna@etechnv.com	Due Date:	03/19/25 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the 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 sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC 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 non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

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

Date



envirotech Inc.



Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 8 FEDERAL #001

Work Order: E503099

Job Number: 01058-0007

Received: 3/14/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/19/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/19/25



Anna Byers
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: TOMCAT 8 FEDERAL #001
Workorder: E503099
Date Received: 3/14/2025 4:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/14/2025 4:30:00AM, under the Project Name: TOMCAT 8 FEDERAL #001.

The analytical test results summarized in this report with the Project Name: TOMCAT 8 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 regarding 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
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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH01 3'	5
QC Summary Data	6
QC - Volatile Organics by EPA 8021B	6
QC - Nonhalogenated Organics by EPA 8015D - GRO	7
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	8
QC - Anions by EPA 300.0/9056A	9
Definitions and Notes	10
Chain of Custody etc.	11

Sample Summary

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	03/19/25 10:16

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH01 3'	E503099-01A	Soil	03/11/25	03/14/25	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	3/19/2025 10:16:17AM

BH01 3'

E503099-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2511072	
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/15/25	
Surrogate: 4-Bromochlorobenzene-PID	78.0 %	70-130		03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2511072	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	96.6 %	70-130		03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2511079	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/25	03/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/14/25	
Surrogate: n-Nonane	105 %	61-141		03/14/25	03/14/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: AK		Batch: 2511071	
Chloride	1300	20.0	1	03/14/25	03/14/25	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/19/2025 10:16:17AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2511072-BLK1)

Prepared: 03/14/25 Analyzed: 03/14/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	6.39		8.00		79.9	70-130			

LCS (2511072-BS1)

Prepared: 03/14/25 Analyzed: 03/14/25

Benzene	4.76	0.0250	5.00		95.1	70-130			
Ethylbenzene	4.53	0.0250	5.00		90.6	70-130			
Toluene	4.67	0.0250	5.00		93.4	70-130			
o-Xylene	4.53	0.0250	5.00		90.6	70-130			
p,m-Xylene	9.20	0.0500	10.0		92.0	70-130			
Total Xylenes	13.7	0.0250	15.0		91.5	70-130			
Surrogate: 4-Bromochlorobenzene-PID	6.38		8.00		79.8	70-130			

Matrix Spike (2511072-MS1)

Source: E503097-03

Prepared: 03/14/25 Analyzed: 03/15/25

Benzene	5.08	0.0250	5.00	ND	102	54-133			
Ethylbenzene	4.84	0.0250	5.00	ND	96.8	61-133			
Toluene	4.99	0.0250	5.00	ND	99.8	61-130			
o-Xylene	4.81	0.0250	5.00	ND	96.2	63-131			
p,m-Xylene	9.81	0.0500	10.0	ND	98.1	63-131			
Total Xylenes	14.6	0.0250	15.0	ND	97.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	6.31		8.00		78.9	70-130			

Matrix Spike Dup (2511072-MSD1)

Source: E503097-03

Prepared: 03/14/25 Analyzed: 03/15/25

Benzene	5.37	0.0250	5.00	ND	107	54-133	5.53	20	
Ethylbenzene	5.10	0.0250	5.00	ND	102	61-133	5.35	20	
Toluene	5.27	0.0250	5.00	ND	105	61-130	5.52	20	
o-Xylene	5.07	0.0250	5.00	ND	101	63-131	5.18	20	
p,m-Xylene	10.3	0.0500	10.0	ND	103	63-131	5.19	20	
Total Xylenes	15.4	0.0250	15.0	ND	103	63-131	5.19	20	
Surrogate: 4-Bromochlorobenzene-PID	6.30		8.00		78.8	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/19/2025 10:16:17AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2511072-BLK1) Prepared: 03/14/25 Analyzed: 03/14/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.74		8.00		96.8	70-130			

LCS (2511072-BS2) Prepared: 03/14/25 Analyzed: 03/14/25

Gasoline Range Organics (C6-C10)	38.9	20.0	50.0		77.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.72		8.00		96.5	70-130			

Matrix Spike (2511072-MS2) Source: E503097-03 Prepared: 03/14/25 Analyzed: 03/15/25

Gasoline Range Organics (C6-C10)	41.2	20.0	50.0	ND	82.5	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.86		8.00		98.3	70-130			

Matrix Spike Dup (2511072-MSD2) Source: E503097-03 Prepared: 03/14/25 Analyzed: 03/15/25

Gasoline Range Organics (C6-C10)	40.3	20.0	50.0	ND	80.6	70-130	2.27	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.81		8.00		97.6	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/19/2025 10:16:17AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2511079-BLK1)					Prepared: 03/14/25 Analyzed: 03/14/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.9		50.0		104	61-141			

LCS (2511079-BS1)					Prepared: 03/14/25 Analyzed: 03/14/25				
Diesel Range Organics (C10-C28)	246	25.0	250		98.3	66-144			
Surrogate: n-Nonane	51.4		50.0		103	61-141			

Matrix Spike (2511079-MS1)					Source: E503096-01		Prepared: 03/14/25 Analyzed: 03/14/25		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	56-156			
Surrogate: n-Nonane	55.4		50.0		111	61-141			

Matrix Spike Dup (2511079-MSD1)					Source: E503096-01		Prepared: 03/14/25 Analyzed: 03/14/25		
Diesel Range Organics (C10-C28)	266	25.0	250	ND	107	56-156	0.820	20	
Surrogate: n-Nonane	55.6		50.0		111	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/19/2025 10:16:17AM

Anions by EPA 300.0/9056A

Analyst: AK

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2511071-BLK1)					Prepared: 03/14/25 Analyzed: 03/14/25				
Chloride	ND	20.0							
LCS (2511071-BS1)					Prepared: 03/14/25 Analyzed: 03/14/25				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2511071-MS1)					Source: E503097-08		Prepared: 03/14/25 Analyzed: 03/14/25		
Chloride	748	20.0	250	501	98.9	80-120			
Matrix Spike Dup (2511071-MSD1)					Source: E503097-08		Prepared: 03/14/25 Analyzed: 03/14/25		
Chloride	742	20.0	250	501	96.3	80-120	0.884	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

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	03/19/25 10:16

- 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.

envirotech

Envirotech Analytical Laboratory

Printed: 3/14/2025 8:57:15AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	03/14/25 04:30	Work Order ID:	E503099
Phone:	(575) 748-0176	Date Logged In:	03/13/25 16:48	Logged In By:	Noe Soto
Email:	anna@etechnv.com	Due Date:	03/20/25 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the 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 sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC 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 non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

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

Date



envirotech Inc.

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 8 FEDERAL #001

Work Order: E503100

Job Number: 01058-0007

Received: 3/14/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/19/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/19/25



Anna Byers
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: TOMCAT 8 FEDERAL #001
Workorder: E503100
Date Received: 3/14/2025 4:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/14/2025 4:30:00AM, under the Project Name: TOMCAT 8 FEDERAL #001.

The analytical test results summarized in this report with the Project Name: TOMCAT 8 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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH02 0.5'	5
BH02 1'	6
BH02 2'	7
BH02 3'	8
QC Summary Data	9
QC - Volatile Organics by EPA 8021B	9
QC - Nonhalogenated Organics by EPA 8015D - GRO	10
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

Sample Summary

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	03/19/25 10:51

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 0.5'	E503100-01A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH02 1'	E503100-02A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH02 2'	E503100-03A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH02 3'	E503100-04A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.

Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/19/2025 10:51:00AM

BH02 0.5'

E503100-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2511074	
Benzene	ND	0.0250	1	03/14/25	03/14/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/14/25	
Toluene	0.0432	0.0250	1	03/14/25	03/14/25	
o-Xylene	ND	0.0250	1	03/14/25	03/14/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/14/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/14/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	03/14/25	03/14/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2511074	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/14/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		92.0 %	70-130	03/14/25	03/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2511079	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/25	03/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/14/25	
<i>Surrogate: n-Nonane</i>						
		104 %	61-141	03/14/25	03/14/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2511080	
Chloride	29.6	20.0	1	03/14/25	03/14/25	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: TOMCAT 8 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 3/19/2025 10:51:00AM
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BH02 1'

E503100-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2511074	
Benzene	ND	0.0250	1	03/14/25	03/14/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/14/25	
Toluene	ND	0.0250	1	03/14/25	03/14/25	
o-Xylene	ND	0.0250	1	03/14/25	03/14/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/14/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/14/25	
Surrogate: 4-Bromochlorobenzene-PID	103 %	70-130		03/14/25	03/14/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2511074	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/14/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.5 %	70-130		03/14/25	03/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2511079	
Diesel Range Organics (C10-C28)	25.9	25.0	1	03/14/25	03/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/14/25	
Surrogate: n-Nonane	110 %	61-141		03/14/25	03/14/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2511080	
Chloride	ND	20.0	1	03/14/25	03/14/25	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/19/2025 10:51:00AM

BH02 2'

E503100-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2511074	
Benzene	ND	0.0250	1	03/14/25	03/14/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/14/25	
Toluene	ND	0.0250	1	03/14/25	03/14/25	
o-Xylene	ND	0.0250	1	03/14/25	03/14/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/14/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/14/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	03/14/25	03/14/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2511074	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/14/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		91.0 %	70-130	03/14/25	03/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2511079	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/25	03/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/14/25	
<i>Surrogate: n-Nonane</i>		107 %	61-141	03/14/25	03/14/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2511080	
Chloride	ND	20.0	1	03/14/25	03/14/25	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/19/2025 10:51:00AM

BH02 3'

E503100-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2511074	
Benzene	ND	0.0250	1	03/14/25	03/14/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/14/25	
Toluene	ND	0.0250	1	03/14/25	03/14/25	
o-Xylene	ND	0.0250	1	03/14/25	03/14/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/14/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/14/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		103 %	70-130	03/14/25	03/14/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2511074	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/14/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		91.7 %	70-130	03/14/25	03/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2511079	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/25	03/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/15/25	
<i>Surrogate: n-Nonane</i>						
		105 %	61-141	03/14/25	03/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2511080	
Chloride	ND	20.0	1	03/14/25	03/14/25	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/19/2025 10:51:00AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2511074-BLK1) Prepared: 03/14/25 Analyzed: 03/14/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.31		8.00		104	70-130			

LCS (2511074-BS1) Prepared: 03/14/25 Analyzed: 03/14/25

Benzene	5.31	0.0250	5.00		106	70-130			
Ethylbenzene	5.16	0.0250	5.00		103	70-130			
Toluene	5.26	0.0250	5.00		105	70-130			
o-Xylene	5.16	0.0250	5.00		103	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.47		8.00		106	70-130			

Matrix Spike (2511074-MS1) Source: E503100-03 Prepared: 03/14/25 Analyzed: 03/14/25

Benzene	5.04	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.88	0.0250	5.00	ND	97.6	61-133			
Toluene	4.98	0.0250	5.00	ND	99.6	61-130			
o-Xylene	4.86	0.0250	5.00	ND	97.2	63-131			
p,m-Xylene	9.92	0.0500	10.0	ND	99.2	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.19		8.00		102	70-130			

Matrix Spike Dup (2511074-MSD1) Source: E503100-03 Prepared: 03/14/25 Analyzed: 03/14/25

Benzene	5.30	0.0250	5.00	ND	106	54-133	4.92	20	
Ethylbenzene	5.13	0.0250	5.00	ND	103	61-133	4.92	20	
Toluene	5.23	0.0250	5.00	ND	105	61-130	4.92	20	
o-Xylene	5.11	0.0250	5.00	ND	102	63-131	4.90	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	4.91	20	
Total Xylenes	15.5	0.0250	15.0	ND	103	63-131	4.91	20	
Surrogate: 4-Bromochlorobenzene-PID	8.08		8.00		101	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/19/2025 10:51:00AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2511074-BLK1) Prepared: 03/14/25 Analyzed: 03/14/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.22		8.00		90.2	70-130			

LCS (2511074-BS2) Prepared: 03/14/25 Analyzed: 03/14/25

Gasoline Range Organics (C6-C10)	43.2	20.0	50.0		86.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.7	70-130			

Matrix Spike (2511074-MS2) Source: E503100-03 Prepared: 03/14/25 Analyzed: 03/14/25

Gasoline Range Organics (C6-C10)	41.6	20.0	50.0	ND	83.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.6	70-130			

Matrix Spike Dup (2511074-MSD2) Source: E503100-03 Prepared: 03/14/25 Analyzed: 03/14/25

Gasoline Range Organics (C6-C10)	42.5	20.0	50.0	ND	85.1	70-130	2.16	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/19/2025 10:51:00AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2511079-BLK1)					Prepared: 03/14/25 Analyzed: 03/14/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.9		50.0		104	61-141			

LCS (2511079-BS1)					Prepared: 03/14/25 Analyzed: 03/14/25				
Diesel Range Organics (C10-C28)	246	25.0	250		98.3	66-144			
Surrogate: n-Nonane	51.4		50.0		103	61-141			

Matrix Spike (2511079-MS1)					Source: E503096-01		Prepared: 03/14/25 Analyzed: 03/14/25		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	56-156			
Surrogate: n-Nonane	55.4		50.0		111	61-141			

Matrix Spike Dup (2511079-MSD1)					Source: E503096-01		Prepared: 03/14/25 Analyzed: 03/14/25		
Diesel Range Organics (C10-C28)	266	25.0	250	ND	107	56-156	0.820	20	
Surrogate: n-Nonane	55.6		50.0		111	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/19/2025 10:51:00AM

Anions by EPA 300.0/9056A

Analyst: JM

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

Blank (2511080-BLK1)					Prepared: 03/14/25 Analyzed: 03/14/25				
Chloride	ND	20.0							
LCS (2511080-BS1)					Prepared: 03/14/25 Analyzed: 03/14/25				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2511080-MS1)					Source: E503101-01		Prepared: 03/14/25 Analyzed: 03/14/25		
Chloride	462	20.0	250	191	108	80-120			
Matrix Spike Dup (2511080-MSD1)					Source: E503101-01		Prepared: 03/14/25 Analyzed: 03/14/25		
Chloride	466	20.0	250	191	110	80-120	0.927	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

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	03/19/25 10:51

- 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.

Client: Devon Energy Production Company, LP				Bill To		Lab Use Only		TAT			EPA Program							
Project: TOMCAT 8 FEDERAL #001				Attention: Jim Raley		Lab WO#	Job Number	1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E 503100	01058-0007				5 day TAT							
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220		Analysis and Method								RCRA				
City, State, Zip: Odessa, TX, 79765				Phone: 575-885-7502		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 432-305-6415				Email: jim.raley@dmv.com										NM	CO	UT	AZ	TX
Email: NMTXGeoGroup@etechnv.com				WBS: 1061476201 - NM Permian Abandon														
Project #: 19305				Incident ID: nKL1622549584														
Collected by: Haleigh Blume														Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number													
9:10	03.12.25	S	1	BH02	1	0.5'							X					
9:15	03.12.25	S	1	BH02	2	1'							X					
9:30	03.12.25	S	1	BH02	3	2'							X					
9:35	03.12.25	S	1	BH02	4	3'							X					
Additional Instructions:																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.						
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only										
Haleigh Blume		03/12/25	1520	Michelle Gonzales		3-12-25	1520	Received on ice: <input checked="" type="radio"/> Y / <input type="radio"/> N										
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	T1 T2 T3										
Michelle Gonzales		3-13-25	1700	John H.		3-13-25	1700											
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	AVG Temp °C										
John H.		3-13-25	2300	Kathryn R. Heeler		3-14-25	0430	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												
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 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.																		



Envirotech Analytical Laboratory

Printed: 3/14/2025 9:07:12AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	03/14/25 04:30	Work Order ID:	E503100
Phone:	(575) 748-0176	Date Logged In:	03/13/25 16:53	Logged In By:	Noe Soto
Email:	anna@etechnv.com	Due Date:	03/20/25 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the 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 sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC 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 non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

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

Date



envirotech Inc.

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 8 FEDERAL #001

Work Order: E503101

Job Number: 01058-0007

Received: 3/14/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/19/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/19/25



Anna Byers
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: TOMCAT 8 FEDERAL #001
Workorder: E503101
Date Received: 3/14/2025 4:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/14/2025 4:30:00AM, under the Project Name: TOMCAT 8 FEDERAL #001.

