ENSOLUM

September 26, 2024

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

Re: Remediation Work Plan Avalon UT 657 Incident Number nAPP2420136803 Eddy County, New Mexico

To Whom It May Concern:

Ensolum, LLC (Ensolum), on behalf of XTO Energy, Inc. (XTO), has prepared the following *Remediation Work Plan* (*Work Plan*) to document assessment and delineation activities completed to date and propose a work plan to address waste-containing soil identified at the Avalon UT 657 (Site). The purpose of the remediation activities was to determine the presence or absence of impacted and/or waste-containing soil resulting from a produced water and crude oil release at the Site. The following *Work Plan* proposes to remove impacted soil and waste-containing soil identified within the release extent.

SITE DESCRIPTION AND RELEASE SUMMARY

The Site is located in Unit B, Section 31, Township 20 South, Range 28 East, in Eddy County, New Mexico (32.5346°, -104.21384°) and is associated with oil and gas exploration and production operations on Federal Land managed by the Bureau of Land Management (BLM).

On June 28, 2024, corrosion of a flow line resulted in the release of 11 barrels (bbls) of produced water and 5 bbls of crude oil into the adjacent pasture area. No fluids were recovered. XTO submitted a Notification of Release (NOR) and Initial C-141 Application (C-141) on July 19, 2024. The release was assigned Incident Number nAPP2420136803.

SITE CHARACTERIZATION

The Site was characterized to assess the applicability of Table I, Closure Criteria for Soils Impacted by a Release, of Title 19, Chapter 15, Part 29 (19.15.29) of the New Mexico Administrative Code (NMAC). Results from the characterization desktop review are presented below and potential Site receptors are identified on Figure 1.

Depth to groundwater at the Site is greater than 100 feet below ground surface (bgs) based on the nearest groundwater well data. On September 21, 1995, a New Mexico Office of the State Engineer (NMOSE) permitted well (CP-851) was measured and recorded a depth to groundwater of 115 feet bgs. The total depth of the well is 255 feet bgs. The location of the well is approximately 137 feet southwest of the release and is depicted on Figure 1. The CP-851 well was appropriated in September 1996 for use for "livestock watering" and "drinking and sanitary purposes and the irrigation of non-commercial trees, shrubs and lawns in conjunction with a commercial operation".

XTO Energy, Inc. Remediation Work Plan Avalon UT 657

Further investigation was completed to confirm the existence, location, and function of this well. Partial investigation was completed on October 1, 2019, for an approved release, Incident Number NAB1815756705. A water quality sample (WS01) was collected and submitted for analysis of total dissolved solids (TDS) by Standard Method (SM) 2540C. Laboratory analytical results for water sample WS01 indicated a TDS concentration of 11,600 milligrams per liter (mg/L). Based on a TDS concentration greater than 10,000 mg/L, the water well is not considered a fresh water well. The Well Record and Log and laboratory analytical report is included in Appendix A. On September 24, 2024, Ensolum personnel conducted a pedestrian survey to confirm the location of the well and distance to the release. The well was reported to be located at 32.53437°, -104.21421°; however, the physical location of the well is 32.534988°, -104.215215°, which is 430 feet northwest of the Site. Photographic documentation was completed during the investigation and a photographic log is included in Appendix B. The location of CP-851 is updated on Figure 1.

The closest continuously flowing or significant watercourse to the Site is a dry wash, located approximately 1,187 feet northwest of the Site. The Site is greater than 200 feet from a lakebed, sinkhole, or playa lake and greater than 300 feet from an occupied residence, school, hospital, institution, church, or wetland. The Site is greater than 1,000 feet to a freshwater well or spring and is not within a 100-year floodplain or overlying a subsurface mine. The Site is not underlain by unstable geology (medium potential karst designation area).

VARIANCE REQUEST AND CLOSURE CRITERIA

The New Mexico Oil Conservation Division (NMOCD) has a preference of depth to groundwater determinations to be within the last 25 years. Due to CP-851 depth to groundwater being determined 29 years prior to the date of the release, it exceeds the preferred age of data. Based on the lack of sensitive receptors at the Site, the Site not being underlain by unstable geology, and the reclamation standard being utilized in the top 4 feet bgs, XTO is requesting a variance for the preferred age of the nearest depth to groundwater data guideline.

Based on the results of the Site Characterization and the requested variance, the following NMOCD Table I Closure Criteria (Closure Criteria) apply:

- Benzene: 10 milligrams per kilogram (mg/kg)
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX): 50 mg/kg
- Total petroleum hydrocarbons (TPH)-gasoline range organics (GRO) and TPH-diesel range organics (DRO): 1,000 mg/kg
- TPH: 2,500 mg/kg
- Chloride: 20,000 mg/kg

A reclamation standard of 600 mg/kg chloride and 100 mg/kg TPH applies to the top 4 feet of the pasture area that was impacted by the release, per NMAC 19.15.29.13.D (1) for the top 4 feet of areas that will be reclaimed following remediation.

SITE ASSESSMENT AND DELINEATION ACTIVITIES

On September 17, 2024, Ensolum personnel conducted a Site visit to evaluate the release extent based on information in the C-141 and visual observations. The release extent was mapped utilizing a handheld



XTO Energy, Inc. Remediation Work Plan Avalon UT 657

Global Positioning System (GPS) unit and is depicted on Figure 2. Photographic documentation was completed during the Site visit and a photographic log is included in Appendix B.

On September 20, 2024, Ensolum personnel returned to the Site to collect delineation samples from within the release. Three boreholes, BH01 through BH03, were advanced via hand auger within the release to assess the vertical extent of the release to terminal depths ranging from 1-foot bgs to 7 feet bgs. Delineation soil samples were collected from each borehole at depths ranging from 0.5 feet to 7 feet bgs. The soil samples were field screened for volatile organic compounds (VOCs) utilizing a calibrated photoionization detector (PID) and chloride using Hach[®] chloride QuanTab[®] test strips. Field screening results and observations were logged on lithologic/soil sampling logs, which are included in Appendix C. The delineation soil sample locations were mapped utilizing a GPS unit and are depicted on Figure 2.

The delineation soil samples were placed directly into pre-cleaned glass jars, labeled with the location, date, time, sampler name, method of analysis, and immediately placed on ice. The soil samples were transported under strict chain-of-custody procedures to Cardinal Laboratories (Cardinal) in Hobbs, New Mexico, for analysis of the following contaminants of concern (COCs): BTEX following United States Environmental Protection Agency (EPA) Method 8021B; TPH-GRO, TPH-DRO, and TPH-oil range organics (ORO) following EPA Method 8015M/D; and chloride following Standards Method SM4500.

LABORATORY ANALYTICAL RESULTS

Laboratory analytical results for BH01 through BH03A, collected at depths ranging from 0.5 feet bgs to 5 feet bgs, indicated TPH-GRO/TPH-DRO, TPH, and/or chloride concentrations exceeded the Closure Criteria and/or reclamation requirement. Vertical delineation could not be achieved in boreholes BH01 and BH02 due to hand auger refusal; however, BH03B at 7 feet bgs indicated all COCs were compliant with the Closure Criteria, successfully defining the vertical extent of release. The laboratory analytical results are summarized in Table 1 and the complete laboratory analytical reports are included in Appendix D.

PROPOSED REMEDIATION WORK PLAN

The delineation soil sampling results indicate impacted and waste-containing soil with elevated TPH and chloride concentrations exists in the pasture across an approximate 2,140 square foot area and extends to depths ranging from 0.5 feet to 7 feet bgs. As such, XTO proposes to complete the following remediation activities:

- Additional investigation to confirm depth to groundwater at CP-851.
- Excavation of impacted and waste-containing soil to a maximum depth of up to 7 feet bgs. Excavation will proceed laterally until sidewall samples confirm all COC concentrations are compliant with the Closure Criteria and/or reclamation requirement.
- An estimated 560 cubic yards of soil will be excavated and disposed of at the R360 disposal facility in Hobbs, New Mexico.
- The excavation will be backfilled with locally procured material and recontoured to match preexisting conditions.
- The backfilled area will be reseeded with a BLM approved seed mix within 90 days or during the next BLM recommended planting season.



XTO Energy, Inc. Remediation Work Plan Avalon UT 657

If you have any questions or comments, please contact Ms. Tacoma Morrissey at (337) 257-8307 or tmorrissey@ensolum.com.

Sincerely, Ensolum, LLC

Trees Hittant

Tracy Hillard Project Engineer

Daniel R. Moir, PG (licensed in WY & TX) Senior Managing Geologist

cc: Amy Ruth, XTO Amanda Garcia, XTO BLM

Appendices:

- Figure 1 Site Location Map
- Figure 2 Delineation Soil Sample Locations
- Table 1Soil Sample Analytical Results
- Appendix A Referenced Well Records and Laboratory Analytical Report
- Appendix B Photographic Log
- Appendix C Lithologic / Soil Sampling Logs
- Appendix D Laboratory Analytical Reports & Chain-of-Custody Documentation





FIGURES

•

Received by OCD: 9/26/2024 2:50:56 PM



Received by OCD: 9/26/2024 2:50:56 PM

FIGURE

2



Delineation Soil Sample Locations

XTO Energy, Inc Avalon UT 657 Incident Number: nAPP2420136803 Unit B, Sec 31, T20S, R28E Eddy County, New Mexico

Released to Imaging: 10/24/2024 8:28:36 AM

ENSOLUM Environmental, Engineering and Hydrogeologic Consultants



TABLES

.

Released to Imaging: 10/24/2024 8:28:36 AM

TABLE 1 SOIL SAMPLE ANALYTICAL RESULTS Avalon UT 657 XTO Energy, Inc Eddy 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)	GRO+DRO (mg/kg)	Total TPH (mg/kg)	Chloride (mg/kg)
NMOCD Table I CI	osure Criteria (N	NMAC 19.15.29)	10	50	NE	NE	NE	1,000	2,500	20,000
				Delir	neation Soil Sa	mples				
BH01	09/20/2024	0.5	<0.050	9.92	575	12,700	2,420	13,275	15,695	4,240
BH01A	09/20/2024	1	<0.200	33.5	726	8,970	1,670	9,696	11,366	8,260
BH02	09/20/2024	0.5	<0.050	10.2	618	13,400	2,670	14,018	16,688	3,000
BH02A	09/20/2024	5	<0.050	3.56	162	1,760	310	1,922	2,232	6,720
BH03	09/20/2024	0.5	<0.050	31.0	1,970	21,500	3,750	23,470	27,220	48.0
BH03A	09/20/2024	5	<0.050	1.38	60.9	1,250	206	1,311	1,517	80.0
BH03B	09/20/2024	7	<0.050	<0.300	14.2	490	89	504	594	96.0

Notes:

bgs: below ground surface

mg/kg: milligrams per kilogram

NMOCD: New Mexico Oil Conservation Division

BTEX: Benzene, Toluene, Ethylbenzene, and Xylenes

Concentrations in **bold** exceed the NMOCD Table I Closure Criteria or reclamation requirement where applicable.