The analytical test results summarized in this report with the Project Name: TOMCAT 8 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 regarding 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
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Cell: 775-287-1762
whinchman@envirotech-inc.com

Raina Schwanz
Laboratory Administrator
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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH03 0.5'	5
BH03 1'	6
BH03 2'	7
BH03 3'	8
QC Summary Data	9
QC - Volatile Organics by EPA 8021B	9
QC - Nonhalogenated Organics by EPA 8015D - GRO	10
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

Sample Summary

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	03/19/25 10:52

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH03 0.5'	E503101-01A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH03 1'	E503101-02A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH03 2'	E503101-03A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH03 3'	E503101-04A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	3/19/2025 10:52:27AM

BH03 0.5'

E503101-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2511074	
Benzene	ND	0.0250	1	03/14/25	03/14/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/14/25	
Toluene	ND	0.0250	1	03/14/25	03/14/25	
o-Xylene	ND	0.0250	1	03/14/25	03/14/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/14/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/14/25	
Surrogate: 4-Bromochlorobenzene-PID	103 %	70-130		03/14/25	03/14/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2511074	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/14/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	92.0 %	70-130		03/14/25	03/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2511079	
Diesel Range Organics (C10-C28)	42.6	25.0	1	03/14/25	03/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/15/25	
Surrogate: n-Nonane	106 %	61-141		03/14/25	03/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2511080	
Chloride	191	20.0	1	03/14/25	03/14/25	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/19/2025 10:52:27AM

BH03 1'

E503101-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2511074	
Benzene	ND	0.0250	1	03/14/25	03/14/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/14/25	
Toluene	ND	0.0250	1	03/14/25	03/14/25	
o-Xylene	ND	0.0250	1	03/14/25	03/14/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/14/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/14/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		103 %	70-130	03/14/25	03/14/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2511074	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/14/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.1 %	70-130	03/14/25	03/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2511079	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/25	03/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/15/25	
<i>Surrogate: n-Nonane</i>		107 %	61-141	03/14/25	03/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2511080	
Chloride	333	20.0	1	03/14/25	03/14/25	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: TOMCAT 8 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 3/19/2025 10:52:27AM
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BH03 2'

E503101-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2511074	
Benzene	ND	0.0250	1	03/14/25	03/14/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/14/25	
Toluene	ND	0.0250	1	03/14/25	03/14/25	
o-Xylene	ND	0.0250	1	03/14/25	03/14/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/14/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/14/25	
Surrogate: 4-Bromochlorobenzene-PID	103 %	70-130		03/14/25	03/14/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2511074	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/14/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	90.8 %	70-130		03/14/25	03/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2511079	
Diesel Range Organics (C10-C28)	138	25.0	1	03/14/25	03/15/25	
Oil Range Organics (C28-C36)	222	50.0	1	03/14/25	03/15/25	
Surrogate: n-Nonane	106 %	61-141		03/14/25	03/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2511080	
Chloride	495	20.0	1	03/14/25	03/14/25	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/19/2025 10:52:27AM

BH03 3'

E503101-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2511074	
Benzene	ND	0.0250	1	03/14/25	03/14/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/14/25	
Toluene	ND	0.0250	1	03/14/25	03/14/25	
o-Xylene	ND	0.0250	1	03/14/25	03/14/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/14/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/14/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		104 %	70-130	03/14/25	03/14/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2511074	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/14/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.3 %	70-130	03/14/25	03/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2511079	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/25	03/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/15/25	
<i>Surrogate: n-Nonane</i>		106 %	61-141	03/14/25	03/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2511080	
Chloride	733	20.0	1	03/14/25	03/14/25	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/19/2025 10:52:27AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2511074-BLK1)

Prepared: 03/14/25 Analyzed: 03/14/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.31		8.00		104	70-130			

LCS (2511074-BS1)

Prepared: 03/14/25 Analyzed: 03/14/25

Benzene	5.31	0.0250	5.00		106	70-130			
Ethylbenzene	5.16	0.0250	5.00		103	70-130			
Toluene	5.26	0.0250	5.00		105	70-130			
o-Xylene	5.16	0.0250	5.00		103	70-130			
p,m-Xylene	10.5	0.0500	10.0		105	70-130			
Total Xylenes	15.6	0.0250	15.0		104	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.47		8.00		106	70-130			

Matrix Spike (2511074-MS1)

Source: E503100-03

Prepared: 03/14/25 Analyzed: 03/14/25

Benzene	5.04	0.0250	5.00	ND	101	54-133			
Ethylbenzene	4.88	0.0250	5.00	ND	97.6	61-133			
Toluene	4.98	0.0250	5.00	ND	99.6	61-130			
o-Xylene	4.86	0.0250	5.00	ND	97.2	63-131			
p,m-Xylene	9.92	0.0500	10.0	ND	99.2	63-131			
Total Xylenes	14.8	0.0250	15.0	ND	98.5	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.19		8.00		102	70-130			

Matrix Spike Dup (2511074-MSD1)

Source: E503100-03

Prepared: 03/14/25 Analyzed: 03/14/25

Benzene	5.30	0.0250	5.00	ND	106	54-133	4.92	20	
Ethylbenzene	5.13	0.0250	5.00	ND	103	61-133	4.92	20	
Toluene	5.23	0.0250	5.00	ND	105	61-130	4.92	20	
o-Xylene	5.11	0.0250	5.00	ND	102	63-131	4.90	20	
p,m-Xylene	10.4	0.0500	10.0	ND	104	63-131	4.91	20	
Total Xylenes	15.5	0.0250	15.0	ND	103	63-131	4.91	20	
Surrogate: 4-Bromochlorobenzene-PID	8.08		8.00		101	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/19/2025 10:52:27AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2511074-BLK1) Prepared: 03/14/25 Analyzed: 03/14/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.22		8.00		90.2	70-130			

LCS (2511074-BS2) Prepared: 03/14/25 Analyzed: 03/14/25

Gasoline Range Organics (C6-C10)	43.2	20.0	50.0		86.4	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.25		8.00		90.7	70-130			

Matrix Spike (2511074-MS2) Source: E503100-03 Prepared: 03/14/25 Analyzed: 03/14/25

Gasoline Range Organics (C6-C10)	41.6	20.0	50.0	ND	83.3	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.49		8.00		93.6	70-130			

Matrix Spike Dup (2511074-MSD2) Source: E503100-03 Prepared: 03/14/25 Analyzed: 03/14/25

Gasoline Range Organics (C6-C10)	42.5	20.0	50.0	ND	85.1	70-130	2.16	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/19/2025 10:52:27AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2511079-BLK1)					Prepared: 03/14/25 Analyzed: 03/14/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.9		50.0		104	61-141			

LCS (2511079-BS1)					Prepared: 03/14/25 Analyzed: 03/14/25				
Diesel Range Organics (C10-C28)	246	25.0	250		98.3	66-144			
Surrogate: n-Nonane	51.4		50.0		103	61-141			

Matrix Spike (2511079-MS1)					Source: E503096-01		Prepared: 03/14/25 Analyzed: 03/14/25		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	56-156			
Surrogate: n-Nonane	55.4		50.0		111	61-141			

Matrix Spike Dup (2511079-MSD1)					Source: E503096-01		Prepared: 03/14/25 Analyzed: 03/14/25		
Diesel Range Organics (C10-C28)	266	25.0	250	ND	107	56-156	0.820	20	
Surrogate: n-Nonane	55.6		50.0		111	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/19/2025 10:52:27AM

Anions by EPA 300.0/9056A

Analyst: JM

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

Blank (2511080-BLK1)					Prepared: 03/14/25 Analyzed: 03/14/25				
Chloride	ND	20.0							
LCS (2511080-BS1)					Prepared: 03/14/25 Analyzed: 03/14/25				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2511080-MS1)					Source: E503101-01		Prepared: 03/14/25 Analyzed: 03/14/25		
Chloride	462	20.0	250	191	108	80-120			
Matrix Spike Dup (2511080-MSD1)					Source: E503101-01		Prepared: 03/14/25 Analyzed: 03/14/25		
Chloride	466	20.0	250	191	110	80-120	0.927	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

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	03/19/25 10:52

- 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.

Released to Imaging: 6/9/2025 2:19:30 PM

Received by OCD: 6/6/2025 10:45:55 AM

Client: Devon Energy Production Company, LP		Bill To		Lab Use Only		TAT		EPA Program								
Project: TOMCAT 8 FEDERAL #001		Attention: Jim Raley		Lab WO#		1D	2D	3D	Standard	CWA	SDWA					
Project Manager: Anna Byers		Address: 5315 Buena Vista Dr.		E503101		Job Number		5 day TAT								
Address: 13000 W County Rd 100		City, State, Zip: Carlsbad, NM, 88220		Analysis and Method							RCRA					
City, State, Zip: Odessa, TX, 79765		Phone: 575-885-7502		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 432-305-6415		Email: jim.raley@dvn.com										NM	CO	UT	AZ	TX
Email: NMTXGeoGroup@etechnv.com		WBS: 1061476201 - NM Permian Abandon														
Project #: 19305		Incident ID: nKL1622549584														
Collected by: Haleigh Blume																

Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number	Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	Remarks
10:05	03.12.25	S	1	BH03	1	0.5'						X		
10:10	03.12.25	S	1	BH03	2	1'						X		
10:25	03.12.25	S	1	BH03	3	2'						X		
10:30	03.12.25	S	1	BH03	4	3'						X		

Additional Instructions:					
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.					
Sampled by: HB					
Relinquished by: (Signature)		Date	Time	Received by: (Signature)	
Haleigh Blume		3/12/25	1520	Michelle Gonzales	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)	
Michelle Gonzales		3-13-25	1700	L. Hall	
Relinquished by: (Signature)		Date	Time	Received by: (Signature)	
L. Hall		3.13.25	2300	L. Hall	
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other		Container Type: g - glass, p - poly/plastic, ag - amber 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 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.					

Lab Use Only		
Received on ice:	Y / N	
T1	T2	T3
AVG Temp °C 4		



envirotech

Page 101 of 222

Envirotech Analytical Laboratory

Printed: 3/14/2025 9:09:40AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	03/14/25 04:30	Work Order ID:	E503101
Phone:	(575) 748-0176	Date Logged In:	03/13/25 16:56	Logged In By:	Noe Soto
Email:	anna@etechnv.com	Due Date:	03/20/25 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the 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 sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC 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 non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

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

Date



envirotech Inc.

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 8 FEDERAL #001

Work Order: E503103

Job Number: 01058-0007

Received: 3/14/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/19/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/19/25



Anna Byers
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: TOMCAT 8 FEDERAL #001
Workorder: E503103
Date Received: 3/14/2025 4:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/14/2025 4:30:00AM, under the Project Name: TOMCAT 8 FEDERAL #001.

The analytical test results summarized in this report with the Project Name: TOMCAT 8 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 regarding 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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Cell: 775-287-1762
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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH04 0.5'	5
BH04 1'	6
BH04 2'	7
BH04 3'	8
QC Summary Data	9
QC - Volatile Organics by EPA 8021B	9
QC - Nonhalogenated Organics by EPA 8015D - GRO	10
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	11
QC - Anions by EPA 300.0/9056A	12
Definitions and Notes	13
Chain of Custody etc.	14

Sample Summary

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	03/19/25 10:20

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH04 0.5'	E503103-01A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH04 1'	E503103-02A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH04 2'	E503103-03A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH04 3'	E503103-04A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/19/2025 10:20:50AM

BH04 0.5'

E503103-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2511073	
Benzene	ND	0.0250	1	03/14/25	03/14/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/14/25	
Toluene	ND	0.0250	1	03/14/25	03/14/25	
o-Xylene	ND	0.0250	1	03/14/25	03/14/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/14/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/14/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	03/14/25	03/14/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2511073	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/14/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.6 %	70-130	03/14/25	03/14/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2511079	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/25	03/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/15/25	
<i>Surrogate: n-Nonane</i>		108 %	61-141	03/14/25	03/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2511080	
Chloride	ND	20.0	1	03/14/25	03/14/25	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/19/2025 10:20:50AM

BH04 1'

E503103-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2511073
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		102 %	70-130	03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2511073
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.3 %	70-130	03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2511079
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/25	03/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/15/25	
<i>Surrogate: n-Nonane</i>						
		108 %	61-141	03/14/25	03/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2511080
Chloride	35.0	20.0	1	03/14/25	03/14/25	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/19/2025 10:20:50AM

BH04 2'

E503103-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2511073
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2511073
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.8 %	70-130	03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2511079
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/25	03/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/15/25	
<i>Surrogate: n-Nonane</i>						
		104 %	61-141	03/14/25	03/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2511080
Chloride	38.0	20.0	1	03/14/25	03/14/25	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/19/2025 10:20:50AM

BH04 3'

E503103-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2511073	
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2511073	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.5 %	70-130	03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: NV		Batch: 2511079	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/25	03/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/15/25	
<i>Surrogate: n-Nonane</i>						
		106 %	61-141	03/14/25	03/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: JM		Batch: 2511080	
Chloride	305	20.0	1	03/14/25	03/14/25	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/19/2025 10:20:50AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2511073-BLK1)

Prepared: 03/14/25 Analyzed: 03/14/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.31		8.00		104	70-130			

LCS (2511073-BS1)

Prepared: 03/14/25 Analyzed: 03/14/25

Benzene	5.04	0.0250	5.00		101	70-130			
Ethylbenzene	4.88	0.0250	5.00		97.6	70-130			
Toluene	4.98	0.0250	5.00		99.6	70-130			
o-Xylene	4.87	0.0250	5.00		97.5	70-130			
p,m-Xylene	9.92	0.0500	10.0		99.1	70-130			
Total Xylenes	14.8	0.0250	15.0		98.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.30		8.00		104	70-130			

Matrix Spike (2511073-MS1)

Source: E503103-01

Prepared: 03/14/25 Analyzed: 03/14/25

Benzene	5.13	0.0250	5.00	ND	103	54-133			
Ethylbenzene	4.96	0.0250	5.00	ND	99.2	61-133			
Toluene	5.06	0.0250	5.00	ND	101	61-130			
o-Xylene	4.95	0.0250	5.00	ND	99.0	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.25		8.00		103	70-130			

Matrix Spike Dup (2511073-MSD1)

Source: E503103-01

Prepared: 03/14/25 Analyzed: 03/14/25

Benzene	5.10	0.0250	5.00	ND	102	54-133	0.560	20	
Ethylbenzene	4.93	0.0250	5.00	ND	98.7	61-133	0.562	20	
Toluene	5.04	0.0250	5.00	ND	101	61-130	0.581	20	
o-Xylene	4.91	0.0250	5.00	ND	98.3	63-131	0.704	20	
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	0.682	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.5	63-131	0.689	20	
Surrogate: 4-Bromochlorobenzene-PID	8.22		8.00		103	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/19/2025 10:20:50AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2511073-BLK1) Prepared: 03/14/25 Analyzed: 03/14/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			

LCS (2511073-BS2) Prepared: 03/14/25 Analyzed: 03/14/25

Gasoline Range Organics (C6-C10)	44.0	20.0	50.0		88.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			

Matrix Spike (2511073-MS2) Source: E503103-01 Prepared: 03/14/25 Analyzed: 03/14/25

Gasoline Range Organics (C6-C10)	41.0	20.0	50.0	ND	82.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			

Matrix Spike Dup (2511073-MSD2) Source: E503103-01 Prepared: 03/14/25 Analyzed: 03/14/25

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0	ND	96.2	70-130	16.0	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/19/2025 10:20:50AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2511079-BLK1)					Prepared: 03/14/25 Analyzed: 03/14/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.9		50.0		104	61-141			

LCS (2511079-BS1)					Prepared: 03/14/25 Analyzed: 03/14/25				
Diesel Range Organics (C10-C28)	246	25.0	250		98.3	66-144			
Surrogate: n-Nonane	51.4		50.0		103	61-141			

Matrix Spike (2511079-MS1)					Source: E503096-01		Prepared: 03/14/25 Analyzed: 03/14/25		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	56-156			
Surrogate: n-Nonane	55.4		50.0		111	61-141			

Matrix Spike Dup (2511079-MSD1)					Source: E503096-01		Prepared: 03/14/25 Analyzed: 03/14/25		
Diesel Range Organics (C10-C28)	266	25.0	250	ND	107	56-156	0.820	20	
Surrogate: n-Nonane	55.6		50.0		111	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/19/2025 10:20:50AM

Anions by EPA 300.0/9056A

Analyst: JM

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

Blank (2511080-BLK1)					Prepared: 03/14/25 Analyzed: 03/14/25				
Chloride	ND	20.0							
LCS (2511080-BS1)					Prepared: 03/14/25 Analyzed: 03/14/25				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2511080-MS1)					Source: E503101-01		Prepared: 03/14/25 Analyzed: 03/14/25		
Chloride	462	20.0	250	191	108	80-120			
Matrix Spike Dup (2511080-MSD1)					Source: E503101-01		Prepared: 03/14/25 Analyzed: 03/14/25		
Chloride	466	20.0	250	191	110	80-120	0.927	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

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	03/19/25 10:20

- 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.