GRO: Gasoline Range Organics

DRO: Diesel Range Organics

ORO: Oil Range Organics

TPH: Total Petroleum Hydrocarbon

NMAC: New Mexico Administrative Code

Grey text indicates soil sample removed during excavation activities



APPENDIX A Referenced Well Records and Laboratory Analytical Report

y OCD: 9/26/2024 2:50:56 PM		L Mag
READ INSTRUCTIONS ON BA	2-0 Revised June 1991	JU
APPLICATION TO APPROPRIATE U IN ACCORDANCE WITH SECTION 72-12-	NDERGROUND WATERS -1 NEW MEXICO STATUTES	78
	Letto	\mathcal{O}
1. Name and mailing address of applicant:	File No	
Exxon Corporation (Joe R. Glass - Agent)	RECEIVED: 08-16-95	
P.O. Box 1600, ML-14		
Midland, Texas 79702		
2. Describe well location under one of the following subheadings		
e. <u>SE v. NW v. NE v. of Sec. 31</u> in <u>Eddy</u> <u>County.</u>	тыр. <u>205</u> Rge. <u>28</u> мнрн,	
b. X = feet, Y =	feet, New Mexico Coordinate SystemGrant.	
3. Approximate depth (if known) feet; outside		
Name of driller (if known) Glenn's Water Well Serv		267
 Use of water (check use applied for): 		
One household, non-commercial trees, lawn and garden not	to exceed one acre.	
Livestock watering.		
More than one household, non-commercial trees, lawns and	gardens not to exceed a total of one acre.	
Drill and test a wall intended to be used for domestic. (,	
	drinking and sanitary or stock water purposes	
in conjunction with the building or dwelling unit.		
	n-commercial trees, shrubs and lawns in	
in conjunction with the building or dwelling unit.	n-commercial trees, shrubs and lawns in	
in conjunction with the building or dwelling unit. Drinking and sanitary purposes and the irrigation of non conjunction with a commercial operation.	n-commercial trees, shrubs and lawns in	·
in conjunction with the building or dwelling unit. Drinking and sanitary purposes and the irrigation of non conjunction with a commercial operation. Prospecting, mining or drilling operations to discover o Construction of public works, highways and roads. If any of the last three items were marked, give name and na	n-commercial trees, shrubs and lawns in or develop natural resources.	
in conjunction with the building or dwelling unit. Drinking and sanitary purposes and the irrigation of non conjunction with a commercial operation. Prospecting, mining or drilling operations to discover o Construction of public works, highways and roads.	n-commercial trees, shrubs and lawns in or develop natural resources.	
 in conjunction with the building or dwelling unit. Drinking and sanitary purposes and the irrigation of non conjunction with a commercial operation. X Prospecting, mining or drilling operations to discover o Construction of public works, highways and roads. If any of the last three items were marked, give name and na Remarks: Water from Avalon WSW #1 will be used. 	n-commercial trees, shrubs and lawns in or develop natural resources.	
 in conjunction with the building or dwelling unit. Drinking and sanitary purposes and the irrigation of non conjunction with a commercial operation. X Prospecting, mining or drilling operations to discover o Construction of public works, highways and roads. If any of the last three items were marked, give name and na Remarks: Water from Avalon WSW #1 will be use Exxon Corporation's Avalon (Delaware) Unit i, Joe R. Glass, affirm that the for 	n-commercial trees, shrubs and lawns in for develop natural resources.	
<pre>in conjunction with the building or dwelling unit. </pre>	n-commercial trees, shrubs and lawns in for develop natural resources.	
<pre>in conjunction with the building or dwelling unit</pre>	n-commercial trees, shrubs and lawns in for develop natural resources.	
<pre>in conjunction with the building or dwelling unit. </pre>	n-commercial trees, shrubs and lawns in for develop natural resources.	
<pre>in conjunction with the building or dwelling unit</pre>	n-commercial trees, shrubs and lawns in for develop natural resources.	
<pre>in conjunction with the building or dwelling unit</pre>	n-commercial trees, shrubs and lawns in for develop natural resources.	
in conjunction with the building or dwelling unit. 	A-commercial trees, shrubs and lawns in or develop natural resources.	
in conjunction with the building or dwelling unit. 	A-commercial trees, shrubs and lawns in or develop natural resources.	
in conjunction with the building or dwelling unit. 	An-commercial trees, shrubs and lawns in or develop natural resources. ature of business under Remarks (Item 5). ed during drilling operations or No. 2216. regoing statements are true to the best of my until approval of the permit has been obtained. Date: <u>August 14, 1995</u> KINGINEER t to all general conditions and to specific on the reverse side hereof. This permit will en and the well record filed on or before METER REQUIRED	
in conjunction with the building or dwelling unit. 	Ar-commercial trees, shrubs and lawns in or develop natural resources. ature of business under Remarks (Item 5). red during drilling operations on NO. 2216. regoing statements are true to the best of my until approval of the permit has been obtained. Date: <u>August 14, 1995</u> ENGINEER t to all general conditions and to specific on the reverse side hereof. This permit will en and the well record filed on or before METER REQUIRED SEE CONDITION OF APPROVAL No.	
in conjunction with the building or dwelling unit. Drinking and sanitary purposes and the irrigation of non- conjunction with a commercial operation. X Prospecting, mining or drilling operations to discover o Construction of public works, highways and roads. If any of the last three items were marked, give name and na S. Remarks: Water from Avalon WSW #1 will be use Exxon Corporation's Avalon (Delaware) Unit i, Joe R. Glass , affirm that the for knowledge and belief and that development shall not commerce u Exxon Corporation By: We Heast Joe R. Glass ACTION OF STATE E This application is approved for the use indicated, subject conditions numbered 1, 3, 5a & 6 automatically expire unless this well is drilled or drive August 3i, 1996 Thomas C. Turney GHIMEXXMERT State Engineer By: Johnsy R. Hernandez, Lea County Basin Sup	Ar-commercial trees, shrubs and lawns in or develop natural resources. ature of business under Remarks (Item 5). red during drilling operations on NO. 2216. regoing statements are true to the best of my until approval of the permit has been obtained. Date: <u>August 14, 1995</u> ENGINEER t to all general conditions and to specific on the reverse side hereof. This permit will en and the well record filed on or before METER REQUIRED SEE CONDITION OF APPROVAL No.	

•

GENERAL CONDITIONS OF APPROVAL

Page 12 of 65

- A. The maximum amount of water that may be appropriated under this permit is 3 acre-feet in any year.
- B. The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated. A licensed driller shall not be required for the construction of a driven well; provided, that the casing shall not exceed two and three-eights (2 3/8) inches outside diameter (Section 72-12-12).
- C. Driller's well record must be filed with the State Engineer within 10 days after the well is drilled or driven. Failure to file the well record within that time shall result in automatic cancellation of the permit. Well record forms will be provided by the State Engineer upon request.
- D. The casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.
- E. If the well under this permit is used at any time to serve more than one household or livestock in a commercial feed lot operation, or for drinking and sanitation purposes in conjunction with a commercial operation, the permittee shall comply with Specific Conditions of Approval cumber 5(b).
- F. In the event this well is combined with other wells permitted under Section 72-12-1 New Mexico Statuces Annotated, the total outdoor use shall not exceed the irrigation of one acre of non-commercial trees, iawn, and garden, or the equivalent outside consumptive use, and the total appropriation for household and outdoor use from the entire water distribution system shall not exceed 3 acre-feet in any year.
- G. If artesian water is encountered, all rules and regulations pertaining So the drilling and casing of artesian wells shall be complied with.

SPECIFIC CONDITIONS OF APPROVAL

(Applicable only when so indicated on the other side of this form.)

- 1. Depth of the well shall not exceed the thickness of the (a) valley fill or (b) Ogallala formation.
- 2. The well shall be constructed to artesian well specifications and the Stage Engineer shall be notified before casing is landed or cemented.
- 3. Appropriation and use of water under this permit shall not exceed a period of one year from the date of approval.
- Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.
- 5. A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of weter; pumping records shall be submitted to the District Supervisor: (a) for each calendar month, on or before the 10th day of the following month (b) on or before the 10th of January, April, July and October of each year for the three preceding calendar months (c) for each calendar year on or before the 10th day of the following year.
- 6. The well shall be plugged upon completion of the permitted use, and a plugging report shall be filed with the State Engineer within 10 days.
- 7. Final approval for the use of the well shall be dependent upon a leakage test made by the State Enginee?.
- 8. Use shall be limited strictly to household, drinking and sanitary purposes; water shall be conveyed from the well to the place of use in closed conduit and the effluent returned to the underground so that it will not appear on the surface. No irrigation of lawns, gardens, trees or use in any type of pool or pond is authorized under this permit.
- 9. No water shall be used from this well unless and until a permit has been issued to an applicant who intends to use the water for any of the purposes describer in § 72-12-1.

INSTRUCTIONS

The application shall be made in the name of the actual user of the well for the purpose specified in the application.

The application shall be filed in triplicate and forwarded with a <u>\$5,00</u> filing fee to the State Engineer. A separate application must be filed for each well to be drilled or used.

If well to be used is an existing well, an explanation (and the file number, if possible) should be given under Remarks (Item 5).

Applications for appropriation, well records and requests for information in the following basins should be addressed to the State Engineer at the location indicated.

Bluewater, Estancia, Río Grande, Sandia, Gallup and San Juan Basins District No. 1, 3311 Candelaria, NE, Suite A, Albuquerque, NM 87107

Capitan, Carlsbad, Curry County, Fort Summer, Hondo, Jal, Lea County, Penasco, Portales, Roswell, Tucumcari and Upper Pecos Basins <u>District No. 2, 1900 West Second Street, Roswell, NM 88201</u>

Animas, Gila-San Francisco, Lordsburg, Nimbres, Nutt-Hockett, Playas, San Simon and Virden Valley Basins District No. 3, P.O. Box 844, Deming, NM 88031

. .

Lower Rio Grande, Tularosa, Hueco, Las Animas Creek and Hot Springs Basins District No. 4, 133 Wyatt Drive, Suite 3, Las Cruces, NM 88005

Canadian River Basin

State Engineer Office, P.O. Box 25102, Santa Fe, NH 87504-5102

PIT 1 25

DISTRICT II

1900 West Second St. Roswell, New Mexico 88201 (505) 622-6521



STATE OF NEW MEXICO STATE ENGINEER OFFICE

ROSWELL

THOMAS C. TURNEY State Engineer

September 3, 1996

Files: CP-850; CP-851

Joe R. Glass P. O. Box 1600, ML-14 Midland, TX 79702

Re: Exxon Corporation

Dear Mr. Glass:

Our records indicate that applications to appropriate underground waters Nos. CP-850 and CP-851 were approved August 17, 1995, with well records and plugging reports due in this office on or before <u>August 31, 1996</u>.

Please advise this office if well No. CP-850 has been drilled.

Specific Condition of Approval No. 6 states: "The well shall be plugged upon completion of the permitted use and a plugging report shall be filed with the State Engineer within 10 days." Otherwise an application for other type use 72-12-1 should be filed.

If you have any questions concerning this matter please contact me.