[illegible]

Envirotech Analytical Laboratory

Printed: 3/14/2025 9:15:42AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	03/14/25 04:30	Work Order ID:	E503103
Phone:	(575) 748-0176	Date Logged In:	03/13/25 17:04	Logged In By:	Noe Soto
Email:	anna@etechnv.com	Due Date:	03/20/25 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the 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 sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC 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 non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

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

Date



envirotech Inc.

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 8 FEDERAL #001

Work Order: E503102

Job Number: 01058-0007

Received: 3/14/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/19/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 3/19/25



Anna Byers
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: TOMCAT 8 FEDERAL #001
Workorder: E503102
Date Received: 3/14/2025 4:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/14/2025 4:30:00AM, under the Project Name: TOMCAT 8 FEDERAL #001.

The analytical test results summarized in this report with the Project Name: TOMCAT 8 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 regarding 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
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Cell: 775-287-1762
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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH02 4'	5
BH03 4'	6
BH04 4'	7
QC Summary Data	8
QC - Volatile Organics by EPA 8021B	8
QC - Nonhalogenated Organics by EPA 8015D - GRO	9
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	10
QC - Anions by EPA 300.0/9056A	11
Definitions and Notes	12
Chain of Custody etc.	13

Sample Summary

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	03/19/25 10:17

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH02 4'	E503102-01A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH03 4'	E503102-02A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH04 4'	E503102-03A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.

Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: TOMCAT 8 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 3/19/2025 10:17:43AM
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BH02 4'

E503102-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2511073	
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2511073	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.4 %	70-130	03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2511079	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/25	03/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/15/25	
<i>Surrogate: n-Nonane</i>		109 %	61-141	03/14/25	03/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2511080	
Chloride	94.7	20.0	1	03/14/25	03/14/25	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/19/2025 10:17:43AM

BH03 4'

E503102-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2511073
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2511073
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		93.5 %	70-130	03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: NV		Batch: 2511079
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/25	03/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/15/25	
<i>Surrogate: n-Nonane</i>						
		106 %	61-141	03/14/25	03/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: JM		Batch: 2511080
Chloride	1260	20.0	1	03/14/25	03/14/25	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/19/2025 10:17:43AM

BH04 4'

E503102-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2511073	
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		101 %	70-130	03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2511073	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		93.9 %	70-130	03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: NV		Batch: 2511079	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/25	03/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/15/25	
<i>Surrogate: n-Nonane</i>		109 %	61-141	03/14/25	03/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: JM		Batch: 2511080	
Chloride	449	20.0	1	03/14/25	03/14/25	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/19/2025 10:17:43AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2511073-BLK1)

Prepared: 03/14/25 Analyzed: 03/14/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.31		8.00		104	70-130			

LCS (2511073-BS1)

Prepared: 03/14/25 Analyzed: 03/14/25

Benzene	5.04	0.0250	5.00		101	70-130			
Ethylbenzene	4.88	0.0250	5.00		97.6	70-130			
Toluene	4.98	0.0250	5.00		99.6	70-130			
o-Xylene	4.87	0.0250	5.00		97.5	70-130			
p,m-Xylene	9.92	0.0500	10.0		99.1	70-130			
Total Xylenes	14.8	0.0250	15.0		98.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.30		8.00		104	70-130			

Matrix Spike (2511073-MS1)

Source: E503103-01

Prepared: 03/14/25 Analyzed: 03/14/25

Benzene	5.13	0.0250	5.00	ND	103	54-133			
Ethylbenzene	4.96	0.0250	5.00	ND	99.2	61-133			
Toluene	5.06	0.0250	5.00	ND	101	61-130			
o-Xylene	4.95	0.0250	5.00	ND	99.0	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.25		8.00		103	70-130			

Matrix Spike Dup (2511073-MSD1)

Source: E503103-01

Prepared: 03/14/25 Analyzed: 03/14/25

Benzene	5.10	0.0250	5.00	ND	102	54-133	0.560	20	
Ethylbenzene	4.93	0.0250	5.00	ND	98.7	61-133	0.562	20	
Toluene	5.04	0.0250	5.00	ND	101	61-130	0.581	20	
o-Xylene	4.91	0.0250	5.00	ND	98.3	63-131	0.704	20	
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	0.682	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.5	63-131	0.689	20	
Surrogate: 4-Bromochlorobenzene-PID	8.22		8.00		103	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/19/2025 10:17:43AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2511073-BLK1) Prepared: 03/14/25 Analyzed: 03/14/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			

LCS (2511073-BS2) Prepared: 03/14/25 Analyzed: 03/14/25

Gasoline Range Organics (C6-C10)	44.0	20.0	50.0		88.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			

Matrix Spike (2511073-MS2) Source: E503103-01 Prepared: 03/14/25 Analyzed: 03/14/25

Gasoline Range Organics (C6-C10)	41.0	20.0	50.0	ND	82.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			

Matrix Spike Dup (2511073-MSD2) Source: E503103-01 Prepared: 03/14/25 Analyzed: 03/14/25

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0	ND	96.2	70-130	16.0	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/19/2025 10:17:43AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: NV

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2511079-BLK1)					Prepared: 03/14/25 Analyzed: 03/14/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	51.9		50.0		104	61-141			

LCS (2511079-BS1)					Prepared: 03/14/25 Analyzed: 03/14/25				
Diesel Range Organics (C10-C28)	246	25.0	250		98.3	66-144			
Surrogate: n-Nonane	51.4		50.0		103	61-141			

Matrix Spike (2511079-MS1)					Source: E503096-01		Prepared: 03/14/25 Analyzed: 03/14/25		
Diesel Range Organics (C10-C28)	268	25.0	250	ND	107	56-156			
Surrogate: n-Nonane	55.4		50.0		111	61-141			

Matrix Spike Dup (2511079-MSD1)					Source: E503096-01		Prepared: 03/14/25 Analyzed: 03/14/25		
Diesel Range Organics (C10-C28)	266	25.0	250	ND	107	56-156	0.820	20	
Surrogate: n-Nonane	55.6		50.0		111	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/19/2025 10:17:43AM

Anions by EPA 300.0/9056A

Analyst: JM

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

Blank (2511080-BLK1)					Prepared: 03/14/25 Analyzed: 03/14/25				
Chloride	ND	20.0							
LCS (2511080-BS1)					Prepared: 03/14/25 Analyzed: 03/14/25				
Chloride	256	20.0	250		102	90-110			
Matrix Spike (2511080-MS1)					Source: E503101-01		Prepared: 03/14/25 Analyzed: 03/14/25		
Chloride	462	20.0	250	191	108	80-120			
Matrix Spike Dup (2511080-MSD1)					Source: E503101-01		Prepared: 03/14/25 Analyzed: 03/14/25		
Chloride	466	20.0	250	191	110	80-120	0.927	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

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	03/19/25 10:17

- 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.

Client: Devon Energy Production Company, LP					Bill To		Lab Use Only						TAT				EPA Program			
Project: TOMCAT 8 FEDERAL #001					Attention: Jim Raley		Lab WO#		Job Number				1D	2D	3D	Standard	CWA	SDWA		
Project Manager: Anna Byers					Address: 5315 Buena Vista Dr.		E503102		01058-0007							5 day TAT				
Address: 13000 W County Rd 100					City, State, Zip: Carlsbad, NM, 88220		Analysis and Method													RCRA
City, State, Zip: Odessa, TX, 79765					Phone: 575-885-7502		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State					
Phone: 432-305-6415					Email: jim.raley@devn.com										NM	CO	UT	AZ	TX	
Email: NMTXGeoGroup@etechnv.com					WBS: 1061476201 - NM Permian Abandon															
Project #: 19305					Incident ID: nKL1622549584															
Collected by: Haleigh Blume																				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number											Remarks				
9:55	03.12.25	S	1	BH02	1	4'							X							
10:35	03.12.25	S	1	BH03	2	4'							X							
11:30	03.12.25	S	1	BH04	3	4'							X							
Additional Instructions:																				
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: HB												Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only												
Haleigh Blume		03/12/2025	1520	Michelle Gonzales		3-12-25	1520	Received on ice: Y / N												
Michelle Gonzales		3-13-25	1700	John H.		3-13-25	1700	T1 T2 T3												
John H.		3-13-25	2300	Kuyler R Heiser		3-14-25	0430	AVG Temp °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												
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 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.																				



envirotech

Envirotech Analytical Laboratory

Printed: 3/14/2025 9:12:47AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	03/14/25 04:30	Work Order ID:	E503102
Phone:	(575) 748-0176	Date Logged In:	03/13/25 16:59	Logged In By:	Noe Soto
Email:	anna@etechnv.com	Due Date:	03/20/25 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the 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 sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC 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 non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

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

Date



envirotech Inc.

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 8 FEDERAL #001

Work Order: E503104

Job Number: 01058-0007

Received: 3/14/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
3/19/25

5796 U.S. Hwy 64
Farmington, NM 87401

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Envirotech Inc. certifies the test results meet all requirements of TNI unless noted otherwise.
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Envirotech Inc. holds the Texas TNI certification T104704557 for data reported.

Date Reported: 3/19/25



Anna Byers
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: TOMCAT 8 FEDERAL #001
Workorder: E503104
Date Received: 3/14/2025 4:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 3/14/2025 4:30:00AM, under the Project Name: TOMCAT 8 FEDERAL #001.

The analytical test results summarized in this report with the Project Name: TOMCAT 8 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 regarding sample receipt temperature, containers, preservation etc. To best understand your test results, review the entire report summarizing your sample data and the associated quality control batch data.

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

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

Respectfully,

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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH05 0.5'	5
BH05 1'	6
BH06 0.5'	7
BH06 1'	8
BH07 0.5'	9
BH07 1'	10
BH08 0.5'	11
BH08 1'	12
BH09 0.5'	13
BH09 1'	14
QC Summary Data	15
QC - Volatile Organics by EPA 8021B	15
QC - Nonhalogenated Organics by EPA 8015D - GRO	16
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	17
QC - Anions by EPA 300.0/9056A	18
Definitions and Notes	19
Chain of Custody etc.	20

Sample Summary

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: TOMCAT 8 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 03/19/25 10:22
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Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH05 0.5'	E503104-01A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH05 1'	E503104-02A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH06 0.5'	E503104-03A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH06 1'	E503104-04A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH07 0.5'	E503104-05A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH07 1'	E503104-06A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH08 0.5'	E503104-07A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH08 1'	E503104-08A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH09 0.5'	E503104-09A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.
BH09 1'	E503104-10A	Soil	03/12/25	03/14/25	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported: 3/19/2025 10:22:48AM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	

BH05 0.5'

E503104-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2511073	
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		102 %	70-130	03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2511073	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		94.5 %	70-130	03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2511078	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/25	03/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/14/25	
<i>Surrogate: n-Nonane</i>		109 %	61-141	03/14/25	03/14/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2511082	
Chloride	ND	20.0	1	03/14/25	03/14/25	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/19/2025 10:22:48AM

BH05 1'

E503104-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2511073	
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		100 %	70-130	03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2511073	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		94.5 %	70-130	03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2511078	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/25	03/14/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/14/25	
<i>Surrogate: n-Nonane</i>						
		113 %	61-141	03/14/25	03/14/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2511082	
Chloride	ND	20.0	1	03/14/25	03/14/25	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/19/2025 10:22:48AM

BH06 0.5'

E503104-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2511073	
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.9 %	70-130		03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2511073	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.9 %	70-130		03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2511078	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/25	03/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/15/25	
<i>Surrogate: n-Nonane</i>						
	110 %	61-141		03/14/25	03/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2511082	
Chloride	ND	20.0	1	03/14/25	03/14/25	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/19/2025 10:22:48AM

BH06 1'

E503104-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2511073	
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.4 %	70-130		03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2511073	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.3 %	70-130		03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2511078	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/25	03/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/15/25	
<i>Surrogate: n-Nonane</i>						
	107 %	61-141		03/14/25	03/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2511082	
Chloride	ND	20.0	1	03/14/25	03/14/25	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/19/2025 10:22:48AM

BH07 0.5'

E503104-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: BA		Batch: 2511073
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/15/25	
Surrogate: 4-Bromochlorobenzene-PID	99.2 %	70-130		03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: BA		Batch: 2511073
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
Surrogate: 1-Chloro-4-fluorobenzene-FID	94.8 %	70-130		03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: AF		Batch: 2511078
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/25	03/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/15/25	
Surrogate: n-Nonane	109 %	61-141		03/14/25	03/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: DT		Batch: 2511082
Chloride	ND	20.0	1	03/14/25	03/14/25	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/19/2025 10:22:48AM

BH07 1'

E503104-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: BA		Batch: 2511073	
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	99.6 %	70-130		03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: BA		Batch: 2511073	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	93.6 %	70-130		03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: AF		Batch: 2511078	
Diesel Range Organics (C10-C28)	44.9	25.0	1	03/14/25	03/15/25	
Oil Range Organics (C28-C36)	93.3	50.0	1	03/14/25	03/15/25	
<i>Surrogate: n-Nonane</i>	109 %	61-141		03/14/25	03/15/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: DT		Batch: 2511082	
Chloride	278	20.0	1	03/14/25	03/14/25	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/19/2025 10:22:48AM

BH08 0.5'

E503104-07

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2511073	
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.0 %	70-130		03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2511073	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.2 %	70-130		03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2511078	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/25	03/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/15/25	
<i>Surrogate: n-Nonane</i>						
	108 %	61-141		03/14/25	03/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2511082	
Chloride	232	20.0	1	03/14/25	03/14/25	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/19/2025 10:22:48AM

BH08 1'

E503104-08

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2511073	
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.4 %	70-130		03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2511073	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.4 %	70-130		03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2511078	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/25	03/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/15/25	
<i>Surrogate: n-Nonane</i>						
	111 %	61-141		03/14/25	03/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2511082	
Chloride	252	20.0	1	03/14/25	03/14/25	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
3/19/2025 10:22:48AM

BH09 0.5'

E503104-09

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2511073	
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	ND	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.1 %	70-130		03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2511073	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	95.5 %	70-130		03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2511078	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/25	03/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/15/25	
<i>Surrogate: n-Nonane</i>						
	112 %	61-141		03/14/25	03/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2511082	
Chloride	347	20.0	1	03/14/25	03/14/25	



Sample Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: TOMCAT 8 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 3/19/2025 10:22:48AM
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BH09 1'

E503104-10

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: BA		Batch: 2511073	
Benzene	ND	0.0250	1	03/14/25	03/15/25	
Ethylbenzene	ND	0.0250	1	03/14/25	03/15/25	
Toluene	0.0371	0.0250	1	03/14/25	03/15/25	
o-Xylene	ND	0.0250	1	03/14/25	03/15/25	
p,m-Xylene	ND	0.0500	1	03/14/25	03/15/25	
Total Xylenes	ND	0.0250	1	03/14/25	03/15/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.6 %	70-130		03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: BA		Batch: 2511073	
Gasoline Range Organics (C6-C10)	ND	20.0	1	03/14/25	03/15/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.8 %	70-130		03/14/25	03/15/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: AF		Batch: 2511078	
Diesel Range Organics (C10-C28)	ND	25.0	1	03/14/25	03/15/25	
Oil Range Organics (C28-C36)	ND	50.0	1	03/14/25	03/15/25	
<i>Surrogate: n-Nonane</i>						
	109 %	61-141		03/14/25	03/15/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: DT		Batch: 2511082	
Chloride	ND	20.0	1	03/14/25	03/14/25	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/19/2025 10:22:48AM

Volatile Organics by EPA 8021B

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2511073-BLK1)

Prepared: 03/14/25 Analyzed: 03/14/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	8.31		8.00		104	70-130			

LCS (2511073-BS1)

Prepared: 03/14/25 Analyzed: 03/14/25

Benzene	5.04	0.0250	5.00		101	70-130			
Ethylbenzene	4.88	0.0250	5.00		97.6	70-130			
Toluene	4.98	0.0250	5.00		99.6	70-130			
o-Xylene	4.87	0.0250	5.00		97.5	70-130			
p,m-Xylene	9.92	0.0500	10.0		99.1	70-130			
Total Xylenes	14.8	0.0250	15.0		98.6	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.30		8.00		104	70-130			

Matrix Spike (2511073-MS1)

Source: E503103-01

Prepared: 03/14/25 Analyzed: 03/14/25

Benzene	5.13	0.0250	5.00	ND	103	54-133			
Ethylbenzene	4.96	0.0250	5.00	ND	99.2	61-133			
Toluene	5.06	0.0250	5.00	ND	101	61-130			
o-Xylene	4.95	0.0250	5.00	ND	99.0	63-131			
p,m-Xylene	10.1	0.0500	10.0	ND	101	63-131			
Total Xylenes	15.0	0.0250	15.0	ND	100	63-131			
Surrogate: 4-Bromochlorobenzene-PID	8.25		8.00		103	70-130			

Matrix Spike Dup (2511073-MSD1)

Source: E503103-01

Prepared: 03/14/25 Analyzed: 03/14/25

Benzene	5.10	0.0250	5.00	ND	102	54-133	0.560	20	
Ethylbenzene	4.93	0.0250	5.00	ND	98.7	61-133	0.562	20	
Toluene	5.04	0.0250	5.00	ND	101	61-130	0.581	20	
o-Xylene	4.91	0.0250	5.00	ND	98.3	63-131	0.704	20	
p,m-Xylene	10.0	0.0500	10.0	ND	100	63-131	0.682	20	
Total Xylenes	14.9	0.0250	15.0	ND	99.5	63-131	0.689	20	
Surrogate: 4-Bromochlorobenzene-PID	8.22		8.00		103	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/19/2025 10:22:48AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: BA

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2511073-BLK1) Prepared: 03/14/25 Analyzed: 03/14/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.37		8.00		92.1	70-130			

LCS (2511073-BS2) Prepared: 03/14/25 Analyzed: 03/14/25

Gasoline Range Organics (C6-C10)	44.0	20.0	50.0		88.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.43		8.00		92.9	70-130			

Matrix Spike (2511073-MS2) Source: E503103-01 Prepared: 03/14/25 Analyzed: 03/14/25

Gasoline Range Organics (C6-C10)	41.0	20.0	50.0	ND	82.0	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.55		8.00		94.4	70-130			

Matrix Spike Dup (2511073-MSD2) Source: E503103-01 Prepared: 03/14/25 Analyzed: 03/14/25

Gasoline Range Organics (C6-C10)	48.1	20.0	50.0	ND	96.2	70-130	16.0	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.52		8.00		94.0	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/19/2025 10:22:48AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: AF

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2511078-BLK1)					Prepared: 03/14/25 Analyzed: 03/14/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	52.5		50.0		105	61-141			

LCS (2511078-BS1)					Prepared: 03/14/25 Analyzed: 03/14/25				
Diesel Range Organics (C10-C28)	244	25.0	250		97.5	66-144			
Surrogate: n-Nonane	52.7		50.0		105	61-141			

Matrix Spike (2511078-MS1)					Source: E503097-10		Prepared: 03/14/25 Analyzed: 03/18/25		
Diesel Range Organics (C10-C28)	21400	125	250	22900	NR	56-156			M4
Surrogate: n-Nonane	52.7		50.0		105	61-141			

Matrix Spike Dup (2511078-MSD1)					Source: E503097-10		Prepared: 03/14/25 Analyzed: 03/18/25		
Diesel Range Organics (C10-C28)	22800	125	250	22900	NR	56-156	6.37	20	M4
Surrogate: n-Nonane	52.6		50.0		105	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	3/19/2025 10:22:48AM

Anions by EPA 300.0/9056A

Analyst: DT

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

Blank (2511082-BLK1)					Prepared: 03/14/25 Analyzed: 03/14/25				
Chloride	ND	20.0							
LCS (2511082-BS1)					Prepared: 03/14/25 Analyzed: 03/14/25				
Chloride	254	20.0	250		102	90-110			
Matrix Spike (2511082-MS1)					Source: E503104-06		Prepared: 03/14/25 Analyzed: 03/14/25		
Chloride	510	20.0	250	278	92.7	80-120			
Matrix Spike Dup (2511082-MSD1)					Source: E503104-06		Prepared: 03/14/25 Analyzed: 03/14/25		
Chloride	529	20.0	250	278	100	80-120	3.66	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

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	03/19/25 10:22

- M4 Matrix spike recovery value is suspect since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS spike recovery was acceptable.
- 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.

Client: Devon Energy Production Company, LP				Bill To		Lab Use Only				TAT				EPA Program				
Project: TOMCAT 8 FEDERAL #001				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E 503 104		01058-0007					5 day TAT					
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220		Analysis and Method								RCRA				
City, State, Zip: Odessa, TX, 79765				Phone: 575-885-7502		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDGC TX	State				
Phone: 432-305-6415				Email: jim.raley@dmv.com										NM	CO	UT	AZ	TX
Email: NMTXGeoGroup@etechenv.com				WBS: 1061476201 - NM Permian Abandon														
Project #: 19305				Incident ID: nKL1622549584														
Collected by: Haleigh Blume																		
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number									Remarks				
11:33	03.12.25	S	1	BH05	1	0.5'								X				
11:36	03.12.25	S	1	BH05	2	1'								X				
11:39	03.12.25	S	1	BH06	3	0.5'								X				
11:42	03.12.25	S	1	BH06	4	1'								X				
11:52	03.12.25	S	1	BH07	5	0.5'								X				
11:55	03.12.25	S	1	BH07	6	1'								X				
11:58	03.12.25	S	1	BH08	7	0.5'								X				
12:01	03.12.25	S	1	BH08	8	1'								X				
12:10	03.12.25	S	1	BH09	9	0.5'								X				
12:15	03.12.25	S	1	BH09	10	1'								X				
Additional Instructions:																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action.										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.								
Sampled by: HB																		
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only										
Haleigh Blume		3-12-25	1520	Michelle Gonzales		3-12-24	1520	Received on ice: Y / N										
Michelle Gonzales		3-13-25	1700	John J.		3-13-25	1700	T1 T2 T3										
John J.		3-13-25	2300	Kuyuph D. Helel		3-14-25	0430	AVG Temp °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								
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 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.																		



Envirotech Analytical Laboratory

Printed: 3/14/2025 9:17:57AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	03/14/25 04:30	Work Order ID:	E503104
Phone:	(575) 748-0176	Date Logged In:	03/13/25 17:10	Logged In By:	Noe Soto
Email:	anna@etechnv.com	Due Date:	03/20/25 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the 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 sample received on ice? If yes, the recorded temp is 4°C, i.e., 6°±2°C? Yes

Note: Thermal preservation is not required, if samples are received w/i 15 minutes of sampling

13. If no visible ice, record the temperature. Actual sample temperature: 4°C

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC 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 non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
Sample ID? Yes
Date/Time Collected? Yes
Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

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

Date



envirotech Inc.

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 8 FEDERAL #001

Work Order: E504265

Job Number: 01058-0007

Received: 4/28/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/2/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 5/2/25



Anna Byers
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: TOMCAT 8 FEDERAL #001
Workorder: E504265
Date Received: 4/28/2025 6:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/28/2025 6:30:00AM, under the Project Name: TOMCAT 8 FEDERAL #001.

The analytical test results summarized in this report with the Project Name: TOMCAT 8 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 regarding 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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Cell: 775-287-1762
whinchman@envirotech-inc.com

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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH07 2'	5
BH07 3'	6
BH07 4'	7
QC Summary Data	8
QC - Volatile Organics by EPA 8021B	8
QC - Nonhalogenated Organics by EPA 8015D - GRO	9
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	10
QC - Anions by EPA 300.0/9056A	11
Definitions and Notes	12
Chain of Custody etc.	13

Sample Summary

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	05/02/25 08:29

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH07 2'	E504265-01A	Soil	04/24/25	04/28/25	Glass Jar, 2 oz.
BH07 3'	E504265-02A	Soil	04/24/25	04/28/25	Glass Jar, 2 oz.
BH07 4'	E504265-03A	Soil	04/24/25	04/28/25	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
5/2/2025 8:29:09AM

BH07 2'

E504265-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2518001	
Benzene	ND	0.0250	1	04/28/25	04/28/25	
Ethylbenzene	ND	0.0250	1	04/28/25	04/28/25	
Toluene	ND	0.0250	1	04/28/25	04/28/25	
o-Xylene	ND	0.0250	1	04/28/25	04/28/25	
p,m-Xylene	ND	0.0500	1	04/28/25	04/28/25	
Total Xylenes	ND	0.0250	1	04/28/25	04/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>		100 %	70-130	04/28/25	04/28/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2518001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/28/25	04/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>		92.1 %	70-130	04/28/25	04/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2518007	
Diesel Range Organics (C10-C28)	408	25.0	1	04/28/25	04/30/25	
Oil Range Organics (C28-C36)	825	50.0	1	04/28/25	04/30/25	
<i>Surrogate: n-Nonane</i>		87.1 %	61-141	04/28/25	04/30/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2518013	
Chloride	551	20.0	1	04/28/25	04/28/25	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
5/2/2025 8:29:09AM

BH07 3'

E504265-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2518001
Benzene	ND	0.0250	1	04/28/25	04/28/25	
Ethylbenzene	ND	0.0250	1	04/28/25	04/28/25	
Toluene	ND	0.0250	1	04/28/25	04/28/25	
o-Xylene	ND	0.0250	1	04/28/25	04/28/25	
p,m-Xylene	ND	0.0500	1	04/28/25	04/28/25	
Total Xylenes	ND	0.0250	1	04/28/25	04/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.9 %	70-130		04/28/25	04/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2518001
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/28/25	04/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	94.6 %	70-130		04/28/25	04/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518007
Diesel Range Organics (C10-C28)	ND	25.0	1	04/28/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/28/25	04/30/25	
<i>Surrogate: n-Nonane</i>						
	84.9 %	61-141		04/28/25	04/30/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2518013
Chloride	915	20.0	1	04/28/25	04/28/25	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
5/2/2025 8:29:09AM

BH07 4'

E504265-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2518001
Benzene	ND	0.0250	1	04/28/25	04/28/25	
Ethylbenzene	ND	0.0250	1	04/28/25	04/28/25	
Toluene	ND	0.0250	1	04/28/25	04/28/25	
o-Xylene	ND	0.0250	1	04/28/25	04/28/25	
p,m-Xylene	ND	0.0500	1	04/28/25	04/28/25	
Total Xylenes	ND	0.0250	1	04/28/25	04/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.5 %	70-130		04/28/25	04/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2518001
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/28/25	04/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.1 %	70-130		04/28/25	04/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518007
Diesel Range Organics (C10-C28)	ND	25.0	1	04/28/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/28/25	04/30/25	
<i>Surrogate: n-Nonane</i>						
	84.9 %	61-141		04/28/25	04/30/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2518013
Chloride	533	20.0	1	04/28/25	04/28/25	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/2/2025 8:29:09AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2518001-BLK1)

Prepared: 04/28/25 Analyzed: 04/28/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			

LCS (2518001-BS1)

Prepared: 04/28/25 Analyzed: 04/28/25

Benzene	4.10	0.0250	5.00		82.1	70-130			
Ethylbenzene	4.04	0.0250	5.00		80.8	70-130			
Toluene	4.09	0.0250	5.00		81.8	70-130			
o-Xylene	4.08	0.0250	5.00		81.5	70-130			
p,m-Xylene	8.10	0.0500	10.0		81.0	70-130			
Total Xylenes	12.2	0.0250	15.0		81.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.16		8.00		102	70-130			

Matrix Spike (2518001-MS1)

Source: E504265-01

Prepared: 04/28/25 Analyzed: 04/28/25

Benzene	5.22	0.0250	5.00	ND	104	70-130			
Ethylbenzene	5.15	0.0250	5.00	ND	103	70-130			
Toluene	5.21	0.0250	5.00	ND	104	70-130			
o-Xylene	5.13	0.0250	5.00	ND	103	70-130			
p,m-Xylene	10.3	0.0500	10.0	ND	103	70-130			
Total Xylenes	15.4	0.0250	15.0	ND	103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.10		8.00		101	70-130			

Matrix Spike Dup (2518001-MSD1)

Source: E504265-01

Prepared: 04/28/25 Analyzed: 04/28/25

Benzene	4.72	0.0250	5.00	ND	94.4	70-130	10.0	27	
Ethylbenzene	4.66	0.0250	5.00	ND	93.3	70-130	10.0	26	
Toluene	4.71	0.0250	5.00	ND	94.2	70-130	10.1	20	
o-Xylene	4.66	0.0250	5.00	ND	93.1	70-130	9.76	25	
p,m-Xylene	9.32	0.0500	10.0	ND	93.2	70-130	9.91	23	
Total Xylenes	14.0	0.0250	15.0	ND	93.2	70-130	9.86	26	
Surrogate: 4-Bromochlorobenzene-PID	7.99		8.00		99.9	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/2/2025 8:29:09AM

Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2518001-BLK1) Prepared: 04/28/25 Analyzed: 04/28/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.96		8.00		99.5	70-130			

LCS (2518001-BS2) Prepared: 04/28/25 Analyzed: 04/28/25

Gasoline Range Organics (C6-C10)	46.3	20.0	50.0		92.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			

Matrix Spike (2518001-MS2) Source: E504265-01 Prepared: 04/28/25 Analyzed: 04/28/25

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0	ND	92.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			

Matrix Spike Dup (2518001-MSD2) Source: E504265-01 Prepared: 04/28/25 Analyzed: 04/28/25

Gasoline Range Organics (C6-C10)	48.9	20.0	50.0	ND	97.8	70-130	5.29	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.63		8.00		82.9	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/2/2025 8:29:09AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2518007-BLK1)					Prepared: 04/28/25 Analyzed: 04/30/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	40.5		50.0		81.0	61-141			

LCS (2518007-BS1)					Prepared: 04/28/25 Analyzed: 04/30/25				
Diesel Range Organics (C10-C28)	215	25.0	250		85.8	66-144			
Surrogate: n-Nonane	41.8		50.0		83.7	61-141			

Matrix Spike (2518007-MS1)					Source: E504266-02		Prepared: 04/28/25 Analyzed: 04/30/25		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.8	56-156			
Surrogate: n-Nonane	41.6		50.0		83.2	61-141			

Matrix Spike Dup (2518007-MSD1)					Source: E504266-02		Prepared: 04/28/25 Analyzed: 04/30/25		
Diesel Range Organics (C10-C28)	241	25.0	250	ND	96.5	56-156	6.07	20	
Surrogate: n-Nonane	42.4		50.0		84.9	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/2/2025 8:29:09AM

Anions by EPA 300.0/9056A

Analyst: RAS

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

Blank (2518013-BLK1)					Prepared: 04/28/25 Analyzed: 04/28/25				
Chloride	ND	20.0							
LCS (2518013-BS1)					Prepared: 04/28/25 Analyzed: 04/28/25				
Chloride	255	20.0	250		102	90-110			
Matrix Spike (2518013-MS1)					Source: E504263-02		Prepared: 04/28/25 Analyzed: 04/28/25		
Chloride	267	20.0	250	ND	107	80-120			
Matrix Spike Dup (2518013-MSD1)					Source: E504263-02		Prepared: 04/28/25 Analyzed: 04/28/25		
Chloride	266	20.0	250	ND	106	80-120	0.313	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

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	05/02/25 08:29

- 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.

envirotech

Envirotech Analytical Laboratory

Printed: 4/28/2025 9:17:18AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	04/28/25 06:30	Work Order ID:	E504265
Phone:	(575) 748-0176	Date Logged In:	04/25/25 15:12	Logged In By:	Caitlin Mars
Email:	anna@etechnv.com	Due Date:	05/02/25 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the 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 sample received on ice? Yes

Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC 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 non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

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

Date



envirotech Inc.

Report to:
Anna Byers



envirotech

Practical Solutions for a Better Tomorrow

Analytical Report

Devon Energy - Carlsbad

Project Name: TOMCAT 8 FEDERAL #001

Work Order: E504266

Job Number: 01058-0007

Received: 4/28/2025

Revision: 1

Report Reviewed By:

Walter Hinchman
Laboratory Director
5/2/25

5796 U.S. Hwy 64
Farmington, NM 87401

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



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: 5/2/25



Anna Byers
6488 7 Rivers Hwy
Artesia, NM 88210

Project Name: TOMCAT 8 FEDERAL #001
Workorder: E504266
Date Received: 4/28/2025 6:30:00AM

Anna Byers,

Thank you for choosing Envirotech, Inc. as your analytical testing laboratory for the sample(s) received on, 4/28/2025 6:30:00AM, under the Project Name: TOMCAT 8 FEDERAL #001.