Yours truly,

Johnny R. Hernandez Lea County Basin Supervisor

JRH/rpa cc: Santa Fe√ 



STATE OF NEW MEXICO

STATE ENGINEER OFFICE

ROSWELL

August 17, 1995

DISTRICT II 1900 West Second St. Roswell, New Mexico 88201 (505) 622-6521

FILES: CP-850; CP-851

Exxon Corporation P. O. Box 1600, ML-14 Midland, TX 79702

Attn: Joe R. Glass, Agent

Dear Mr. Glass:

Please be advised of the following specific conditions of approval as indicated on permits:

Appropriation and use of water under the above numbered permits shall not exceed a period of one year from the date of approval.

Totalizing meters shall be installed before the first branch of the discharge line from the wells and the installation shall be acceptable to the State Engineer; the State Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meters prior to appropriation of water and pumping records shall be submitted to the District Supervisor for each calendar month, on or before the 30th day of the following month.

The wells shall be plugged upon completion of the permitted use and plugging reports shall be filed in the office of the State Engineer within 10 days.

Meter sheets are enclosed for your convenience.

Yours truly, R.L. m. 5

Johnny R. Hernandez Lea County Basin Supervisor

JRH/rpa encl. cc: Santa Fe

Meta sheets made.

	:		ST.	ATE ENGINEE			(·	Page 1:
A REAL				WELL REC	CORD		Re	vised June 197
÷.			Section	1. GENERAL	INFORMATIO	N	4	(6C))
(A) Owner of	well <u>Exxo</u>	n Compan	y USA	(00		Owner'	's Well No	·
Street or City and	Post Office Ad State <u>Midl</u>	ldress <u>P.U.</u> and, Tex	$\frac{BOX 10}{as 7}$	600 9702-1600)	····		
					and is locate			
	SE	NW	NÊ	31			<u> </u>	
8	_ ¼ _ <u>rtv-</u> ¼		<u>™</u> ¼ of S	ection	Township _	<u>20–S.</u> Rang	ge <u>28−E.</u>	N.M.P.N
b. Tract	No	of Map No.	•	of th	e	<u>.</u>	<u> </u>	
								
an Na sa	•			······	•			
d. X=		_ feet, Y=		feet, N	I.M. Coordinate	System		Zone ii Grant
(B) Drilling (rice	1A/T		
						License No) 421	
Address $\frac{P \cdot O}{P \cdot O}$.	
Drilling Began	9/14/9	5 Com	pleted <u>9/</u>	/14/95	Type tools	rotary	Size of hole	<u>7 7/8</u> ir
Elevation of la	nd surface or _			at we	ell is	ft. Total depth c	of well 25	<u>5 </u>
Completed wel		nallow 🗔 a				r upon completion of		
	<u> </u>						Ji wen	
Depth	in Feet	Thickness			R-BEARING S		Estimated	l Vield
From	То	in Feet		Description of	Water-Bearing	Formation	(gallons per	
205	230	25		lime	·		12	· ·
2 may 2 marks	-							
							· · · · · · · · · · · · · · · · · · ·	
Diamatar	Pounda	Threada		on 3. RECORD	· · · · · · · · · · · · · · · · · · ·			
Diameter (inches)	Pounds per foot	Threads per in.		on 3. RECORD in Feet Bottom	OF CASING Length	Type of Shoe	Perf From	orations To
	per foot		Depth	in Feet	Length	Type of Shoe Orange p	From	
(inches)	per foot		Depth Top	in Feet Bottom	Length (feet)		From	To
(inches)	per foot		Depth Top	in Feet Bottom	Length (feet)		From	To
(inches)	per foot		Depth Top	in Feet Bottom	Length (feet)		From	To
(inches)	per foot 8 .188	per in.	Depth Top	RD OF MUDD	Length (feet) 257	orange p	From	To
(inches)	per foot 8 .188	per in.	Depth Top	in Feet Bottom 257 PRD OF MUDD ks C	Length (feet) 257	orange p	From	To
(inches) 6 5/	per foot 8 .188	per in. Section	Depth Top 1 on 4. RECO Sac	in Feet Bottom 257 PRD OF MUDD ks C	Length (feet) 257 DING AND CEM ubic Feet	orange p	From Deel 18	To
(inches) 6 5/	per foot 8 .188	per in. Section	Depth Top 1 on 4. RECO Sac	in Feet Bottom 257 PRD OF MUDD ks C	Length (feet) 257 DING AND CEM ubic Feet	orange p	From Deel 18	To
(inches) 6 5/ Depth From	per foot 8 .188 in Feet To	per in. Section	Depth Top 1 on 4. RECO Sac	in Feet Bottom 257 PRD OF MUDD ks C	Length (feet) 257 DING AND CEM ubic Feet	orange p	From Deel 18	To
(inches) 6 5/	per foot 8 .188 in Feet To	per in. Section	Depth Top 1 on 4. RECO Sac	in Feet Bottom 257 PRD OF MUDD ks C	Length (feet) 257 DING AND CEM ubic Feet	orange p	From Deel 18	To
(inches) 6 5/ Depth From	per foot 8 .188 in Feet To	per in. Section	Depth Top 1 on 4. RECO Sac of M	in Feet Bottom 257 PRD OF MUDD ks C	Length (feet) 257 DING AND CEM ubic Feet f Cement	orange p	From Deel 18	To
(inches) 6 5/ Depth From	per foot 8 .188 in Feet To ctor	per in. Section Hole Diameter	Depth Top 1 on 4. RECO Sac of M Sectio	n in Feet Bottom 257 PRD OF MUDD ks C lud o Dr 5. PLUGGIN	Length (feet) 257 DING AND CEM ubic Feet f Cement	Orange p IENTING Method	of Placement	To
Contraction of the second seco	per foot 8 .188 in Feet To ctor	per in. Section Hole Diameter	Depth Top 1 on 4. RECO Sac of M Sectio	a in Feet Bottom 257 PRD OF MUDD ks C lud o	Length (feet) 257 DING AND CEM ubic Feet f Cement	Orange p IENTING Method	of Placement	To 1 257
Cinches) 6 5/ Depth From Plugging Contra Address Plugging Methodo Date Well Plugg	per foot 8 .188 in Feet To ctor d	per in. Section Hole Diameter	Depth Top 1 on 4. RECO Sac of M Sectio	a in Feet Bottom 257 PRD OF MUDD ks C lud o	Length (feet) 257 DING AND CEM ubic Feet f Cement	Orange p IENTING Method	of Placement	To 1 257
(inches) 6 5/ Depth From Plugging Contra Address Plugging Method Date Well Plugg Plugging approv	per foot 8 .188 in Feet To ctor d	per in. Section Hole Diameter	Depth Top	a in Feet Bottom 257 PRD OF MUDD ks C lud o	Length (feet) 257 DING AND CEM ubic Feet f Cement	Orange p IENTING Method	of Placement	To 1 257
Contraction of the second seco	per foot 8 .188 in Feet To ctor d	per in. Section Hole Diameter	Depth Top 1 on 4. RECO Sac of M Sectio	a in Feet Bottom 257 PRD OF MUDD ks C lud o	Length (feet) 257 DING AND CEM ubic Feet f Cement	Orange p IENTING Method	of Placement	To 1 257
(inches) 6 5/ Depth From Plugging Contra Address Plugging Method Date Well Plugg Plugging approv	per foot 8 .188 in Feet To ctor d ed by:	per in. Section Hole Diameter	Depth Top 1 on 4. RECO Sac of M Section Section FOR USE	entative	Length (feet) 257 DING AND CEM ubic Feet f Cement NG RECORD	Orange p AENTING Method Depth in Fe Top E	of Placement	To 1 257
(inches) 6 5/ Depth From Plugging Contra Address Plugging Method Date Well Plugg Plugging approv	per foot 8 .188 in Feet To ctor d ed by:	per in. Section Hole Diameter	Depth Top	entative	Length (feet) 257 DING AND CEM ubic Feet f Cement NG RECORD No. 1 2 3 4	Orange p (ENTING Method Depth in Fe Top E	of Placement	To 257 ubic Feet f Cement

Released to Imaging: 10/24/2024 8:28:36 AM

Received by OCD: 9/26/2024 2:50:56 PM

...

Page 16 of 65

Depth i	· · · · · · · · · · · · · · · · · · ·	Thickness	Color and Type of Material Encountered	
From	То	in Feet	Color and Type of Material Encountered	ر <u>د است محمد است .</u>
0	8	8	caleche and dirt	. : :::::::::::::::::::::::::::::::::::
8	18	10	red clay	
18	24	6	sand	
24	65	4.1	sandy clay	نگرین
65	84	19	rocky conglomerate	ر جور * 2 مربع
84	92	8	clay conglomerate	
92	110	10	red clay	
110	142	32	tan rocky clay	بالان الم
142	162	20	tan lime	بر المراجع المراجع المراجع
162	164	2	red clay	¥
164	167	3	break	
167	182	15	red clay (some rocks)	, 5 () (******* (*******
182	188	. 6	lime (grey)	
188	205	17	lime with red clay breaks	د به ۲۰۰۰ و که ۲۰۰۰ و ۲۰۰۰ ۲۰۰۰ و ۲۰۰۰ ۲۰۰۰ و ۲۰۰۰
205	230	25	white lime with breaks (water)	ین این این این این این این این این این ا
230	240	10	tan lime and red clay	
240	255	15	red clay	
				ing star Sing star Sing stars Sing stars
				۱۰. در بالا ۱۰. در بالا
	•		·	
			· · · · · · · · · · · · · · · · · · ·	,

Section 7. REMARKS AND ADDITIONAL INFORMATION

'95 SEP. 21 AM 10 34 ROSWELL DEM REXICO

The undersigned hereby certifies that, to the best of his knowledge and belief, the foregoing is a true and correct record of the above described hole.

Confay n ļ Driller

INSTRUCTIONS: This form should be executed in triplicate, preferably typewritten, and submitted to the appropriate district office of the State Engineer. All sections, except from 5, shall be answered as completely and fourately as possible when any well is drilled, repaired or deepened. When this form is used as a plugging record, only Section 1(a) and Section 5 need be completed. Released to Imaging: 10/24/2024 8:28:36 AM

Ţ

2-0442 Page 17 of 65

١

į

.4

09/21/95

WELL RECORD FILED:

•		AD INSTRUCTIONS ON BACK		Revised June 1991
	APPLICATION TO A IN ACCORDANCE WITH SE	PPROPRIATE UNDER CTION 72-12-1 NE	GROUND WATE W MEXICO ST	rs atutes 476
1.	Name and mailing address of applicant:	Fi	te No. <u>CP-851</u>	
	Exxon Corporation (Alex M. C	orrea - Agent)	RECEIVED:	09/10/96
	P.O. Box 1600, ML-14		KECEI VED.	0)/10/30
	Midland, Texas 79702			
2.	Describe well location under one of the f	ollowing subheadings:		
	a. <u>SE k. NW k. NE k</u> of in <u>Eddy</u>	Sec. 31 Twp. 2	0S Rge	28E NMPM,
	b. X = feet, Zone in the	Y =	feet, New Mexic	o Coordinate System Grant.
5.	Approximate depth (if known)255_	feet; outside diamete	er of casing <u>6</u>	5/8" inches.
	Name of driller (if known)Glenn's W	ater Well Service,	Inc., Tatum, N	lew Mexico 882
••	Use of water (check use applied for):	EXISTING WELL		
	One household, non-commercial trees,	lawn and garden not to excee	d one acre.	
-	X Livestock watering.			20 60 60
-	More than one household, non-commercia			
-				
	Drill and test a well intended to be (
	in conjunction with the building or d		and sanitary of sto	·
	in conjunction with the building or d <u>X</u> Drinking and sanitary purposes and the conjunction with a commercial operation	welling unit. e irrigation of non-commerci		d Lawns in 1
_	X Drinking and sanitary purposes and the	welling unit. e irrigation of non-commerci on.	al trees, shrubs an	
	X Drinking and sanitary purposes and the conjunction with a commercial operation	welling unit. e irrigation of non-commercion. tions to discover or develop	al trees, shrubs an	d Lawns in 1
	X Drinking and sanitary purposes and the conjunction with a commercial operation Prospecting, mining or drilling operation	welling unit. e irrigation of non-commerci on. tions to discover or develop a and roads.	al trees, shrubs and natural resources.	d lawns in 11 32
_	 X Drinking and sanitary purposes and the conjunction with a commercial operation Prospecting, mining or drilling operation Construction of public works, highways If any of the last three items were marked Remarks: The use of three (3) a water will be used for sanit 	welling unit. e irrigation of non-commercion. tions to discover or develop a and roads. d, give name and nature of b Cre feet of water p	al trees, shrubs an natural resources. usiness under Remari er year is req	d lawns in 11 32 ks (Item 5). juested. This
_	 X Drinking and sanitary purposes and the conjunction with a commercial operation Prospecting, mining or drilling operation Construction of public works, highways If any of the last three items were market Remarks: The use of three (3) a 	welling unit. e irrigation of non-commercion. tions to discover or develop a and roads. d, give name and nature of b Cre feet of water p	al trees, shrubs an natural resources. usiness under Remari er year is req	d lawns in 11 32 ks (Item 5). juested. This
	 X Drinking and sanitary purposes and the conjunction with a commercial operation Prospecting, mining or drilling operation Construction of public works, highways If any of the last three items were marked Remarks: The use of three (3) a water will be used for sanit 	Welling unit. e irrigation of non-commercion. tions to discover or develop a and roads. d, give name and nature of b <u>cre feet of water p</u> <u>ary purposes at a o</u>	al trees, shrubs and natural resources. usiness under Remark er year is req ne man field o atements are true to	d lawns in 11 33 75 ks (Item 5). uested. This office and for
	 X Drinking and sanitary purposes and the conjunction with a commercial operation Prospecting, mining or drilling operation Construction of public works, highways If any of the last three items were marked Remarks: <u>The use of three (3) a</u> water will be used for sanit livestock watering. 	Welling unit. e irrigation of non-commercion. tions to discover or develop a and roads. d, give name and nature of b <u>cre feet of water p</u> <u>ary purposes at a o</u>	al trees, shrubs and natural resources. usiness under Remark er year is req ne man field o atements are true to	d lawns in 11 33 75 ks (Item 5). uested. This office and for
	 X Drinking and sanitary purposes and the conjunction with a commercial operation Prospecting, mining or drilling operation Construction of public works, highways If any of the last three items were marked Remarks: <u>The use of three (3) a</u> water will be used for sanit <u>livestock watering</u>. <u>Alex M. Correa</u>, <u>a</u> nowledge and belief and that development should be used for sanit <u>Exxon Corporation</u> By: <u>Mathematical Action</u> 	Welling unit. e irrigation of non-commercion. tions to discover or develop a and roads. d, give name and nature of b <u>cre feet of Water p</u> <u>ary purposes at a o</u> ffirm that the foregoing st hall not commence until appr , Applicant	al trees, shrubs and natural resources. usiness under Remark er year is req ne man field o atements are true to	d lawns in 11 32 ks (Item 5). uested. This office and for the best of my has been obtained.
	X Drinking and sanitary purposes and the conjunction with a commercial operation Prospecting, mining or drilling operation Construction of public works, highways If any of the last three items were marked Remarks: <u>The use of three (3) a</u> water will be used for sanit livestock watering.	Welling unit. e irrigation of non-commercion. tions to discover or develop a and roads. d, give name and nature of b <u>cre feet of Water p</u> <u>ary purposes at a o</u> ffirm that the foregoing st hall not commence until appr , Applicant	al trees, shrubs and natural resources. usiness under Remark er year is req ne man field o atements are true to oval of the permit h	d lawns in 11 32 ks (Item 5). uested. This office and for the best of my has been obtained.
	X Drinking and sanitary purposes and the conjunction with a commercial operation Prospecting, mining or drilling operation Construction of public works, highways If any of the last three items were marked Remarks: The use of three (3) a water will be used for sanit livestock watering. , Alex M. Correa mowledge and belief and that development she Exxon Corporation By: Market M. Correa	Welling unit. e irrigation of non-commercion. tions to discover or develop a and roads. d, give name and nature of b <u>cre feet of Water p</u> <u>ary purposes at a o</u> ffirm that the foregoing st hall not commence until appr , Applicant	al trees, shrubs and natural resources. usiness under Remark er year is req ne man field o atements are true to oval of the permit k :	d lawns in 11 32 ks (Item 5). uested. This office and for the best of my has been obtained.
	X Drinking and sanitary purposes and the conjunction with a commercial operation Prospecting, mining or drilling operation Construction of public works, highways If any of the last three items were marked Remarks: The use of three (3) a water will be used for sanit livestock watering. , Alex M. Correa mowledge and belief and that development she Exxon Corporation By: Market M. Correa	Welling unit. e irrigation of non-commercion. tions to discover or develop a and roads. d, give name and nature of b <u>cre feet of water p</u> <u>ary purposes at a o</u> ffirm that the foregoing st hall not commence until appr , Applicant <u>CF STATE ENGINEE</u> indicated, subject to all	al trees, shrubs and natural resources. usiness under Remark er year is req ne man field o atements are true to oval of the permit k :September 6	d lawns in a line of the best of my has been obtained. and to specific
	X Drinking and sanitary purposes and the conjunction with a commercial operation Prospecting, mining or drilling operation Construction of public works, highways If any of the last three items were marked Remarks: The use of three (3) a water will be used for sanit livestock watering. , Alex M. Correa, a mowledge and belief and that development she Exxon Corporation	welling unit. e irrigation of non-commercion. tions to discover or develop a and roads. d, give name and nature of b <u>cre feet of water p</u> ary purposes at a o offirm that the foregoing st aall not commence until appr , Applicant Ø OF STATE ENGINEE indicated, subject to all H on the rev	al trees, shrubs and natural resources. usiness under Remark er year is req ne man field o atements are true to oval of the permit k :	and to specific This permit will
I ki	X Drinking and sanitary purposes and the conjunction with a commercial operation Prospecting, mining or drilling operation Construction of public works, highways If any of the last three items were marked Remarks: <u>The use of three (3) a</u> water will be used for sanit livestock watering. , <u>Alex M. Correa</u> , <u>Alex M. Correa</u> nowledge and belief and that development she Exxon Corporation By: <u>May May May May May May May May May May </u>	welling unit. e irrigation of non-commercian. tions to discover or develop a and roads. d, give name and nature of b <u>cre feet of water p</u> ary purposes at a o diffirm that the foregoing st hall not commence until appr , Applicant K	al trees, shrubs and natural resources. usiness under Remark er year is req ne man field o atements are true to oval of the permit k : September 6 ER general conditions rerse side hereof. e well record fill ER REQUI	and to specific This permit will ed on or before RED
I ki	X Drinking and sanitary purposes and the conjunction with a commercial operation Prospecting, mining or drilling operation Construction of public works, highways If any of the last three items were marked Remarks: The use of three (3) a water will be used for sanit livestock watering. , Alex M. Correa, a mowledge and belief and that development she Atex M. Correa Arex M. Correa Atex M. Correa Arex M. Correa	welling unit. e irrigation of non-commercian. tions to discover or develop a and roads. d, give name and nature of b <u>cre feet of water p</u> ary purposes at a o diffirm that the foregoing st hall not commence until appr , Applicant K	al trees, shrubs and natural resources. usiness under Remark er year is req ne man field o atements are true to oval of the permit k : September 6 ER general conditions rerse side hereof. e well record fill ER REQUI	and to specific This permit will ed on or before

Released to Imaging: 10/24/2024 8:28:36 AM

159

GENERAL CONDITIONS OF APPROVAL

- A. The maximum amount of water that may be appropriated under this permit is 3 acre-feet in any year.
- B. The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated. A licensed driller shall not be required for the construction of a driven well; provided, that the casing shall not exceed two and three-eights (2 3/8) inches outside diameter (Section 72-12-12).
- C. Driller's well record must be filed with the State Engineer within 10 days after the well is drilled or driven. Failure to file the well record within that time shall result in automatic cancellation of the permit. Well record forms will be provided by the State Engineer upon request.
- D. The casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.
- E. If the well under this permit is used at any time to serve more than one household or livestock in a commercial feed lot operation, or for drinking and sanitation purposes in conjunction with a commercial operation, the permittee shall comply with Specific Conditions of Approval number 5(b).
- F. In the event this well is combined with other wells permitted under Section 72-12-1 New Mexico Statutes Annotated, the total outdoor use shall not exceed the irrigation of one acre of non-commercial trees, lawn, and garden, or the equivalent outside consumptive use, and the total appropriation for household and outdoor use from the entire water distribution system shall not exceed 3 acre-feet in any year.
- G. If artesian water is encountered, all rules and regulations pertaining to the drilling and casing of artesian wells shall be complied with.

SPECIFIC CONDITIONS OF APPROVAL

(Applicable only when so indicated on the other side of this form.)

- 1. Depth of the well shall not exceed the thickness of the (a) valley fill or (b) Ogallala formation.
- The well shall be constructed to artesian well specifications and the State Engineer shall be notified before casing is landed or cemented.
- 3. Appropriation and use of water under this permit shall not exceed a period of one year from the date of approval.
- Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.
- 5. A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water; pumping records shall be submitted to the District Supervisor: (a) for each calendar month, on or before the 10th day of the following month (b) on or before the 10th of January, April, July and October of each year for the three preceding calendar months (c) for each calendar year on or before the 10th day of January of the following year.
- 6. The well shall be plugged upon completion of the permitted use, and a plugging report shall be filed with the State Engineer within 10 days.
- 7. Final approval for the use of the well shall be dependent upon a leakage test made by the State Engineer.
- 8. Use shall be limited strictly to household, drinking and sanitary purposes; water shall be conveyed from the well to the place of use in closed conduit and the effluent returned to the underground so that it will not appear on the surface. No irrigation of lawns, gardens, trees or use in any type of pool or pond is authorized under this permit.
- 9. No water shall be used from this well unless and until a permit has been issued to an applicant who intends to use the water for any of the purposes described in § 72-12-1.

INSTRUCTIONS

The application shall be made in the name of the actual user of the well for the purpose specified in the application.

The application shall be filed in triplicate and forwarded with a <u>\$5.00</u> filing fee to the State Engineer. A separate application must be filed for each well to be drilled or used.

If well to be used is an existing well, an explanation (and the file number, if possible)-should be given under Remarks (Item 5).