The analytical test results summarized in this report with the Project Name: TOMCAT 8 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 regarding 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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Table of Contents

Title Page	1
Cover Page	2
Table of Contents	3
Sample Summary	4
Sample Data	5
BH10 0.5'	5
BH10 1'	6
BH11 0.5'	7
BH11 1'	8
BH12 0.5'	9
BH12 1'	10
QC Summary Data	11
QC - Volatile Organics by EPA 8021B	11
QC - Nonhalogenated Organics by EPA 8015D - GRO	12
QC - Nonhalogenated Organics by EPA 8015D - DRO/ORO	13
QC - Anions by EPA 300.0/9056A	14
Definitions and Notes	15
Chain of Custody etc.	16

Sample Summary

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	05/02/25 08:30

Client Sample ID	Lab Sample ID	Matrix	Sampled	Received	Container
BH10 0.5'	E504266-01A	Soil	04/24/25	04/28/25	Glass Jar, 2 oz.
BH10 1'	E504266-02A	Soil	04/24/25	04/28/25	Glass Jar, 2 oz.
BH11 0.5'	E504266-03A	Soil	04/24/25	04/28/25	Glass Jar, 2 oz.
BH11 1'	E504266-04A	Soil	04/24/25	04/28/25	Glass Jar, 2 oz.
BH12 0.5'	E504266-05A	Soil	04/24/25	04/28/25	Glass Jar, 2 oz.
BH12 1'	E504266-06A	Soil	04/24/25	04/28/25	Glass Jar, 2 oz.



Sample Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported: 5/2/2025 8:30:53AM
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	

BH10 0.5'

E504266-01

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B	mg/kg	mg/kg	Analyst: SL		Batch: 2518001	
Benzene	ND	0.0250	1	04/28/25	04/28/25	
Ethylbenzene	ND	0.0250	1	04/28/25	04/28/25	
Toluene	ND	0.0250	1	04/28/25	04/28/25	
o-Xylene	ND	0.0250	1	04/28/25	04/28/25	
p,m-Xylene	ND	0.0500	1	04/28/25	04/28/25	
Total Xylenes	ND	0.0250	1	04/28/25	04/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>	96.1 %	70-130		04/28/25	04/28/25	
Nonhalogenated Organics by EPA 8015D - GRO	mg/kg	mg/kg	Analyst: SL		Batch: 2518001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/28/25	04/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>	87.1 %	70-130		04/28/25	04/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO	mg/kg	mg/kg	Analyst: KH		Batch: 2518007	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/28/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/28/25	04/30/25	
<i>Surrogate: n-Nonane</i>	83.8 %	61-141		04/28/25	04/30/25	
Anions by EPA 300.0/9056A	mg/kg	mg/kg	Analyst: RAS		Batch: 2518025	
Chloride	254	20.0	1	04/28/25	04/29/25	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
5/2/2025 8:30:53AM

BH10 1'

E504266-02

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2518001
Benzene	ND	0.0250	1	04/28/25	04/28/25	
Ethylbenzene	ND	0.0250	1	04/28/25	04/28/25	
Toluene	ND	0.0250	1	04/28/25	04/28/25	
o-Xylene	ND	0.0250	1	04/28/25	04/28/25	
p,m-Xylene	ND	0.0500	1	04/28/25	04/28/25	
Total Xylenes	ND	0.0250	1	04/28/25	04/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	97.8 %	70-130		04/28/25	04/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2518001
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/28/25	04/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	99.5 %	70-130		04/28/25	04/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518007
Diesel Range Organics (C10-C28)	ND	25.0	1	04/28/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/28/25	04/30/25	
<i>Surrogate: n-Nonane</i>						
	81.8 %	61-141		04/28/25	04/30/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2518025
Chloride	120	20.0	1	04/28/25	04/29/25	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
5/2/2025 8:30:53AM

BH11 0.5'

E504266-03

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2518001
Benzene	ND	0.0250	1	04/28/25	04/28/25	
Ethylbenzene	ND	0.0250	1	04/28/25	04/28/25	
Toluene	ND	0.0250	1	04/28/25	04/28/25	
o-Xylene	ND	0.0250	1	04/28/25	04/28/25	
p,m-Xylene	ND	0.0500	1	04/28/25	04/28/25	
Total Xylenes	ND	0.0250	1	04/28/25	04/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.1 %	70-130		04/28/25	04/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2518001
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/28/25	04/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.8 %	70-130		04/28/25	04/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518007
Diesel Range Organics (C10-C28)	ND	25.0	1	04/28/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/28/25	04/30/25	
<i>Surrogate: n-Nonane</i>						
	87.2 %	61-141		04/28/25	04/30/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2518025
Chloride	192	20.0	1	04/28/25	04/29/25	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
5/2/2025 8:30:53AM

BH11 1'

E504266-04

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg		Analyst: SL		Batch: 2518001
Benzene	ND	0.0250	1	04/28/25	04/28/25	
Ethylbenzene	ND	0.0250	1	04/28/25	04/28/25	
Toluene	ND	0.0250	1	04/28/25	04/28/25	
o-Xylene	ND	0.0250	1	04/28/25	04/28/25	
p,m-Xylene	ND	0.0500	1	04/28/25	04/28/25	
Total Xylenes	ND	0.0250	1	04/28/25	04/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	98.5 %	70-130		04/28/25	04/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg		Analyst: SL		Batch: 2518001
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/28/25	04/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	85.5 %	70-130		04/28/25	04/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg		Analyst: KH		Batch: 2518007
Diesel Range Organics (C10-C28)	ND	25.0	1	04/28/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/28/25	04/30/25	
<i>Surrogate: n-Nonane</i>						
	84.7 %	61-141		04/28/25	04/30/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg		Analyst: RAS		Batch: 2518025
Chloride	259	20.0	1	04/28/25	04/29/25	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
5/2/2025 8:30:53AM

BH12 0.5'

E504266-05

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518001	
Benzene	ND	0.0250	1	04/28/25	04/28/25	
Ethylbenzene	ND	0.0250	1	04/28/25	04/28/25	
Toluene	ND	0.0250	1	04/28/25	04/28/25	
o-Xylene	ND	0.0250	1	04/28/25	04/28/25	
p,m-Xylene	ND	0.0500	1	04/28/25	04/28/25	
Total Xylenes	ND	0.0250	1	04/28/25	04/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
	99.5 %	70-130		04/28/25	04/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/28/25	04/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
	93.7 %	70-130		04/28/25	04/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2518007	
Diesel Range Organics (C10-C28)	ND	25.0	1	04/28/25	04/30/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/28/25	04/30/25	
<i>Surrogate: n-Nonane</i>						
	85.2 %	61-141		04/28/25	04/30/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2518025	
Chloride	60.4	20.0	1	04/28/25	04/29/25	



Sample Data

Devon Energy - Carlsbad
6488 7 Rivers Hwy
Artesia NM, 88210

Project Name: TOMCAT 8 FEDERAL #001
Project Number: 01058-0007
Project Manager: Anna Byers

Reported:
5/2/2025 8:30:53AM

BH12 1'

E504266-06

Analyte	Result	Reporting Limit	Dilution	Prepared	Analyzed	Notes
Volatile Organics by EPA 8021B						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518001	
Benzene	ND	0.0250	1	04/28/25	04/28/25	
Ethylbenzene	ND	0.0250	1	04/28/25	04/28/25	
Toluene	ND	0.0250	1	04/28/25	04/28/25	
o-Xylene	ND	0.0250	1	04/28/25	04/28/25	
p,m-Xylene	ND	0.0500	1	04/28/25	04/28/25	
Total Xylenes	ND	0.0250	1	04/28/25	04/28/25	
<i>Surrogate: 4-Bromochlorobenzene-PID</i>						
		101 %	70-130	04/28/25	04/28/25	
Nonhalogenated Organics by EPA 8015D - GRO						
	mg/kg	mg/kg	Analyst: SL		Batch: 2518001	
Gasoline Range Organics (C6-C10)	ND	20.0	1	04/28/25	04/28/25	
<i>Surrogate: 1-Chloro-4-fluorobenzene-FID</i>						
		95.1 %	70-130	04/28/25	04/28/25	
Nonhalogenated Organics by EPA 8015D - DRO/ORO						
	mg/kg	mg/kg	Analyst: KH		Batch: 2518007	
Diesel Range Organics (C10-C28)	29.0	25.0	1	04/28/25	04/29/25	
Oil Range Organics (C28-C36)	ND	50.0	1	04/28/25	04/29/25	
<i>Surrogate: n-Nonane</i>						
		87.9 %	61-141	04/28/25	04/29/25	
Anions by EPA 300.0/9056A						
	mg/kg	mg/kg	Analyst: RAS		Batch: 2518025	
Chloride	308	20.0	1	04/28/25	04/29/25	



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/2/2025 8:30:53AM

Volatile Organics by EPA 8021B

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2518001-BLK1)

Prepared: 04/28/25 Analyzed: 04/28/25

Benzene	ND	0.0250							
Ethylbenzene	ND	0.0250							
Toluene	ND	0.0250							
o-Xylene	ND	0.0250							
p,m-Xylene	ND	0.0500							
Total Xylenes	ND	0.0250							
Surrogate: 4-Bromochlorobenzene-PID	7.80		8.00		97.5	70-130			

LCS (2518001-BS1)

Prepared: 04/28/25 Analyzed: 04/28/25

Benzene	4.10	0.0250	5.00		82.1	70-130			
Ethylbenzene	4.04	0.0250	5.00		80.8	70-130			
Toluene	4.09	0.0250	5.00		81.8	70-130			
o-Xylene	4.08	0.0250	5.00		81.5	70-130			
p,m-Xylene	8.10	0.0500	10.0		81.0	70-130			
Total Xylenes	12.2	0.0250	15.0		81.2	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.16		8.00		102	70-130			

Matrix Spike (2518001-MS1)

Source: E504265-01

Prepared: 04/28/25 Analyzed: 04/28/25

Benzene	5.22	0.0250	5.00	ND	104	70-130			
Ethylbenzene	5.15	0.0250	5.00	ND	103	70-130			
Toluene	5.21	0.0250	5.00	ND	104	70-130			
o-Xylene	5.13	0.0250	5.00	ND	103	70-130			
p,m-Xylene	10.3	0.0500	10.0	ND	103	70-130			
Total Xylenes	15.4	0.0250	15.0	ND	103	70-130			
Surrogate: 4-Bromochlorobenzene-PID	8.10		8.00		101	70-130			

Matrix Spike Dup (2518001-MSD1)

Source: E504265-01

Prepared: 04/28/25 Analyzed: 04/28/25

Benzene	4.72	0.0250	5.00	ND	94.4	70-130	10.0	27	
Ethylbenzene	4.66	0.0250	5.00	ND	93.3	70-130	10.0	26	
Toluene	4.71	0.0250	5.00	ND	94.2	70-130	10.1	20	
o-Xylene	4.66	0.0250	5.00	ND	93.1	70-130	9.76	25	
p,m-Xylene	9.32	0.0500	10.0	ND	93.2	70-130	9.91	23	
Total Xylenes	14.0	0.0250	15.0	ND	93.2	70-130	9.86	26	
Surrogate: 4-Bromochlorobenzene-PID	7.99		8.00		99.9	70-130			



QC Summary Data

Devon Energy - Carlsbad 6488 7 Rivers Hwy Artesia NM, 88210	Project Name: TOMCAT 8 FEDERAL #001 Project Number: 01058-0007 Project Manager: Anna Byers	Reported: 5/2/2025 8:30:53AM
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Nonhalogenated Organics by EPA 8015D - GRO

Analyst: SL

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2518001-BLK1)

Prepared: 04/28/25 Analyzed: 04/28/25

Gasoline Range Organics (C6-C10)	ND	20.0							
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.96		8.00		99.5	70-130			

LCS (2518001-BS2)

Prepared: 04/28/25 Analyzed: 04/28/25

Gasoline Range Organics (C6-C10)	46.3	20.0	50.0		92.6	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.73		8.00		96.6	70-130			

Matrix Spike (2518001-MS2)

Source: E504265-01

Prepared: 04/28/25 Analyzed: 04/28/25

Gasoline Range Organics (C6-C10)	46.4	20.0	50.0	ND	92.8	70-130			
Surrogate: 1-Chloro-4-fluorobenzene-FID	7.59		8.00		94.9	70-130			

Matrix Spike Dup (2518001-MSD2)

Source: E504265-01

Prepared: 04/28/25 Analyzed: 04/28/25

Gasoline Range Organics (C6-C10)	48.9	20.0	50.0	ND	97.8	70-130	5.29	20	
Surrogate: 1-Chloro-4-fluorobenzene-FID	6.63		8.00		82.9	70-130			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/2/2025 8:30:53AM

Nonhalogenated Organics by EPA 8015D - DRO/ORO

Analyst: KH

Analyte	Result mg/kg	Reporting Limit mg/kg	Spike Level mg/kg	Source Result mg/kg	Rec %	Rec Limits %	RPD %	RPD Limit %	Notes
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Blank (2518007-BLK1)					Prepared: 04/28/25 Analyzed: 04/30/25				
Diesel Range Organics (C10-C28)	ND	25.0							
Oil Range Organics (C28-C36)	ND	50.0							
Surrogate: n-Nonane	40.5		50.0		81.0	61-141			

LCS (2518007-BS1)					Prepared: 04/28/25 Analyzed: 04/30/25				
Diesel Range Organics (C10-C28)	215	25.0	250		85.8	66-144			
Surrogate: n-Nonane	41.8		50.0		83.7	61-141			

Matrix Spike (2518007-MS1)					Source: E504266-02		Prepared: 04/28/25 Analyzed: 04/30/25		
Diesel Range Organics (C10-C28)	227	25.0	250	ND	90.8	56-156			
Surrogate: n-Nonane	41.6		50.0		83.2	61-141			

Matrix Spike Dup (2518007-MSD1)					Source: E504266-02		Prepared: 04/28/25 Analyzed: 04/30/25		
Diesel Range Organics (C10-C28)	241	25.0	250	ND	96.5	56-156	6.07	20	
Surrogate: n-Nonane	42.4		50.0		84.9	61-141			



QC Summary Data

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	Reported:
6488 7 Rivers Hwy	Project Number:	01058-0007	
Artesia NM, 88210	Project Manager:	Anna Byers	5/2/2025 8:30:53AM

Anions by EPA 300.0/9056A

Analyst: RAS

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

Blank (2518025-BLK1)					Prepared: 04/28/25 Analyzed: 04/29/25				
Chloride	ND	20.0							
LCS (2518025-BS1)					Prepared: 04/28/25 Analyzed: 04/29/25				
Chloride	256	20.0	250		103	90-110			
Matrix Spike (2518025-MS1)					Source: E504266-03		Prepared: 04/28/25 Analyzed: 04/29/25		
Chloride	449	20.0	250	192	103	80-120			
Matrix Spike Dup (2518025-MSD1)					Source: E504266-03		Prepared: 04/28/25 Analyzed: 04/29/25		
Chloride	466	20.0	250	192	110	80-120	3.73	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

Devon Energy - Carlsbad	Project Name:	TOMCAT 8 FEDERAL #001	
6488 7 Rivers Hwy	Project Number:	01058-0007	Reported:
Artesia NM, 88210	Project Manager:	Anna Byers	05/02/25 08:30

- 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

Chain of Custody

Client: Devon Energy Production Company, LP				Bill To		Lab Use Only				TAT				EPA Program				
Project: TOMCAT 8 FEDERAL #001				Attention: Jim Raley		Lab WO#		Job Number		1D	2D	3D	Standard	CWA	SDWA			
Project Manager: Anna Byers				Address: 5315 Buena Vista Dr.		E204260		61058-007					5 day TAT					
Address: 13000 W County Rd 100				City, State, Zip: Carlsbad, NM, 88220		Analysis and Method										RCRA		
City, State, Zip: Odessa, TX, 79765				Phone: 575-885-7502		Depth (ft.)	TPH GRO/DRO/ORO by 8015	BTEX by 8021	VOC by 8260	Metals 6010	Chloride 300.0	BGDOC NM	GDOC TX	State				
Phone: 432-305-6415				Email: jim.raley@dnv.com										NM	CO	UT	AZ	TX
Email: NMTXGeoGroup@etechnv.com				WBS: 1061476201 - NM Permian Abandon														
Project #: 19305				Incident ID: nKL1622549584														
Collected by: Haleigh Blume														Remarks				
Time Sampled	Date Sampled	Matrix	No. of Containers	Sample ID	Lab Number													
10:55	04.24.25	S	1	BH10	1	0.5'							X		4.5			
11:00	04.24.25	S	1	BH10	2	1'							X		2.9			
11:05	04.24.25	S	1	BH11	3	0.5'							X		5.2			
11:10	04.24.25	S	1	BH11	4	1'							X		4.7			
11:30	04.24.25	S	1	BH12	5	0.5'							X		5.1			
11:35	04.24.25	S	1	BH12	6	1'							X		4.7			
Additional Instructions:																		
I, (field sampler), attest to the validity and authenticity of this sample. I am aware that tampering with or intentionally mislabelling the sample location, date or time of collection is considered fraud and may be grounds for legal action. Sampled by: HB										Samples requiring thermal preservation must be received on ice the day they are sampled or received packed in ice at an avg temp above 0 but less than 6 °C on subsequent days.								
Relinquished by: (Signature)		Date	Time	Received by: (Signature)		Date	Time	Lab Use Only										
Michelle Gonzales		04/24/25		Michelle Gonzales		4-24-25	1800	Received on ice: (Y) / N										
Michelle Gonzales		4-25-25	1520	John M.		4-25-25	1600	T1 T2 T3										
John M.		4-25-25	2300	Aitlinn Mann		4-28-25	1030	AVG Temp °C										
Sample Matrix: S - Soil, Sd - Solid, Sg - Sludge, A - Aqueous, O - Other										Container Type: g - glass, p - poly/plastic, ag - amber 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 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.																		



envirotech

Envirotech Analytical Laboratory

Printed: 4/28/2025 9:19:15AM

Sample Receipt Checklist (SRC)

Instructions: Please take note of any NO checkmarks.