Applica'' be addresse General Conditions of Approval Bluewater District icumcari Capitan. H. The amount and uses of water permitted under and Upper this Application are subject to such limitations as sins Animas. 🤅 may be imposed by the courts or by lawful District municipal and county ordinances which are more Lower Rie restrictive than applicable State Engineer Regu-**District**

lations and the conditions of this permit.

Released to Imaging: 10/24/2024 8:28:36 AM

Canadian State Eng Received by OCD: 9/26/2024 2:50:56 PM

Ĺ





STATE OF NEW MEXICO STATE ENGINEER OFFICE

'96 SEP 16 AM 11 32 State Engineer ATE ENGINEER OFFICE September 12, 1996 SANTA FE NEW MEXICO

DISTRICT II 1900 West Second St. Roswell, New Mexico 88201 (505) 622-6521

FILE: CP-851

Alex M. Correa Exxon Corporation P. O. Box 1600, ML-14 Midland, TX 79702

Dear Mr. Correa:

Enclosed please find permit No. CP-851 for drinking & sanitary and stock purposes. Your attention is directed to the following specific conditions of approval as indicated on this permit:

The maximum amount of water that may be appropriated this permit is 3 acre-feet in any year.

A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the State Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water and pumping records shall be submitted to the District Supervisor on or before the 10th day of January, April, July and October of each year for the three preceding calendar months.

Meter sheets are enclosed for your convenience.

Yours truly,

Johnny R. Hernandez Lea County Basin Supervisor

JRH/rpa encl. Santa Fe cc:





MIDLAND PRODUCTION ORGANIZATION

OPERATIONS INTEGRITY

September 6, 1996

Files - CP-850; 851 Exxon Corporation Avalon Delaware Unit WSW No. 1 Sec. 31, T20S, R28E Eddy County, NM

State of New Mexico State Engineer Office 1900 West Second St. Roswell, NM 88201

Dear Mr. Hernandez:

Please be advised that well No. CP-850 was not drilled. The renewal application and \$5.00 renewal fee for well No. CP-851 (Avalon Delaware Unit WSW No. 1) is attached. If you have any questions please call me at (915) 688-6782.

Sincerely,

Corre I L Alex M. Correa

ROBVELL NEW MEXICO

amc:nmengr.doc

A DIVISION OF EXXON CORPORATION



Received by OCD: 9/26/2024 2:50:56 PM





STATE OF NEW MEXICO STATE ENGINEER OFFICE

ROSWELL

THOMAS C. TURNEY State Engineer

DISTRICT II 1900 West Second St. Roswell, New Mexico 88201 (505) 622-6521

September 3, 1996

Files: CP-850; CP-851

Joe R. Glass P. O. Box 1600, ML-14 Midland, TX 79702

Re: Exxon Corporation

Dear Mr. Glass:

Our records indicate that applications to appropriate underground waters Nos. CP-850 and CP-851 were approved August 17, 1995, with well records and plugging reports due in this office on or before <u>August 31, 1996</u>.

Please advise this office if well No. CP-850 has been drilled.

Specific Condition of Approval No. 6 states: "The well shall be plugged upon completion of the permitted use and a plugging report shall be filed with the State Engineer within 10 days." Otherwise an application for other type use 72-12-1 should be filed.

If you have any questions concerning this matter please contact me.

Yours truly,

Johnny R. Hernandez Lea County Basin Supervisor

JRH/rpa cc: Santa Fe

ţ

Received by OCD: 9/26/2024 2:50:56 PM





STATE OF NEW MEXICO STATE ENGINEER OFFICE

ROSWELL

THOMAS C. TURNEY State Engineer DISTRICT II 1900 West Second St. Roswell, New Mexico 88201 (505) 622-6521

June 26, 1997

File: CP-851

Karen S. Yarbrough Exxon Company, U.S.A. P. O. Box 1600 Midland, TX 79702-1600

Dear Ms. Yarbrough:

Enclosed please find returned renewal application No. CP-851 and check No. 029439 in the amount of \$5.00. Our records show that a permit No. CP-851 (72-12-1) was approved September 12, 1996 for Drinking and Sanitary purposes and stock use.

The maximum amount of water that may be appropriated under the permit is <u>3 acre-feet of water in any year</u> from well CP-851.

The renewal application will not be necessary unless the present status of the use of the well changes. Water usage reports however, shall continue to be submitted quarterly.

If you have any questions, please feel free to call me at this office.

Yours truly, on t $\partial \mathcal{K}'$

√ohnny R. Hernandez Lea County Basin Supervisor

JRH/rpa encl. cc: Santa Fe V

-)



TO STATE TO STATE OFFICE

'97 JUN 25 AM 10 42

MIDLAND PRODUCTION ORGANIZATION OPERATIONS INTEGRITY

June 24, 1997

File No.: CP-851 Avalon Delaware Unit WSW No. 1 Sec. 31, T20S, R28E Eddy County, New Mexico

Mr. John R. Hernandez State of New Mexico State Engineer Officer 1900 West Second Street Roswell, New Mexico 88201

Dear Mr. Hernandez:

It is our intent to renew our well No. CP-851 and attached is the renewal application and \$5.00 renewal fee. Please contact me at (915) 688-7871 if you have any questions regarding this application.

Sincerely,

Chiling Lau

Karen S. Yarbrough

/ksy:028

i

Attachments

1) Application to Appropriate Underground Waters

2) Check # 029439

A DIVISION OF EXXON CORPORATION

11 a

. م

Page 25 of 65

READ INSTRUCTIONS ON BACK

Revised June 1991

	APPLICAT	ION TO	APPROPH	RIATE UN	DERGI	ROUND W	ATERS	
IN	ACCORDANCE	WITH	SECTION	72-12-1	NEW	MEXICO	STATU	res

97 JUA ile No			0 42	<u> </u>
ite No	CP-	851		
205	Rg	je	28E	NMPM,
				System Grant.
r of cas	ing	6 5	5/8	inches.
nc.,	Fatum	, New	Mexico	882
o one ac	re.			
not to e	xceed a	total d	of one ac	re.
and sani	tary or	stock i	water pur	xoses
al trees	, shrub	s and la	awns in	
natural	resour	ces.		
siness	under Ri	emarks ((Item 5).	
				<u>This</u> for
	feet, f of cas <u>nC.,</u> d one ac not to e and sani al trees natural siness er yea	feet, New P r of casing nc., Tatum d one acre. not to exceed a and sanitary or al trees, shrub natural resources esiness under Ro er year is	feet, New Mexico C r of casing <u>6 5</u> nc., Tatum, New d one acre. Not to exceed a total of and sanitary or stock of all trees, shrubs and la natural resources. Isiness under Remarks of er year is reque	not to exceed a total of one acr and sanitary or stock water purp al trees, shrubs and lawns in

Exxon Corporation , Applicant hough By: <u>Karen S. (M</u> Karen S. Yarbrough

Date: June 19, 1997

1 ł

ACTION OF STATE ENGINEER

This application is approved for the use indicated, subject to all general conditions and to specific _____ on the reverse side hereof. This permit will conditions numbered ____ automatically expire unless this well is drilled or driven and the well record filed on or before

Eluid L. Martinez, State Engineer

By:

Date: ____

File No.__

GENERAL CONDITIONS OF APPROVAL

- A. The maximum amount of water that may be appropriated under this permit is 3 acre-feet in any year.
- B. The well shall be drilled by a driller licensed in the State of New Mexico in accordance with Section 72-12-12 New Mexico Statutes Annotated. A licensed driller shall not be required for the construction of a driven well; provided, that the casing shall not exceed two and three-eights (2 3/8) inches outside diameter (Section 72-12-12).
- C. Driller's well record must be filed with the State Engineer within 10 days after the well is drilled or driven. Failure to file the well record within that time shall result in automatic cancellation of the permit. Well record forms will be provided by the State Engineer upon request.
- D. The casing shall not exceed 7 inches outside diameter except under specific conditions in which reasons satisfactory to the State Engineer are shown.
- E. If the well under this permit is used at any time to serve more than one household or livestock in a commercial feed lot operation, or for drinking and sanitation purposes in conjunction with a commercial operation, the permittee shall comply with Specific Conditions of Approval number 5(b).
- F. In the event this well is combined with other wells permitted under Section 72-12-1 New Mexico Statutes Annotated, the total outdoor use shall not exceed the irrigation of one acre of non-commercial trees, lawn, and garden, or the equivalent outside consumptive use, and the total appropriation for household and outdoor use from the entire water distribution system shall not exceed 3 acre-feet in any year.
- G. If artesian water is encountered, all rules and regulations pertaining to the drilling and casing of artesian wells shall be complied with.

SPECIFIC CONDITIONS OF APPROVAL

(Applicable only when so indicated on the other side of this form.)

- 1. Depth of the well shall not exceed the thickness of the (a) valley fill or (b) Ogallala formation.
- 2. The well shall be constructed to artesian well specifications and the State Engineer shall be notified before casing is landed or cemented.
- 3. Appropriation and use of water under this permit shall not exceed a period of one year from the date of approval.
- 4. Use shall be limited to household, non-commercial trees, lawn and garden not to exceed one acre and/or stock use.
- 5. A totalizing meter shall be installed before the first branch of the discharge line from the well and the installation shall be acceptable to the State Engineer; the Engineer shall be advised of the make, model, serial number, date of installation, and initial reading of the meter prior to appropriation of water; pumping records shall be submitted to the District Supervisor: (a) for each calendar month, on or before the 10th day of the following month (b) on or before the 10th of January, April, July and October of each year for the three preceding calendar months (c) for each calendar year on or before the 10th day of January of the following year.
- 6. The well shall be plugged upon completion of the permitted use, and a plugging report shall be filed with the State Engineer within 10 days.
- 7. Final approval for the use of the well shall be dependent upon a leakage test made by the State Engineer.
- 8. Use shall be limited strictly to household, drinking and sanitary purposes; water shall be conveyed from the well to the place of use in closed conduit and the effluent returned to the underground so that it will not appear on the surface. No irrigation of lawns, gardens, trees or use in any type of pool or pond is authorized under this permit.
- 9. No water shall be used from this well unless and until a permit has been issued to an applicant who intends to use the water for any of the purposes described in § 72-12-1.

INSTRUCTIONS

The application shall be made in the name of the actual user of the well for the purpose specified in the application.

The application shall be filed in triplicate and forwarded with a \$5.00 filing fee to the State Engineer.

A separate application must be filed for each well to be drilled or used.

If well to be used is an existing well, an explanation (and the file number, if possible) should be given under Remarks (Item 5).

Applications for appropriation, well records and requests for information in the following basins should be addressed to the State Engineer at the location indicated.