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

Client:	Devon Energy - Carlsbad	Date Received:	04/28/25 06:30	Work Order ID:	E504266
Phone:	(575) 748-0176	Date Logged In:	04/25/25 15:18	Logged In By:	Caitlin Mars
Email:	anna@etechnv.com	Due Date:	05/02/25 17:00 (4 day TAT)		

Chain of Custody (COC)

1. Does the sample ID match the COC? Yes
2. Does the number of samples per sampling site location match the COC? Yes
3. Were samples dropped off by client or carrier? Yes
4. Was the COC complete, i.e., signatures, dates/times, requested analyses? Yes
5. Were all samples received within holding time? Yes

Note: Analysis, such as pH which should be conducted in the field, i.e., 15 minute hold time, are not included in this discussion.

Carrier: CourierComments/ResolutionSample Turn Around Time (TAT)

6. Did the COC indicate standard TAT, or Expedited TAT? Yes

Sample Cooler

7. Was a sample cooler received? Yes
8. If yes, was cooler received in good condition? Yes
9. Was the 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 sample received on ice? Yes

Note: Thermal preservation is not required, if samples are received within 15 minutes of sampling

13. See COC for individual sample temps. Samples outside of 0°C-6°C will be recorded in comments.

Sample Container

14. Are aqueous VOC samples present? No
15. Are VOC 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 non-VOC samples collected in the correct containers? Yes
19. Is the appropriate volume/weight or number of sample containers collected? Yes

Field Label

20. Were field sample labels filled out with the minimum information:
 - Sample ID? Yes
 - Date/Time Collected? Yes
 - Collectors name? Yes

Sample Preservation

21. Does the COC or field labels indicate the samples were preserved? No
22. Are sample(s) correctly preserved? NA
24. Is lab filtration required and/or requested for dissolved metals? No

Multiphase Sample Matrix

26. Does the sample have more than one phase, i.e., multiphase? No
27. If yes, does the COC specify which phase(s) is to be analyzed? NA

Subcontract Laboratory

28. Are samples required to get sent to a subcontract laboratory? No
29. Was a subcontract laboratory specified by the client and if so who? NA Subcontract Lab: NA

Client Instruction

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

Date



envirotech Inc.

APPENDIX G

Correspondence & Notifications

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 439994

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 439994
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nKL1622549584
Incident Name	NKL1622549584 2016 MINOR A SWS @ 30-025-38367
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-38367] TOMCAT 8 FEDERAL #001

Location of Release Source	
Site Name	Unavailable.
Date Release Discovered	08/04/2016
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	400
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	03/11/2025
Time sampling will commence	07:00 AM
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 intersection Red Rd and Mills Ranch Rd, head east for 0.4 miles, continue onto Mills Ranch Rd for 1.5 miles, continue straight for 1.7 miles.

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

CONDITIONS

Action 439994

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 439994
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jralej	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.	3/6/2025

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 440000

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 440000
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nKL1622549584
Incident Name	NKL1622549584 2016 MINOR A SWS @ 30-025-38367
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-38367] TOMCAT 8 FEDERAL #001

Location of Release Source	
Site Name	Unavailable.
Date Release Discovered	08/04/2016
Surface Owner	Federal

Sampling Event General Information	
Please answer all the questions in this group.	
What is the sampling surface area in square feet	400
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	03/12/2025
Time sampling will commence	07:00 AM
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 intersection Red Rd and Mills Ranch Rd, head east for 0.4 miles, continue onto Mills Ranch Rd for 1.5 miles, continue straight for 1.7 miles.

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

CONDITIONS

Action 440000

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 440000
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jralej	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.	3/6/2025

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

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/ocd/contact-us>

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

QUESTIONS

Action 452883

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 452883
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

QUESTIONS

Prerequisites	
Incident ID (n#)	nKL1622549584
Incident Name	NKL1622549584 TOMCAT 8 FEDERAL #001 @ 30-025-38367
Incident Type	Produced Water Release
Incident Status	Initial C-141 Approved
Incident Well	[30-025-38367] TOMCAT 8 FEDERAL #001

Location of Release Source	
Site Name	TOMCAT 8 FEDERAL #001
Date Release Discovered	08/04/2016
Surface Owner	Federal

Sampling Event General Information	
<i>Please answer all the questions in this group.</i>	
What is the sampling surface area in square feet	400
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	04/24/2025
Time sampling will commence	07:00 AM
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 intersection Red Rd and Mills Ranch Rd, head east for 0.4 miles, continue onto Mills Ranch Rd for 1.5 miles, continue straight for 1.7 miles.

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

CONDITIONS

Action 452883

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 452883
	Action Type: [NOTIFY] Notification Of Sampling (C-141N)

CONDITIONS

Created By	Condition	Condition Date
jralej	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.	4/16/2025

Erick Herrera

From: Wells, Shelly, EMNRD <Shelly.Wells@emnrd.nm.gov>
Sent: Wednesday, April 2, 2025 5:15 PM
To: Abe Valladares
Cc: Raley, Jim; camorgan@blm.gov; NM TX Geo Group; Bratcher, Michael, EMNRD
Subject: RE: [EXTERNAL] Devon Characterization Variance Request - Tomcat 8 Federal 1 (nKL1622549584)

Good afternoon Abe,

The depth to groundwater variance request to use C-04815 POD data is approved and therefore this release may be remediated to Table 1 51 feet-100 feet Closure Criteria. OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, or local laws/regulations. Please include a copy of this variance request 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: Abe Valladares <abevalladares@etechenv.com>
Sent: Wednesday, April 2, 2025 3:22 PM
To: Enviro, OCD, EMNRD <OCD.Enviro@emnrd.nm.gov>
Cc: Raley, Jim <jim.rale@dmn.com>; camorgan@blm.gov; NM TX Geo Group <NMTXGeoGroup@etechenv.com>
Subject: [EXTERNAL] Devon Characterization Variance Request - Tomcat 8 Federal 1 (nKL1622549584)

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 8 Federal 1 (Site) for Incident Number (nKL1622549584) for your review. This request proposes to utilize a Table I depth to ground water (DTW) greater than 55 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.

Thank you,



Abraham Valladares

Project Coordinator

Etech Environmental & Safety Solutions, Inc.

C: (432) 967-9624

APPENDIX H

Approved Characterization Variance Request



CHARACTERIZATION VARIANCE REQUEST

Prepared For:

Devon Energy Production Company, LP

5315 Buena Vista Dr.

Carlsbad, NM 88220

Site Information:

Tomcat 8 Federal 1

Incident Number nKL1622549584

Unit P, Section 08, Township 23 South, Range 32 East

Lea County, New Mexico

(32.3143768°, -103.690033°)

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 8 Federal 1 (Site) location. 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 drive remediation efforts based on the regional depth to groundwater assessment.

SITE BACKGROUND

The Site is associated with oil and gas exploration and production operations and intersects both State Land managed by the New Mexico State Land Office (NMSLO), and Federal Land managed by the Bureau of Land Management (BLM) surface boundaries. The subject release occurred in Unit P, Section 08, Township 23 South, Range 32 East, in Lea County, New Mexico (32.3143768°, -103.690033°) (**Figure 1 in Appendix A**), as provided on a Corrective Action Form C-141 (Form C-141). On August 4, 2016, a ¼-inch nipple on a flowline appeared to have been damaged by a cow and resulted in approximately 6 barrels (bbls) of produced water to be released onto the pad. 5 bbls were able to be recovered via vacuum truck. Devon immediately notified the New Mexico Oil and Conservation Division (NMOCD) via email on August 4, 2016, and reported the release on a Form C-141, which was received by the NMOCD August 12, 2016, and was assigned Incident Number nKL1622549584. The pad was subsequently plugged and abandoned then reclaimed in March 2017.

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 (Vision) for Devon on April 16, 2024, located approximately 0.58 miles west of the Site (**Figure 1A in Appendix A**). The boring was assigned NMOSE file number C-04815-POD1. 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 nor after the 72-hour observation period. Following the observation period, the boring was plugged and abandoned per the appropriate NMOSE regulations. The boring log and plugging record 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 55 feet bgs. The next closest permitted boring with recent depth to groundwater data is NMOSE permitted boring C-04712-POD2, located approximately 1.06 miles south of the Site. The boring was advanced to a total depth of 55 feet bgs on March 9, 2023. No fluids were observed through the drilling process, or after the 72-hr observation period. The next closest well with recent available data is NMOSE permitted boring C-04889-POD1, located 1.56 miles southeast of the Site. The boring was advanced to a total depth of 105 feet bgs on October 21, 2024. No fluids were observed through the drilling process, or after the 72-hr observation period. Based on the desktop well review, a total of 15 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.

Additional wells and/or soil borings with recent depth to groundwater data supporting a regional depth to groundwater greater than 55 feet bgs exist within the same 5-mile radius of the Site. 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 conservative estimated depth to groundwater at the Site, Devon proposes the following Closure Criteria:

Constituents of Concern (COCs)	Laboratory Analytical Method	Closure Criteria [†]
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 or EPA 8260B	10 mg/kg
Benzene, Toluene, Ethylbenzene, Total Xylenes (BTEX)	EPA 8021B or EPA 8260B	50 mg/kg

[†]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 0.58 miles, which is 0.08 miles (423 feet) outside the NMOC accepted buffer for depth to groundwater determination for Site Characterization. If a boring were to be advanced within a 0.5-mile of the Site, depth to groundwater is anticipated to be greater than 100 feet bgs based on regional depth to groundwater data. Scheduling a soil boring would likely increase the timeline for remediation due to the permitting process and the limited availability of drillers.

Devon believes this proposed variance to accept NMOSE permitted boring C-04889 POD 1 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 Herrera at (432) 305-6416 or erick@etechenv.com or Joseph S. Hernandez at (432) 305-6413 or joseph@etechenv.com.

Sincerely,

Characterization Variance Request
Tomcat 8 Federal 1
Incident Number nKL1622549584

Etech Environmental and Safety Solutions, Inc.



Erick Herrera
Project Geologist



Joseph S. Hernandez
Senior Managing Geologist

cc: Jim Raley, Devon
New Mexico Oil Conservation Division
Bureau of Land Management
New Mexico State Land Office

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

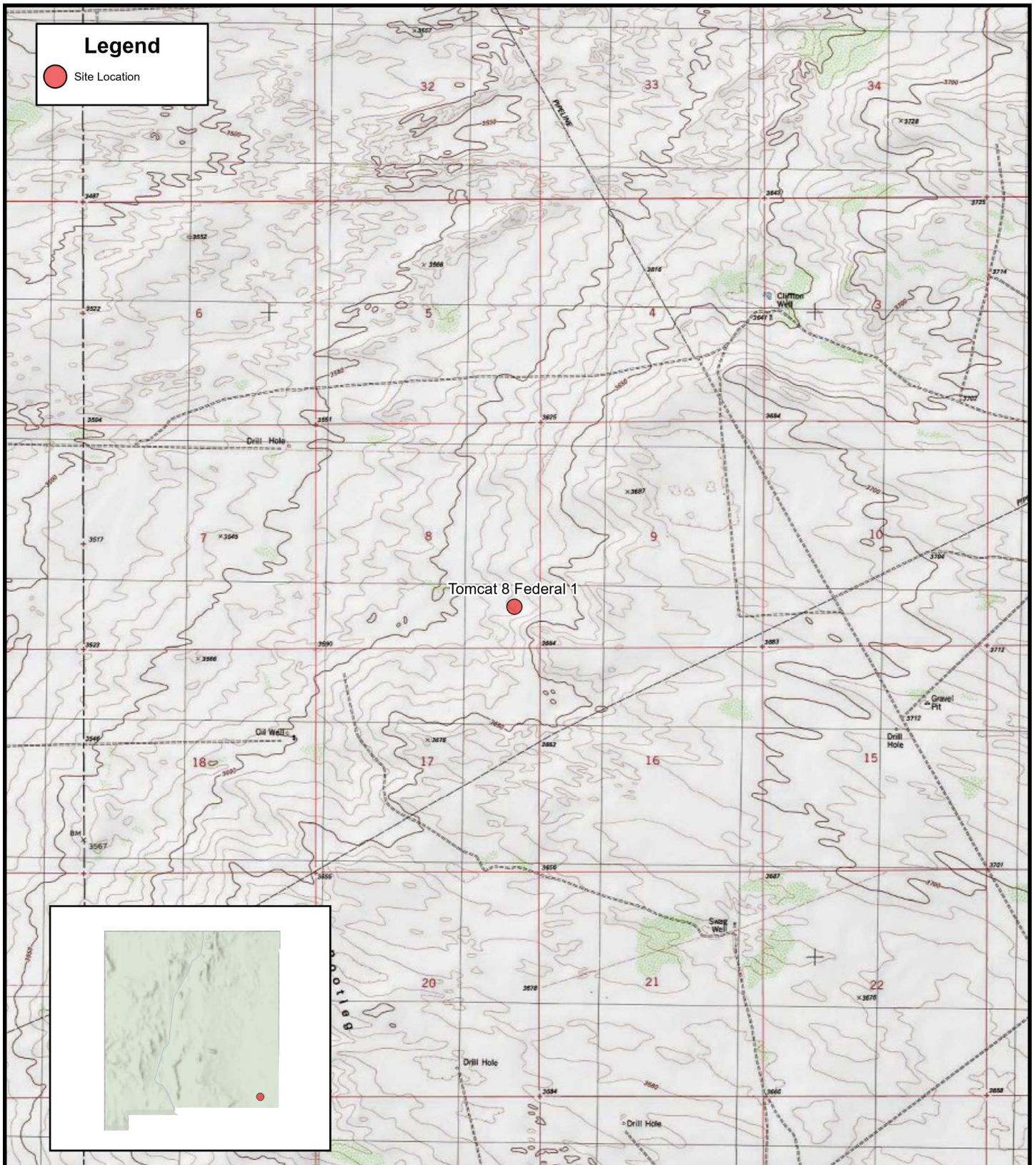


FIGURE 1

Site Location Map

Devon Energy Production Company, LP
Tomcat 8 Federal 1
Unit P Sec 08 T23S R32E
Lea County, New Mexico