Bluewater, Estancia, Rio Grande, Sandia, Gallup and San Juan Basins District No. 1, 3311 Candelaria, NE, Suite A, Albuquerque, NM 87107

Capitan, Carlsbad, Curry County, Fort Summer, Hondo, Jal, Lea County, Penasco, Portales, Roswell, Tucumcari and Upper Pecos Basins <u>District No. 2, 1900 West Second Street, Roswell, NM 88201</u>

Animas, Gila-San Francisco, Lordsburg, Mimbres, Nutt-Hockett, Playas, San Simon and Virden Valley Basins <u>District No. 3, P.O. Box 844, Deming, NM 88031</u>

Lower Rio Grande, Tularosa, Hueco, Las Animas Creek and Hot Springs Basins District No. 4, 133 Wyatt Drive, Suite 3, Las Cruces, NM 88005

Canadian River Basin State Engineer Office, P.O. Box 25102, Santa Fe, NM 87504-5102 · la ser



HOUSTON PRODUCTION ORGANIZATION PERMITTING

• Rosmell

OFFICE OF STATE ENGINEER SANTA FE, NEW MEXICO '99 DEC 15 PM 2 22

December 9, 1999

Notification of Name Change from Exxon Corporation to Exxon Mobil Corporation

CP-851

New Mexico Office of the State Engineer Water Rights Division Attn: Mr. Paul Saaverdra P. O. Box 25102 Santa Fe, NM 87505

Dear Mr. Robinson,

As you may be aware, Exxon Corporation and Mobil Corporation recently finalized a merger and realigned its business. The media and other reports, however, often fail to provide details of the corporate structure that may be of interest to governmental agencies.

Exxon Corporation will undergo a name change to Exxon Mobil Corporation. Exxon Mobil Corporation will remain the owner and operator of its existing properties and facilities, as well as relevant permits. Mobil Corporation will merge with an existing Exxon subsidiary, after which Mobil Corporation will become a subsidiary of Exxon Mobil Corporation. Mobil Corporation's subsidiaries will continue to own their own assets and act as operator of its assets after the merger as it did prior to the merger. Neither Mobil Corporation nor its subsidiaries will undergo a name change.

Please note the name change to Exxon Mobil Corporation in your records pertaining to any Exxon permits.

If you have any questions, please contact me at 713-431-1125.

Yours truly,

fal Lelacan

Roland L. Moreau Acting Environmental & Regulatory Manager

A DIVISION OF EXXON CORPORATION

Received by OCD: 9/26/2024 2:50:56 PM

24 L - 24

LIST OF EXXON MOBIL CORPORATION NEW MEXICO FRESH WATER WELLS

Avalon Delaware Unit, Water Source Well No. 1 Permit No. CP-851 Eddy County, New Mexico

200 J.W 28 M H: 40

Analytical Report 638613

for

LT Environmental, Inc.

Project Manager: Dan Moir

ADU 157 (2RP-4778)

012918118

08-OCT-19

Collected By: Client



1089 N Canal Street Carlsbad, NM 88220

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142), North Carolina (681)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)

P Page 30 of 65



08-OCT-19

Project Manager: **Dan Moir LT Environmental, Inc.** 4600 W. 60th Avenue Arvada, CO 80003

Reference: XENCO Report No(s): 638613 ADU 157 (2RP-4778) Project Address: Carlsbad, NM

Dan Moir:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 638613. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 638613 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Jessiga WRAMER

Jessica Kramer Project Assistant

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America

Page 2 of 12



Sample Id WS01

Sample Cross Reference 638613

LT Environmental, Inc., Arvada, CO

ADU 157 (2RP-4778)

Matrix Date Collected W 10-01-19 11:20

Sample Depth

Lab Sample Id 638613-001

Version: 1.%



CASE NARRATIVE

Client Name: LT Environmental, Inc. Project Name: ADU 157 (2RP-4778)

Project ID: 012918118 Work Order Number(s): 638613 Report Date: 08-OCT-19 Date Received: 10/01/2019

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

AIIS/2020 3:37:19 PM	012918118	Dan Moir
eived by OCD: 4	Project Id:	Contact:

Certificate of Analysis Summary 638613 LT Environme **Project Name**

e: ADU 157 (2RP-4778)		
	Date Received in Lab:	b: Tue Oct-01-19 12:55
	Report Date: 0	08-OCT-19

Project Location: Carlsback of Carlsback of Contact: Dan Moir Project Location: Carlsback NM		Certificate of Analysis Summary 638613 LT Environmental, Inc., Arvada, CO Project Name: ADU 157 (2RP-4778) Date	538613 Page 181 of 1 Date Received in Lab: Tue Oct-01-19 12:55 pm Report Date: 08-OCT-19 Project Manager: Jessica Kramer
	Lab Id:	638613-001	
Analysis Dogustad	Field Id:	WS01	
naicanhay ciclinut	Depth:		
	Matrix:	WATER	
	Sampled:	Oct-01-19 11:20	
TDS by SM2540C	Extracted:		
SUB: T104704400-19-19	Analyzed:	Oct-03-19 15:00	
	Units/RL:	mg/L RL	
Total Dissolved Solids		11600 5.00	

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Version: 1.%



Released to Imaging: 9/20/2021 3:31:45 PM

Final 1.000

1



Certificate of Analytical Results 638613

LT Environmental, Inc., Arvada, CO

ADU 157 (2RP-4778)

WS01 Sample Id: Matrix: Date Received:10.01.19 12.55 Water Lab Sample Id: 638613-001 Date Collected: 10.01.19 11.20 Analytical Method: TDS by SM2540C SPC Tech: % Moisture: SPC Analyst: Seq Number: 3103415 SUB: T104704400-19-19 Parameter **Cas Number** Result RL Units Analysis Date Flag Dil

Total Dissolved Solids

1642222

11600 5.00

10.03.19 15.00

mg/L



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- BRL Below Reporting Limit.
- **RL** Reporting Limit
- MDL Method Detection Limit SDL Sample Detection Limit LOD Limit of Detection
- PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation
- DL Method Detection Limit
- NC Non-Calculable

SMP Client Sample		BLK	Method Blank	
BKS/LCS Blank Spike/Labo	ratory Control Sample	BKSD/LCSD	Blank Spike Duplicate	e/Laboratory Control Sample Duplicate
MD/SD Method Duplicate	Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate
+ NELAC continuation not a	fared for this compound			

NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



Analytical Matheds The L. CMPE400

QC Summary 638613

LT Environmental, Inc. ADU 157 (2RP-4778)

MB Sample Id:	3103415 3103415-1-BLK			Matrix: nple Id:	Water 3103415-	1-BKS		LCS	D Sample I	ld: 310	3415-1-BSD	
Parameter	MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	<5.00	1000	985	99	986	99	80-120	0	10	mg/L	10.03.19 15:00	

Analytical Method: Seq Number: Parent Sample Id:	TDS by SM2540C 3103415 638660-003	Matrix: MD Sample Id:						
Parameter	Parent Result	MD Result		%RPD	RPD Limit	Units	Analysis Date	Flag
Total Dissolved Solids	1130	1130		0	10	mg/L	10.03.19 15:00	
Analytical Method:	TDS by SM2540C							
Seq Number:	3103415	Matrix:	Water					
Parent Sample Id:	638845-007	MD Sample Id:	638845-007 D					

Parent Sample Id:	638845-007	MD Sam	
Parameter	Parent Result	MD Result	
Total Dissolved Solids	1710	1720	

%RPD	RPD Limit	Units	Analysis Date	Flag
1	10	mg/L	10.03.19 15:00	

MS/MSD Percent Recovery Relative Percent Difference LCS/LCSD Recovery Log Difference [D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)
$$\begin{split} LCS &= Laboratory \ Control \ Sample \\ A &= Parent \ Result \\ C &= MS/LCS \ Result \\ E &= MSD/LCSD \ Result \end{split}$$

MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec
OCD: 9/26// Received by: (Signature) Received by: (Signature) Received by: (Signature)	Relinguished by: (Signature)		02;11 bilitor M 105M	× Dat Samp	SAMPLE RECEIPT Temp Blank: Yes No Wet Ice: Met Ice: MetIce: <t< th=""><th>Project Location CAIshad, NM Rush: Sampler's Name: Rea Relia Due D PO #: Due D</th><th>CPORSI Rou</th><th>Phone: 43C. C56, 3849 Email:</th><th>Midland, Th</th><th>Ant</th><th>Project Manager: Das Mair</th></t<>	Project Location CAIshad, NM Rush: Sampler's Name: Rea Relia Due D PO #: Due D	CPORSI Rou	Phone: 43C. C56, 3849 Email:	Midland, Th	Ant	Project Manager: Das Mair
ure) Pate/Time Relinquished by: (Signature)	es and shall not assume any responsibility for any losses or expenses incurred by the client if such losses are due to circumstances beyond the is ach project and a charge of \$5 for each sample submitted to Xenco, but not analyzed. These terms will be enforced unless previously negotiated Received by: (Signature) Date/Time Received by: (Signature)	BRCRA 13PPM Texas 11 AI Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg		Depth	of Containers	Rush: Due Date:	Routine 🕅 Code Pres.	bbelille lacent, con	City, State ZIP: Carlobad, NM 88220	ATD Energy	Bill to: (If different) Kyle LHA-U
ture) Received by: (Signature) Date/Time		b Mg Mn Mo Ni K Se Ag SiO2 Na Sr TI Sn U V Zn 4 Ag TI U 1631/245.1/7470 /7471 : Hg		Sample Comments	HCL: HL NaOH: Na Zn Acetate+ NaOH: Zn TAT starts the day received by the lab. it	None: NO HNO3: HN H2S04: H2	EQUEST Preservative Codes	Deliverables: EDD ADaPT Other:	Reporting:Level II Level III PST/UST TRRP Level IV		Us61 689-6701 Work Order Comments

OS Number		49088	
Date/Time:		10/01/19 14:56	
Lab# From:		Carlsbad	De
Lab# To: Midland	Mid	land	
V pp pl p	Matrix	Matrix Client Sample Id	Sample C
38613-001	M	10SM	10/01

Created by: Elizabeth Mcclellan Delivery Priority:

Air Bill No.: 776429985847

Address: 1089 N Canal Street

Please send report to: Jessica Kramer

E-Mail: jessica.kramer@xenco.com

Client Sample	e Id Sample Collection	Method	Method Name	Lab Due	HT Due	PM	Analytes	Sign
	10/01/19 11:20	SM2540C	TDS by SM2540C	10/02/19	10/08/16	JKR TDS		

Inter Office Shipment or Sample Comments:

22 Relinquished By:

Elizabeth McClellan

Date Relinquished: 10/01/2019

Parker lal Brianna Teel Received By:

Date Received: 10/02/2019 11:14

Cooler Temperature: 2,1

Received by OCD: 9/26/2024 2:50:56 PM

TORIES

XENCO Laboratories

Inter Office Report- Sample Receipt Checklist

Sent To: Midland IOS #: 49088

Acceptable Temperature Range: 0 - 6 degC Air and Metal samples Acceptable Range: Ambient Temperature Measuring device used : R8

Sent By:	Elizabeth McClellan	Date Sent:	10/01/2019 02:56 PM	
Received By	: Brianna Teel	Date Received:	10/02/2019 11:14 AM	

Sample Receipt Checklist

Comments

euripie receipt encern	01
#1 *Temperature of cooler(s)?	2,1
#2 *Shipping container in good condition?	Yes
#3 *Samples received with appropriate temperature?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 *Custody Seals Signed and dated for Containers/coolers	Yes
#6 *IOS present?	Yes
#7 Any missing/extra samples?	No
#8 IOS agrees with sample label(s)/matrix?	Yes
#9 Sample matrix/ properties agree with IOS?	Yes
#10 Samples in proper container/ bottle?	Yes
#11 Samples properly preserved?	Yes
#12 Sample container(s) intact?	Yes
#13 Sufficient sample amount for indicated test(s)?	Yes
#14 All samples received within hold time?	Yes

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

NonConformance:

Corrective Action Taken:

Contact:

Nonconformance Documentation

Contacted by :

Date:

Checklist reviewed by:

Brianna Teel

Date: 10/02/2019

Received by OCD: 9/26/2024 2:50:56 PM

DRIES

XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: LT Environmental, Inc.	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 10/01/2019 12:55:00 PM	Air and Metal samples Acceptable Range: Ambient
Work Order #: 638613	Temperature Measuring device used : T-NM-007
Sample R	eceipt Checklist Comments
#1 *Temperature of cooler(s)?	4
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container/ cooler?	Yes
#5 Custody Seals intact on sample bottles?	Yes
#6*Custody Seals Signed and dated?	Yes
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	Yes
#9 Chain of Custody signed when relinquished/ received	? Yes
#10 Chain of Custody agrees with sample labels/matrix?	Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test(s)?	Yes
#16 All samples received within hold time?	Yes
#17 Subcontract of sample(s)?	Yes Subbed to Midland
#18 Water VOC samples have zero headspace?	N/A

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Checklist completed by:

Elizabeth McClellan

Date: 10/01/2019

Checklist reviewed by:

fession kenner

Jessica Kramer

Date: 10/03/2019



APPENDIX B

Photographic Log





APPENDIX C

Lithologic Soil Sampling Logs

•

		Sample Name: BH01	Date: 09/23/2024
	ISOLU	Site Name: Avalon UT 657	125000
			0136803
		Job Number: 03C1558535	
	GIC / SOIL SAMPLING LOG	Logged By: AV	Method: Hand Auger
Coordinates: 32.534608, -10		Hole Diameter: 4"	Total Depth: 1.0'
	conducted with HACH Chloride Test S n factor of soil to distilled water. A 40%		espectively. Chloride test
Moisture <u>Content</u> Chloride (ppm) Vapor (ppm) Staining	o ♀ Sample	Syu	c Descriptions
D 5,443 297 Y	BH01 0.5 4 0	(0-1') SAND - silty sand SP non-plastic, cohesive,	, Dark tan, very fine, Hydrocarbon odor present
D 10,802 704 Y		CCHE (1') CALICHE, large cali some fine grain sand, c t bgs - Hand Auger Refusal	che fragments, trace silt, odor, hydrocarbon staining

•

								Sample Name: BH02	Date: 09/23/2024
			N			LU	R A	Site Name: Avalon UT 657	-
	•							Incident Number: nAPP2420	136803
								Job Number: 03C1558535	
		LITHOL	OGI	C / SOIL S	SAMPLING	G LOG		Logged By: AV	Method: Hand Auger
Coordi	inates: 32	2.533460	8, -10	04.213520				Hole Diameter: 4"	Total Depth: 5'
			-					PID for chloride and vapor, r	espectively. Chloride test
perfor	med with	n 1:4 dilu	tion f	actor of so	il to distilled	water. A 40	0% correcti	on factor was included.	
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol		c Descriptions
D	-	352	Y	BH02	0.5	0	SP	(0-4') SILTY SAND, dark	tan, some gravel, odor
D	-	1300	Y		1	1	SW-SM	(@1') trace caliche	
D	-	1161	Y		2	2	SW-SM		
D	-	1520	Ν		3	3	SW-SM		
D	-	1310	Ν		4	4	SW-SM		
D	-	433	N	BH02A	5 Total Dep	5 th @ 5 fe	SP et bgs - H	(@5') SAND, reddish ta Iand Auger Refusal	n, with silt, some clay
						\sim			
							$\overline{}$		
								\sim	
									$\overline{\}$

•

								Sample Name: BH03	Date: 09/23/2024
			N			LU	N	Site Name: Avalon UT 657	
								Incident Number: nAPP242013	36803
							<u></u>	Job Number: 03C1558535	
		LITHOL	OGI	C / SOIL S	SAMPLING	GLOG		Logged By: AV	Method: Hand Auger
Coord	dinates: 32	2.534490	, -10	4.213867				Hole Diameter: 4"	Total Depth: 7'
								PID for chloride and vapor, res ion factor was included.	spectively. Chloride test
Moisture Content	Chloride (ppm)	Vapor (ppm)	Staining	Sample ID	Sample Depth (ft bgs)	Depth (ft bgs)	USCS/Rock Symbol	Lithologic	Descriptions
D	-	426	Y	BH03	0.5	0	SP	(0-2') SAND, with silt, bro poorly graded, with clay,	own, with gravel, , low plasticity, odor
D	-	365	Y		1	1			
D	-	406	Y		2	2	SW-SM	(2-5') SILTY SAND, white poorly graded, odor	-tan, caliche present,
					-	3			
					-	4			
D	-	225	N	BH03A	5	5	SP-SM	(5-7') SANDY SILT, tan, p	oorly graded
					-	6			
D	-	85.9	Ν	BH03B	7	7 Total De	SP-SC pth @ 7	(7') SAND, reddish tan, w feet bgs	vith silt, trace clay
		_							



APPENDIX D

Laboratory Analytical Reports & Chain of Custody Documentation



September 24, 2024

TRACY HILLARD ENSOLUM 3122 NATIONAL PARKS HWY CARLSBAD, NM 88220

RE: AVALON UT 657

Enclosed are the results of analyses for samples received by the laboratory on 09/23/24 16:34.

Cardinal Laboratories is accredited through Texas NELAP under certificate number TX-C24-00112. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



		ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:	(
Received:	09/23/2024		Sampling Date:	09/	20/2024
Reported:	09/24/2024		Sampling Type:	Soil	
Project Name:	AVALON UT 657		Sampling Condition:	Coc	l & Intact
Project Number:	03C1558535		Sample Received By:	Alys	ssa Parras
Project Location:	XTO				

Sample ID: BH 01 0.5' (H245768-01)

BTEX 8021B	mg/	kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2024	ND	2.12	106	2.00	1.49	
Toluene*	0.339	0.050	09/24/2024	ND	2.08	104	2.00	0.802	
Ethylbenzene*	0.890	0.050	09/24/2024	ND	2.14	107	2.00	0.571	GC-NC1
Total Xylenes*	8.69	0.150	09/24/2024	ND	6.42	107	6.00	0.777	
Total BTEX	9.92	0.300	09/24/2024	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	469 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	09/24/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	575	50.0	09/23/2024	ND	205	102	200	1.86	
DRO >C10-C28*	12700	50.0	09/23/2024	ND	213	106	200	0.759	
EXT DRO >C28-C36	2420	50.0	09/23/2024	ND					
Surrogate: 1-Chlorooctane	155 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	299 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:	(
Received:	09/23/2024		Sampling Date:	09/20/2024	
Reported:	09/24/2024		Sampling Type:	Soil	
Project Name:	AVALON UT 657		Sampling Condition:	Cool & Intact	
Project Number:	03C1558535		Sample Received By:	Alyssa Parras	
Project Location:	XTO				

Sample ID: BH 01A 1' (H245768-02)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/23/2024	ND	2.12	106	2.00	1.49	GC-NC
Toluene*	3.15	0.200	09/23/2024	ND	2.08	104	2.00	0.802	
Ethylbenzene*	4.91	0.200	09/23/2024	ND	2.14	107	2.00	0.571	GC-NC1
Total Xylenes*	25.5	0.600	09/23/2024	ND	6.42	107	6.00	0.777	
Total BTEX	33.5	1.20	09/23/2024	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	225	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	8260	16.0	09/24/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	726	50.0	09/23/2024	ND	205	102	200	1.86	
DRO >C10-C28*	8970	50.0	09/23/2024	ND	213	106	200	0.759	
EXT DRO >C28-C36	1670	50.0	09/23/2024	ND					
Surrogate: 1-Chlorooctane	199	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	213	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:	(
Received:	09/23/2024		Sampling Date:	09/20/2024
Reported:	09/24/2024		Sampling Type:	Soil
Project Name:	AVALON UT 657		Sampling Condition:	Cool & Intact
Project Number:	03C1558535		Sample Received By:	Alyssa Parras
Project Location:	XTO			

Sample ID: BH 03 0.5' (H245768-03)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2024	ND	2.12	106	2.00	1.49	
Toluene*	0.520	0.050	09/23/2024	ND	2.08	104	2.00	0.802	
Ethylbenzene*	5.01	0.050	09/23/2024	ND	2.14	107	2.00	0.571	GC-NC1
Total Xylenes*	25.5	0.150	09/23/2024	ND	6.42	107	6.00	0.777	
Total BTEX	31.0	0.300	09/23/2024	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	780 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	09/24/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	1970	50.0	09/23/2024	ND	205	102	200	1.86	
DRO >C10-C28*	21500	50.0	09/23/2024	ND	213	106	200	0.759	
EXT DRO >C28-C36	3750	50.0	09/23/2024	ND					
Surrogate: 1-Chlorooctane	472 9	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	476 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:	(
Received:	09/23/2024		Sampling Date:	09/20/2024	
Reported:	09/24/2024		Sampling Type:	Soil	
Project Name:	AVALON UT 657		Sampling Condition:	Cool & Intact	
Project Number:	03C1558535		Sample Received By:	Alyssa Parras	
Project Location:	XTO				

Sample ID: BH 03A 5' (H245768-04)

BTEX 8021B	mg,	′kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2024	ND	2.12	106	2.00	1.49	
Toluene*	<0.050	0.050	09/23/2024	ND	2.08	104	2.00	0.802	
Ethylbenzene*	0.209	0.050	09/23/2024	ND	2.14	107	2.00	0.571	GC-NC1
Total Xylenes*	1.17	0.150	09/23/2024	ND	6.42	107	6.00	0.777	
Total BTEX	1.38	0.300	09/23/2024	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	154	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	09/24/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	60.9	10.0	09/23/2024	ND	205	102	200	1.86	
DRO >C10-C28*	1250	10.0	09/23/2024	ND	213	106	200	0.759	
EXT DRO >C28-C36	206	10.0	09/23/2024	ND					
Surrogate: 1-Chlorooctane	109	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	99.1	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:	,		
Received:	09/23/2024		Sampling Date:	09/20/2024	
Reported:	09/24/2024		Sampling Type:	Soil	
Project Name:	AVALON UT 657		Sampling Condition:	Cool & Inta	ct
Project Number:	03C1558535		Sample Received By:	Alyssa Parra	is
Project Location:	ХТО				

Sample ID: BH 03B 7' (H245768-05)

BTEX 8021B	mg/	′kg	Analyze	d By: JH					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2024	ND	2.12	106	2.00	1.49	
Toluene*	<0.050	0.050	09/23/2024	ND	2.08	104	2.00	0.802	
Ethylbenzene*	<0.050	0.050	09/23/2024	ND	2.14	107	2.00	0.571	
Total Xylenes*	0.210	0.150	09/23/2024	ND	6.42	107	6.00	0.777	
Total BTEX	<0.300	0.300	09/23/2024	ND					
Surrogate: 4-Bromofluorobenzene (PID	113 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/24/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	′kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	14.2	10.0	09/23/2024	ND	205	102	200	1.86	
DRO >C10-C28*	490	10.0	09/23/2024	ND	213	106	200	0.759	
EXT DRO >C28-C36	89.4	10.0	09/23/2024	ND					
Surrogate: 1-Chlorooctane	110 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	108 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:	(
Received:	09/23/2024		Sampling Date:	09/20/2024	
Reported:	09/24/2024		Sampling Type:	Soil	
Project Name:	AVALON UT 657		Sampling Condition:	Cool & Intact	
Project Number:	03C1558535		Sample Received By:	Alyssa Parras	
Project Location:	XTO				