0 2,000 4,000 Feet

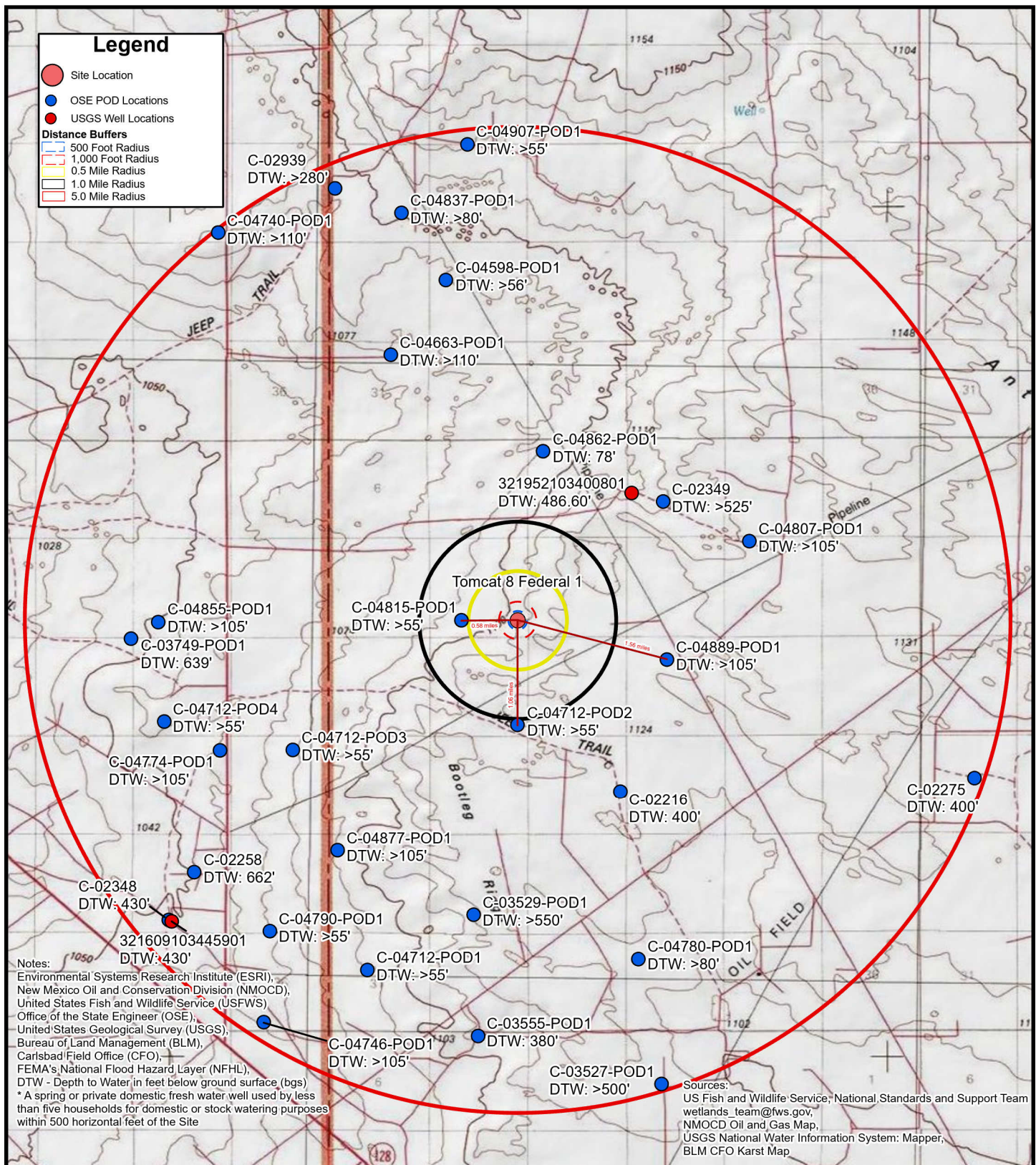
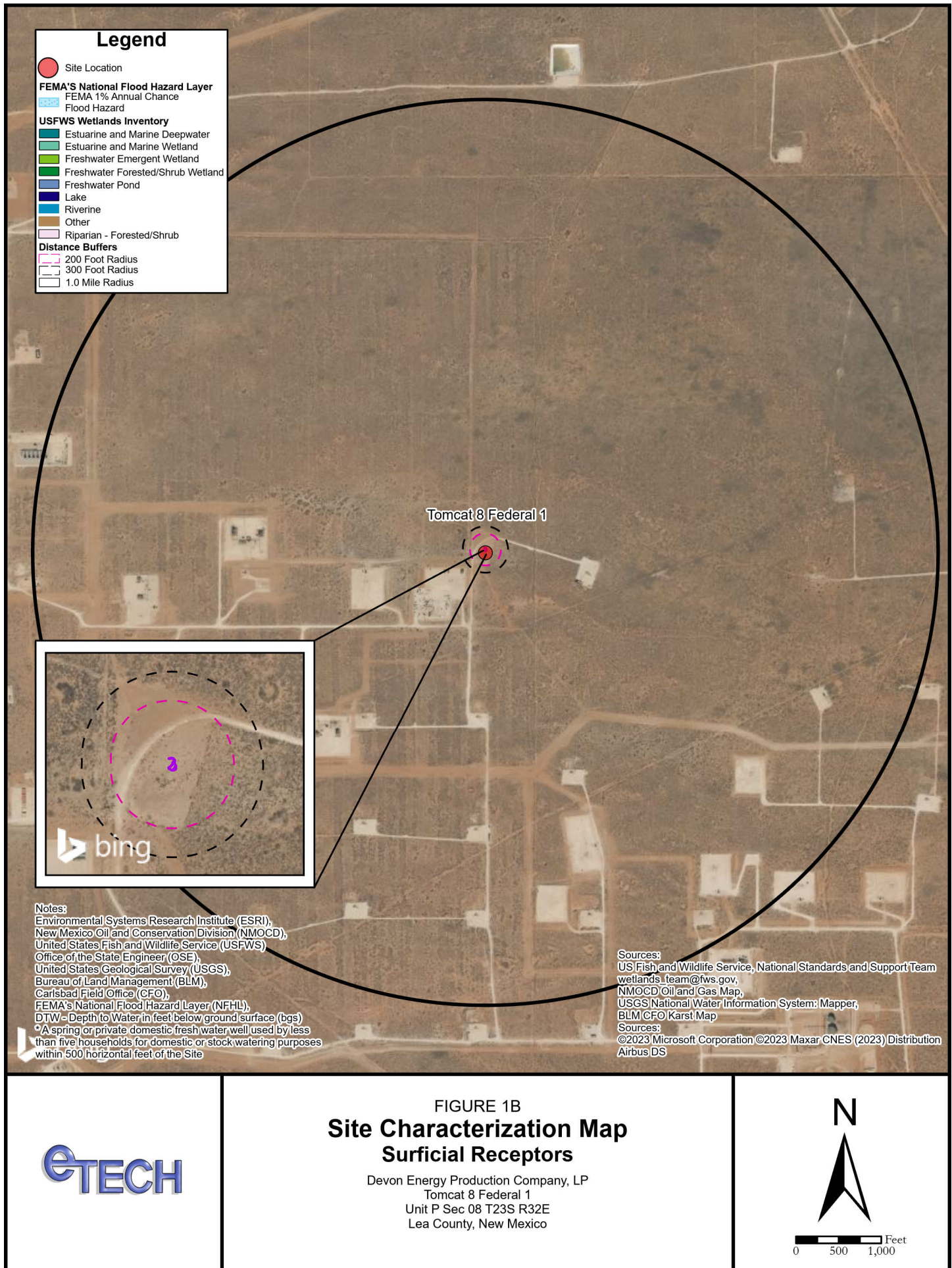


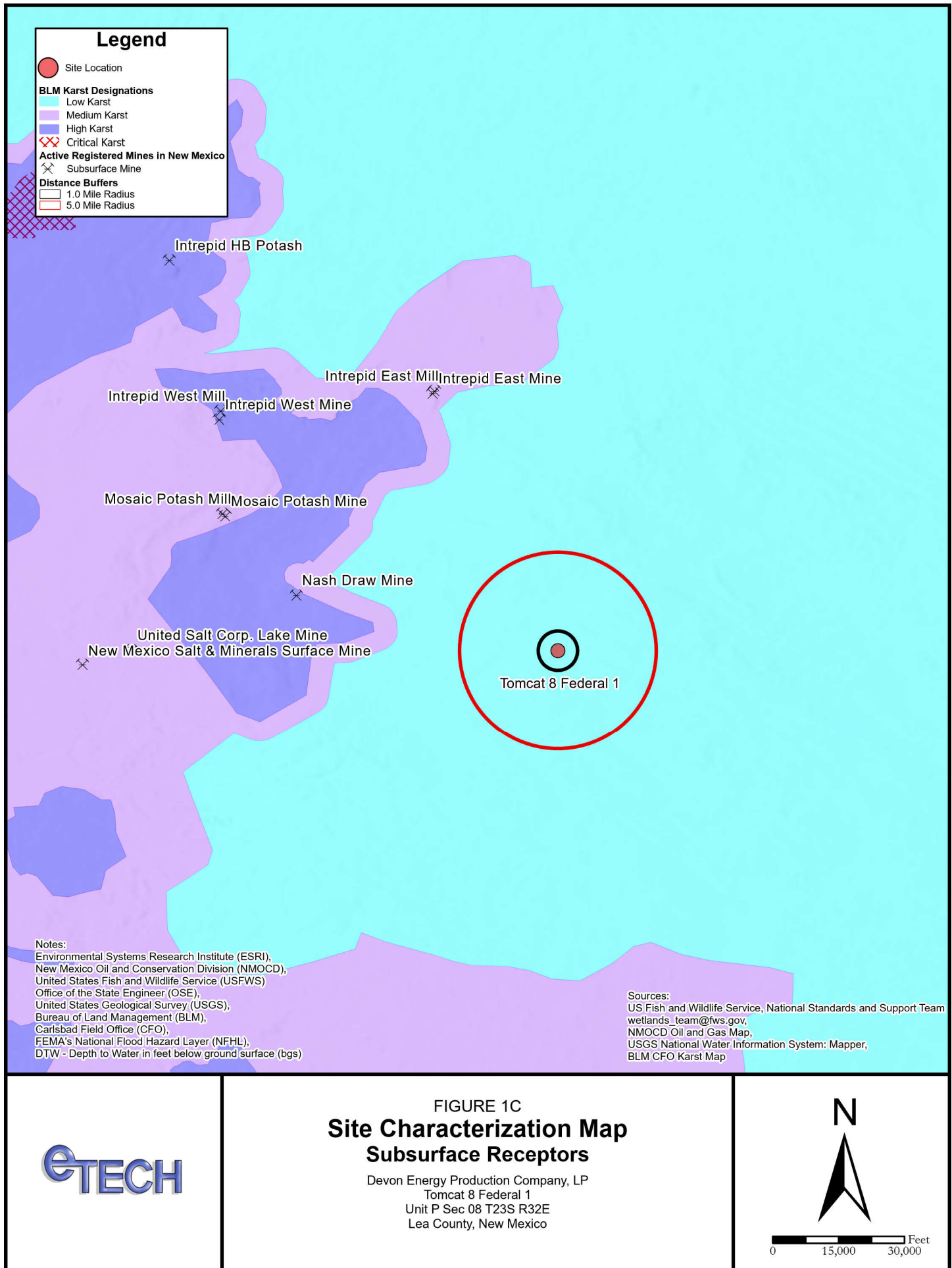
FIGURE 1A
**Site Characterization Map
 Groundwater**

Devon Energy Production Company, LP
 Tomcat 8 Federal 1
 Unit P Sec 08 T23S R32E
 Lea County, New Mexico



0 4,500 9,000 Feet





APPENDIX B

Referenced Well Records



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) C-04815 <i>POD 1</i>		WELL TAG ID NO.		OSE FILE NO(S) C-4815-POD1			
	WELL OWNER NAME(S) Devon Energy Resources				PHONE (OPTIONAL)			
	WELL OWNER MAILING ADDRESS 205 E. Bender Road #150				CITY Hobbs	STATE NM	ZIP 88240	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 18	SECONDS 51.8	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE -103	41	59.4	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE								
2. DRILLING & CASING INFORMATION	LICENSE NO. 1833		NAME OF LICENSED DRILLER Jason Maley			NAME OF WELL DRILLING COMPANY Vision Resources		
	DRILLING STARTED 4-16-24		DRILLING ENDED 4-16-24		DEPTH OF COMPLETED WELL (FT) 55'	BORE HOLE DEPTH (FT) 55'	DEPTH WATER FIRST ENCOUNTERED (FT) N/A	
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) 0'	DATE STATIC MEASURED 4-16-24	
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:						CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>	
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	FROM	TO						
	0	45	6"	PVC 2" SCH40	Thread	2"	SCH40	N/A
	45	55	6"	PVC 2" SCH40	Thread	2"	SCH40	.02
<div style="text-align: right;">OSE DTI APR 25 2024 PM 2:37</div>								
3. ANNULAR MATERIAL	DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL <i>*(if using Centralizers for Artesian wells- indicate the spacing below)</i>	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
	FROM	TO						
				None pulled and plugged				

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. C-04815	POD NO. 1	TRN NO. 757440
LOCATION 236.32E.08.143		WELL TAG ID NO.
		PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

WR-20 WELL RECORD & LOG (Version 09/22/2022)

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: 757440
File Nbr: 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.

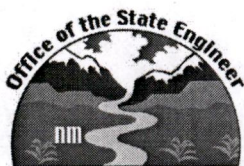
If you have any questions, please feel free to contact us.

Sincerely,

A handwritten signature in cursive script, appearing to read "Rodolfo Chavez".

Rodolfo Chavez
(575) 622-6521

drywell



PLUGGING RECORD



NOTE: A Well Plugging Plan of Operations shall be approved by the State Engineer prior to plugging - 19.27.4 NMAC

I. GENERAL / WELL OWNERSHIP:

State Engineer Well Number: ~~CP-04815~~ C-04815
 Well owner: Devon Energy Resources Phone No.: _____
 Mailing address: 205 E Bender Road#150
 City: Hobbs State: NM Zip code: 88240

II. WELL PLUGGING INFORMATION:

- 1) Name of well drilling company that plugged well: Vision Resources
- 2) New Mexico Well Driller License No.: 1833 Expiration Date: 10-7-25
- 3) Well plugging activities were supervised by the following well driller(s)/rig supervisor(s):
Jason Maley
- 4) Date well plugging began: 4-22-24 Date well plugging concluded: 4-22-24
- 5) GPS Well Location: Latitude: 32 deg, 18 min, 51.8 sec
 Longitude: -103 deg, 41 min, 59.4 sec, WGS 84
- 6) Depth of well confirmed at initiation of plugging as: 55 ft below ground level (bgl),
 by the following manner: Tape
- 7) Static water level measured at initiation of plugging: Dry ft bgl
- 8) Date well plugging plan of operations was approved by the State Engineer: 03-07-2024
- 9) Were all plugging activities consistent with an approved plugging plan? Yes If not, please describe differences between the approved plugging plan and the well as it was plugged (attach additional pages as needed):

USE DIT APR 25 2024 PM2:37

- For each interval plugged, describe within the following columns:**

05E DJI APR 25 2024 PM2:37

MULTIPLY		BY	AND OBTAIN
cubic feet	x	7.4805	= gallons
cubic yards	x	201.97	= gallons

I, Jason Maley, say that I am familiar with the rules of the Office of the State Engineer pertaining to the plugging of wells and that each and all of the statements in this Plugging Record and attachments are true to the best of my knowledge and belief.

Date _____



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) <u>C-4712-POD 2</u>		WELL TAG ID NO.		OSE FILE NO(S). <u>C-4712</u>		
	WELL OWNER NAME(S) <u>Harvard Petroleum Company</u>				PHONE (OPTIONAL)		
	WELL OWNER MAILING ADDRESS <u>P.O. Box 936</u>				CITY <u>Roswell</u>	STATE <u>NM</u>	
					ZIP <u>88202</u>		
2. DRILLING & CASING INFORMATION	WELL LOCATION (FROM GPS)		DEGREES <u>32</u>	MINUTES <u>17</u>	SECONDS <u>56.4</u>	N	
			LATITUDE				
			LONGITUDE	<u>-103</u>	<u>41</u>	<u>24.2</u>	
						W	
* ACCURACY REQUIRED: ONE TENTH OF A SECOND							
* DATUM REQUIRED: WGS 84							
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS - PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE							
3. ANNULAR MATERIAL	LICENSE NO. <u>1833</u>		NAME OF LICENSED DRILLER <u>Jason Maley</u>		NAME OF WELL DRILLING COMPANY <u>Vision Resources</u>		
	DRILLING STARTED <u>3-9-2023</u>		DRILLING ENDED <u>3-9-2023</u>		DEPTH OF COMPLETED WELL (FT) <u>55</u>		
			BORE HOLE DEPTH (FT) <u>55</u>		DEPTH WATER FIRST ENCOUNTERED (FT) <u>Dry</u>		
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN *add Centralizer info below <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) <u>Dry</u>		
	DATE STATIC MEASURED <u>Dry</u>						
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES - SPECIFY:						
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER - SPECIFY:						
	CHECK HERE IF PITLESS ADAPTER IS INSTALLED <input type="checkbox"/>						
	DEPTH (feet bgl)		BORE HOLE DIAM (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)
	FROM	TO					
			<u>None</u>				
DEPTH (feet bgl)		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE- RANGE BY INTERVAL <small>*(if using Centralizers for Artesian wells- indicate the spacing below)</small>	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
FROM	TO						

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 09/22/2022)

FILE NO. <u>C-4712-POD 2</u>	POD NO. <u>2</u>	TRN NO. <u>743189</u>
LOCATION <u>Mow 23.32.17.444</u>	WELL TAG ID NO. <u> </u>	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL

5. TEST: RIG SUPERVISION

6. SIGNATURE

FOR OSE INTERNAL USE		WR-20 WELL RECORD & LOG (Version 09/22/2022)	
FILE NO.	C-4712-POD 2	POD NO.	2
LOCATION	Neon 23.32.17.444	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 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,

A handwritten signature in black ink, appearing to read "Maret Thompson".

Maret Thompson
(575) 622-6521

drywell



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	OSE POD NO. (WELL NO.) POD1		WELL TAG ID NO. N/A		OSE FILE NO(S). C-04889 POD1			
	WELL OWNER NAME(S) Devon Energy Production Company, LP				PHONE (OPTIONAL) 575-689-7597			
	WELL OWNER MAILING ADDRESS 5315 Buena Vista Dr				CITY Carlsbad	STATE NM	ZIP 88220	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 18	SECONDS 30.96 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND			
		LONGITUDE 103	39	50.45 W	* DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS – PLSS (SECTION, TOWNSHIP, RANGE) WHERE AVAILABLE Unit C, Section 15, Township 23S, Range 32E, Lea County, NM								
2. DRILLING & CASING INFORMATION	LICENSE NO. WD1188		NAME OF LICENSED DRILLER John Scarborough			NAME OF WELL DRILLING COMPANY John Scarborough Drilling Inc		
	DRILLING STARTED 10/21/2024	DRILLING ENDED 10/21/2024	DEPTH OF COMPLETED WELL (FT) 105	BORE HOLE DEPTH (FT) 105	DEPTH WATER FIRST ENCOUNTERED (FT) N/A			
	COMPLETED WELL IS: <input type="checkbox"/> ARTESIAN <input checked="" type="checkbox"/> DRY HOLE <input type="checkbox"/> SHALLOW (UNCONFINED)				STATIC WATER LEVEL IN COMPLETED WELL (FT) N/A			
	DRILLING FLUID: <input checked="" type="checkbox"/> AIR <input type="checkbox"/> MUD ADDITIVES – SPECIFY:							
	DRILLING METHOD: <input checked="" type="checkbox"/> ROTARY <input type="checkbox"/> HAMMER <input type="checkbox"/> CABLE TOOL <input type="checkbox"/> OTHER – SPECIFY:							
	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	CASING MATERIAL AND/OR GRADE (include each casing string, and note sections of screen)	CASING CONNECTION TYPE (add coupling diameter)	CASING INSIDE DIAM. (inches)	CASING WALL THICKNESS (inches)	SLOT SIZE (inches)
	0 105		5.00	Soil Boring				
3. ANNULAR MATERIAL	DEPTH (feet bgl) FROM TO		BORE HOLE DIAM. (inches)	LIST ANNULAR SEAL MATERIAL AND GRAVEL PACK SIZE-RANGE BY INTERVAL	AMOUNT (cubic feet)	METHOD OF PLACEMENT		
				N/A				

OSE DII ROSWELL NM
16 DEC '24 4:10:29

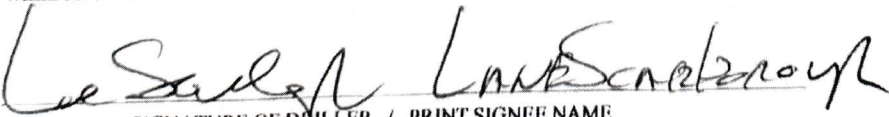
FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/19)

FILE NO. C-04889	POD NO. 1	TRN NO. 768314
LOCATION 23S. 32E. 15. 421	WELL TAG ID NO. —	PAGE 1 OF 2

4. HYDROGEOLOGIC LOG OF WELL	DEPTH (feet bgl)		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)
	FROM	TO				
	0	10	10	Sand with Silt, Red to Medium Brown, Coarse to Very Fine	Y ✓ N	
	10	20	10	Sand with Gravel, Light Brown to Tan, Medium to Coarse with Gravel	Y ✓ N	
	20	30	10	Gravel with Sand, White to Tan, Small to Large with Medium to Coarse	Y ✓ N	
	30	40	10	Sand with Gravel, Medium to Light Brown, Coarse to Fine with Gravel	Y ✓ N	
	40	50	10	Sand with Gravel, Light Brown to Tan, Coarse to Fine with Gravel	Y ✓ N	
	50	60	10	Silty Sand, Light Brown to Red, Coarse to Very Fine	Y ✓ N	
	60	70	10	Inter-bedded Sandstone and Sand, Medium Brown, Medium to Coarse	Y ✓ N	
	70	80	10	Clayey Sand, Dark to Medium Brown, Medium to Fine Grained	Y ✓ N	
	80	90	10	Clayey Sand, Dark to Medium Brown, Medium to Fine Grained	Y ✓ N	
	90	100	10	Clayey Sand, Dark Red to Medium Brown, Medium to Fine Grained	Y ✓ N	
	100	105	5	Silty Sand, Light Brown to Tan, Coarse to Fine Grained	Y ✓ N	
	105	105	0	Silty Sand, Tan to Green, Coarse to Fine Grained	Y ✓ N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
					Y N	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA: <input type="checkbox"/> PUMP <input type="checkbox"/> AIR LIFT <input type="checkbox"/> BAILER <input type="checkbox"/> OTHER - SPECIFY:					TOTAL ESTIMATED WELL YIELD (gpm): 0.00	

5. TEST; RIG SUPERVISION	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.
	MISCELLANEOUS INFORMATION: Temporary well material removed and soil boring backfilled using drill cuttings from total depth to 10 ft below ground surface (bgs), then hydrated bentonite chips 10 ft bgs to ground surface.	
	PRINT NAME(S) OF DRILL RIG SUPERVISOR(S) THAT PROVIDED ONSITE SUPERVISION OF WELL CONSTRUCTION OTHER THAN LICENSEE: Scott Scarborough	

6. SIGNATURE	BY SIGNING BELOW, I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED WELL. I ALSO CERTIFY THAT THE WELL TAG, IF REQUIRED, HAS BEEN INSTALLED AND THAT THIS WELL RECORD WILL ALSO BE FILED WITH THE PERMIT HOLDER WITHIN 30 DAYS AFTER THE COMPLETION OF WELL DRILLING.	
	 SIGNATURE OF DRILLER / PRINT SIGNEE NAME	12/13/2024 DATE

FOR OSE INTERNAL USE

WR-20 WELL RECORD & LOG (Version 04/30/2019)

FILE NO. C-04889

POD NO. 1

TRN NO. 768314

235.82E.15.421



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)

POD Number	Code	Sub basin	County	Q64	Q16	Q4	Sec	Tws	Range	X	Y	Map	(meters)	(In feet)		
													Distance	Well Depth	Depth Water	Water Column
C 04815 POD1		CUB	LE	NW	SE	SW	08	23S	32E	622391.9	3576025.7	●	922	55		
C 04712 POD2		CUB	LE	SE	SE	SE	17	23S	32E	623331.9	3574331.5	●	1704	55		
C 04889 POD1		CUB	LE	SE	NE	NW	15	23S	32E	625771.5	3575426.3	●	2532	105		
C 04862 POD1		CUB	LE	NE	NW	NW	04	23S	32E	623697.0	3578798.5	●	2788	105	78	27
C 02349		CUB	ED	SE	NE	SW	03	23S	32E	625677.9	3578003.4	●	3075	525		
C 02216		CUB	LE	NE	NE	SE	21	23S	32E	625035.0	3573261.0 *	●	3265	585	400	185
C 03851 POD1		CUB	LE	SW	SW	SE	20	23S	32E	622879.6	3572660.0	●	3403	1392	713	679
C 04704 POD1		CUB	ED	SW	NE	NE	13	23S	31E	619854.4	3575363.5	●	3524			
C 04807 POD1		CUB	LE	NW	NE	NW	11	23S	32E	627099.7	3577375.0	●	4015	105		
C 04712 POD3		CUB	ED	SE	NW	NE	24	23S	31E	619650.7	3573877.9	●	4251	55		
C 04726 POD1		CUB	ED	NW	NW	SE	01	23S	31E	619538.3	3578821.3	●	4691			
C 04877 POD1		CUB	LE	SE	NW	NW	30	23S	32E	620404.8	3572240.0	●	4782	105		
C 04663 POD1		CUB	LE	SW	NW	NE	31	22S	32E	621181.3	3580341.4	●	4804	110		
C 03529 POD1		C	LE	NE	SE	SW	29	23S	32E	622651.2	3571212.5	●	4868	550		
C 04774 POD1		CUB	ED	SE	NE	NE	23	23S	31E	618456.0	3573856.4	●	5324	105		
C 04598 POD1		CUB	LE	NE	SW	NW	29	22S	32E	622069.2	3581570.2	●	5672	56		
C 04780 POD1		CUB	LE	NW	SW	NW	34	23S	32E	625363.6	3570521.7	●	5882	80		
C 04855 POD1		CUB	ED	NE	SW	SW	11	23S	31E	617417.6	3575936.7	●	5897	105		
C 04712 POD4		CUB	ED	NW	SE	SW	14	23S	31E	617535.4	3574316.2	●	6029	55		
C 04712 POD1		CUB	LE	NW	SE	NW	31	23S	32E	620917.2	3570289.2	●	6226	55		
C 02777		CUB	ED	SE	SE	SE	10	23S	31E	616973.8	3575662.1	●	6351	890		
C 03749 POD1		CUB	ED		NE	NE	15	23S	31E	616973.8	3575662.1	●	6351	865	639	226
C 04790 POD1		CUB	ED	SE	SE	SW	25	23S	31E	619309.4	3570904.8	●	6508	55		
C 02258		C	ED		SW	NE	26	23S	31E	618055.0	3571853.0 *	●	6719	662		
C 02756		CUB	ED	SW	SE	SE	26	22S	31E	618250.0	3580606.0 *	●	6821	1998		
C 03152		CUB	ED	SW	SE	SE	26	22S	31E	618250.0	3580606.0 *	●	6821	938		
C 03555 POD1		C	LE	NE	NE	NW	05	24S	32E	622748.5	3569233.6	●	6825	600	380	220
C 04837 POD1		CUB	LE	SE	NW	SE	19	22S	32E	621328.1	3582655.6	●	6911	80		
C 02348		C	ED	NW	SE	SW	26	23S	31E	617647.5	3571068.0	●	7535	700	430	270
C 02939		C	LE	SW	SW	NW	19	22S	32E	620234.0	3583042.0 *	●	7653	280		
C 03138		CUB	ED	SW	SW	SW	26	22S	31E	617043.0	3580591.0 *	●	7750	750		
C 04746 POD1		CUB	ED	SW	SE	SW	36	23S	31E	619225.7	3569417.8	●	7779	105		
C 04907 POD1		CUB	LA	SW	SW	SE	17	22S	32E	622396.4	3583785.0	●	7803	55		
C 02773		CUB	ED	SE	NW	SW	03	23S	31E	615668.0	3577762.0 *	●	7838	880		
C 04709 POD1		CUB	ED	SW	NW	NW	15	23S	31E	615508.8	3575262.4	●	7843			
C 02275		CUB	LE	SW	SW	NE	19	23S	33E	630843.0	3573557.0 *	●	7926	650	400	250
C 03527 POD1		C	LE	NW	NE	SW	03	24S	32E	625769.7	3568487.2	●	7938	500		
C 04740 POD1		CUB	ED	SW	SE	SE	23	22S	31E	618327.8	3582299.2	●	8005	110		

Average Depth to Water: **434 feet**

Water Column/Average Depth to Water

March 12, 2025 01:25 PM MST

Page 1 of 2

Maximum Depth: **713 feet**

Record Count: 38

Basin/County Search:

Basin: C

UTM Filters (in meters):

Easting: 623314

Northing: 3576036

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.

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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 471572

QUESTIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 471572
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
Incident ID (n#)	nKL1622549584
Incident Name	NKL1622549584 TOMCAT 8 FEDERAL #001 @ 30-025-38367
Incident Type	Produced Water Release
Incident Status	Remediation Plan Received
Incident Well	[30-025-38367] TOMCAT 8 FEDERAL #001

Location of Release Source*Please answer all the questions in this group.*

Site Name	TOMCAT 8 FEDERAL #001
Date Release Discovered	08/04/2016
Surface Owner	Federal

Incident Details*Please answer all the questions in this group.*

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

Nature and Volume of Release*Material(s) released, please answer all that apply below. Any calculations or specific justifications for the volumes provided should be attached to the follow-up C-141 submission.*

Crude Oil Released (bbls) Details	Not answered.
Produced Water Released (bbls) Details	Cause: Equipment Failure Valve Produced Water Released: 6 BBL Recovered: 5 BBL Lost: 1 BBL.
Is the concentration of chloride in the produced water >10,000 mg/l	Yes
Condensate Released (bbls) Details	Not answered.
Natural Gas Vented (Mcf) Details	Not answered.
Natural Gas Flared (Mcf) Details	Not answered.
Other Released Details	Not answered.
Are there additional details for the questions above (i.e. any answer containing Other, Specify, Unknown, and/or Fire, or any negative lost amounts)	Not answered.

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QUESTIONS, Page 2

Action 471572

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 471572
	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	No
Reasons why this would be considered a submission for a notification of a major release	Unavailable.
With the implementation of the 19.15.27 NMAC (05/25/2021), venting and/or flaring of natural gas (i.e. gas only) are to be submitted on the C-129 form.	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury.

The source of the release has been stopped	True
The impacted area has been secured to protect human health and the environment	True
Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices	True
All free liquids and recoverable materials have been removed and managed appropriately	True
If all the actions described above have not been undertaken, explain why	Not answered.

Per Paragraph (4) of Subsection B of 19.15.29.8 NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of actions to date in the follow-up C-141 submission. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of Subsection A of 19.15.29.11 NMAC), please prepare and attach all information needed for closure evaluation in the follow-up C-141 submission.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dvni.com Date: 06/06/2025
--	---

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QUESTIONS, Page 3

Action 471572

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 471572
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization	
<i>Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date.</i>	
What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 51 and 75 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release and the following surface areas:	
A continuously flowing watercourse or any other significant watercourse	Between 1 and 5 (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1 and 5 (mi.)
An occupied permanent residence, school, hospital, institution, or church	Greater than 5 (mi.)
A spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes	Between 1 and 5 (mi.)
Any other fresh water well or spring	Between 1 and 5 (mi.)
Incorporated municipal boundaries or a defined municipal fresh water well field	Greater than 5 (mi.)
A wetland	Between 1 and 5 (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Greater than 5 (mi.)
Categorize the risk of this well / site being in a karst geology	Low
A 100-year floodplain	Greater than 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	No

Remediation Plan	
<i>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.</i>	
Requesting a remediation plan approval with this submission	Yes
<i>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.</i>	
Have the lateral and vertical extents of contamination been fully delineated	Yes
Was this release entirely contained within a lined containment area	No
Soil Contamination Sampling: (Provide the highest observable value for each, in milligrams per kilograms.)	
Chloride (EPA 300.0 or SM4500 Cl B)	1300
TPH (GRO+DRO+MRO) (EPA SW-846 Method 8015M)	4960
GRO+DRO (EPA SW-846 Method 8015M)	2270
BTEX (EPA SW-846 Method 8021B or 8260B)	0
Benzene (EPA SW-846 Method 8021B or 8260B)	0
<i>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>	
On what estimated date will the remediation commence	08/31/2025
On what date will (or did) the final sampling or liner inspection occur	08/31/2025
On what date will (or was) the remediation complete(d)	08/31/2025
What is the estimated surface area (in square feet) that will be reclaimed	243
What is the estimated volume (in cubic yards) that will be reclaimed	36
What is the estimated surface area (in square feet) that will be remediated	243
What is the estimated volume (in cubic yards) that will be remediated	36
<i>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.</i>	
<i>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.</i>	

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QUESTIONS, Page 4

Action 471572

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 471572
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Remediation Plan (continued)	
<i>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.</i>	
This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants:	
<i>(Select all answers below that apply.)</i>	
(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.
<i>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>	
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.	
I hereby agree and sign off to the above statement	Name: James Raley Title: EHS Professional Email: jim.raley@dmv.com Date: 06/06/2025
<i>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.</i>	

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QUESTIONS, Page 5

Action 471572

QUESTIONS (continued)

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 471572
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

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

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QUESTIONS, Page 6

Action 471572

QUESTIONS (continued)

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	Action Number: 471572
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Sampling Event Information	
Last sampling notification (C-141N) recorded	452883
Sampling date pursuant to Subparagraph (a) of Paragraph (1) of Subsection D of 19.15.29.12 NMAC	04/24/2025
What was the (estimated) number of samples that were to be gathered	10
What was the sampling surface area in square feet	400

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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CONDITIONS

Action 471572

CONDITIONS

Operator: DEVON ENERGY PRODUCTION COMPANY, LP 333 West Sheridan Ave. Oklahoma City, OK 73102	OGRID: 6137
	Action Number: 471572
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

CONDITIONS

Created By	Condition	Condition Date
scwells	Remediation plan approved. Submit remediation closure report to the OCD by 9/8/2025.	6/9/2025