Sample ID: BH 02 0.5' (H245768-06)

BTEX 8021B	mg/	kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/24/2024	ND	2.12	106	2.00	1.49	GC-NC
Toluene*	0.670	0.050	09/24/2024	ND	2.08	104	2.00	0.802	
Ethylbenzene*	0.707	0.050	09/24/2024	ND	2.14	107	2.00	0.571	GC-NC
Total Xylenes*	8.83	0.150	09/24/2024	ND	6.42	107	6.00	0.777	
Total BTEX	10.2	0.300	09/24/2024	ND					GC-NC
Surrogate: 4-Bromofluorobenzene (PID	471 9	% 71.5-13	4						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3000	16.0	09/24/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	618	50.0	09/23/2024	ND	205	102	200	1.86	
DRO >C10-C28*	13400	50.0	09/23/2024	ND	213	106	200	0.759	
EXT DRO >C28-C36	2670	50.0	09/23/2024	ND					
Surrogate: 1-Chlorooctane	164 9	48.2-13	4						
Surrogate: 1-Chlorooctadecane	295	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



		ENSOLUM TRACY HILLARD 3122 NATIONAL PARKS HWY CARLSBAD NM, 88220 Fax To:	(
Received:	09/23/2024		Sampling Date:	09/20/2024
Reported:	09/24/2024		Sampling Type:	Soil
Project Name:	AVALON UT 657		Sampling Condition:	Cool & Intact
Project Number:	03C1558535		Sample Received By:	Alyssa Parras
Project Location:	XTO			

Sample ID: BH 02A 5' (H245768-07)

BTEX 8021B	mg	/kg	Analyze	d By: JH					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/23/2024	ND	2.12	106	2.00	1.49	
Toluene*	0.258	0.050	09/23/2024	ND	2.08	104	2.00	0.802	
Ethylbenzene*	0.640	0.050	09/23/2024	ND	2.14	107	2.00	0.571	GC-NC1
Total Xylenes*	2.66	0.150	09/23/2024	ND	6.42	107	6.00	0.777	
Total BTEX	3.56	0.300	09/23/2024	ND					GC-NC1
Surrogate: 4-Bromofluorobenzene (PID	163	% 71.5-13	4						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6720	16.0	09/24/2024	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10*	162	10.0	09/23/2024	ND	205	102	200	1.86	
DRO >C10-C28*	1760	10.0	09/23/2024	ND	213	106	200	0.759	
EXT DRO >C28-C36	310	10.0	09/23/2024	ND					
Surrogate: 1-Chlorooctane	137	% 48.2-13	4						
Surrogate: 1-Chlorooctadecane	118 9	% 49.1-14	8						

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
GC-NC1	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are biased high with interfering compounds.
GC-NC	8260 confirmation analysis was performed; initial GC results were not supported by GC/MS analysis and are reported as ND.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager

nager: Trucy VI: Noted PO. #: 112 National Parks Hwy Sale: NN Zip: 88220 Attr:: An-y & Lip: 48220 had Sale: NN Zip: 88220 Attr:: An-y & Lip: 48220 OSL (SSGS) Project Owner: Cip: 42020 Attr:: An-y & Lip: 48220 attr:: An-y & Lip: 88220 Attr:: An-y & Lip: 48220 Attr:: An-y & Lip: 482720 attr:: An-y & Lip: 88220 Sale: Nn. Zip: 88220 Nate: An-y & Lip: 482720 attr:: An-y & Lip: 88220 Sale: Nn. Zip: 882720 Project Owner: me: A-2_Coll Volution Far.# Project Owner: me: A-2_Coll Volution Far.# Project Owner: Project Owner: me: A-2_Coll Volution Far.# Project Owner: Project Owner: me: A-2_Coll Volution Far.# Project Owner: Project Owner: Sample I.D. Depth (feet) RASIL Project Owner: Project Owner: Sample I.D. Depth Gip B Coll Diverse Transfer Project Owner: Project Owner: Sample I.D. Depth Gip B Coll Diverse Transfer Project Owner: Project Owner: Sample Coll Sample Coll Diverse Transfer Far. Project Owner: Project Owner: Sample Coll Far.			BUNGAN	
National Parks Hwy State: NM Zip: 89220 Atm: Arwy Au S - 9/37-3900/ Fax #: Adress: 3/64/6 Adress: 3/64/6 CI SS SS S Project Owner: City: Cacusbud Aldress: 3/64/6 City: Cacusbud Adress: 3/64/6 Aldress: 3/64/6 Sample LD. Depth City: Cacusbud No. Low UT GS Phone #: Fax #: Aldress: 3/64/6 City: Cacusbud Phone #: Fax #: BHo11 City: Cacusbud City: Cacusbud Phone #: BHo21 City: Cacusbud City: Cacusbud Phone #: BHo33 Fitter Fax #: City: Cacusbud Phone #: BHo34 Fax #: City: Cacusbud Phone #: BHo36 Fax #:	Project Manager: Treacy	H: Nasa	CARE	ANALYSIS REQUEST
had State: NM Zip: 88220 Atm: Aury Au 03C1/SSES35 Project Owner: City: Address: 3/G, & ne: DVG.10x UT GFT State: NM adion: Project Owner: City: Carsulation State: NM ne: DVG.10x UT GFT State: NM Zip: 88220 adion: Phone #: Phone #: Phone #: ne: Depth (feet) Phone #: Phone #: No Gip RaB D R (C)OMP. Fax #: Phone #: No Gip RaB D R (C)OMP. Fax #: Phone #: No Gip RaB D R (C)OMP. Fax #: Phone #: BHO1 O.S. Gip RAB D R (C)OMP. Phone #: BHO2 O.S. Gip RAB D R (C)OMP. Phone #: BHO3 G.S. Gip RAB D R (C)OMP. Phone #: BHO3 G.S. Gip RAB D R (C)OMP. Phone #: BHO3 G.S. Gip RAB D R (C)OMP. Phone #: BHO3 G.S. Gip RAB D R (C)OMP. Phone #: BHO3 G.S. Gip RAB D R (C)OMP. Phone #: BHO3 G.S. Gip RAB D R (C)OMP. Phone #: BHO3 G.S. Gip RAB D R (C)OMP. Phone #:	Address: 3122 National Parks H	łwy	Freezer	
DFLS VICLOW Fax #: Address: Top (C) ne: MOLOW Top (C) State: M, Zip: 8 ation: Project Owner: State: M, Zip: 8 me: A.C. Q. VOLOM Top T ation: Depth C(C) wr Fax #: Fax #: wr Fax #: Fax #: wr Fax #: Fax #: wr BHD C(C) Fax #: BHD C.S. Sample I.D. Ifeet MATRX Presservice Sup BHD C.S. Sample I.D. Depth C(C) CNNTAINER Fax #: Fax #: BHD C.S. Sample I.D. Depth C(C) CNNTAINER Fax #: Fax #: BHD C.S. Sample Control Number Area on another and the second another	1	State: NM	Awy RUTH	
OSCUSSESS Project Owner: City: Curculation ne: Maclaw UT WST State: MA_ZIP: State: MA_ZIP: attion: Phone #: Phone #: Phone #: ne: A Z C O' VOJ Claud Fax #: Fax #: No Interview Interview Phone #: No Interview Interview Interview BHOL Interview Interview Intervie		5	Address: 3 104 E. Garrant	
me: Mc I own UT WT State: MM Zip: B adion: me: A 2 Coll Void Cult Phone #: me: A 2 Coll Void Cult Fax #: Phone #: wer Sample I.D. Depth (feet) Depth (feet) Coll MA BHOL P G G G I BHOL P G G I PRESERV (Gill Constantineers) SM BHOL P G G I I PRESERV (Gill Constantineers) SM BHOL P G G I GROUNDWATER (Gill GROUNDWATER Constantineers) DATE DATE BHO3 A S G I I I I I BHO3 B G G I I I I I BHO3 B G G I I I I I BHO3 B G G I I I I I I BHO3 B G G I I I I I I I BHO3 B G G I I I I I I I I I I I I I I I I <td< td=""><td>Project #: 03 C/ 55853</td><td></td><td>City: Contestant</td><td></td></td<>	Project #: 03 C/ 55853		City: Contestant	
ation: Provide and the second secon		6	5	
Imme: A 2 C of V 0 J d out Fax #: ver Sample I.D. Depth (feet) Depth (feet) PRESERV 0 J d out Sample J d out SH01 Differ 0 S d out 0 S d out Depth (feet) Differ SH01 0 S d out 0 S d out 0 J d out Depth (feet) Differ SH01 0 S d out 0 S d out 0 J d out Dup SH01 0 S d out 0 J d out 0 J d out 0 J d out SH03 0 S d out 0 J d out 0 J d out 0 J d out SH03 0 S d out 0 J d out 0 J d out 0 J d out SH03 0 S d out 0 J d out 0 J d out 0 J d out SH04 0 S d out 0 J d out 0 J d out 0 J d out SH03 0 J d out 0 J d out 0 J d out 0 J d out SH04 0 J d out 0 J d out 0 J d out 0 J d out SH05 0 J d out 0 J d out 0 J d out 0 J d out SH04 0 J d out 0 J d out 0 J d out 0 J d out SH05 0 J d out 0 J d out 0 J d out 0 J d out SH05 0 J d out 0 J d out 0 J d out 0 J d out			A	
North Composition Comparison Matrix (Free Service) M	Azcar	2		
Sample I.D. Depth (feet) MATRIX PRESERV SA BHOLA (feet) (feet) (g) OMP. (g) OMP. (g) OMP. BHOLA (g) OMP. (g) OMP. (g) OMP. (g) OMP. (g) OMP. BHOLA (g) OMP. (g) OMP. (g) OMP. (g) OMP. (g) OMP. BHOLA (g) S (g) PRABOR (C) OMP. (g) OMP. (g) OMP. (g) OMP. BHOLA (g) S (g) PRABOR (C) OMP. (g) PRABOR (C) OMP. (g) OMP. (g) PRABOR (C) PRABOR (Ticko	-5	Fax #:	
Sample I.D. (feet) BHOL P BHOL P COICEE ONE COICE ONE COICE I DONE COICE I DONE COICE I TIME COICE I	FOR LABUSE ONLY		SERV.	
BH01 G.S.G.G.H.O.O.G.G.O.G.O.G.O.G.O.G.O.G.O.G.O		(feet) G)RAB OR (C)ON CONTAINERS GROUNDWATER VASTEWATER GOIL	THER: CID/BASE: DE/COOL STHER THER BTEX TPH	
B H & S O.S G I V	BHo1		0 4 2 0 UNIE IME	
BHD 3 B A B I A B I A <td< td=""><td></td><td>1</td><td>J J Keevy V /</td><td></td></td<>		1	J J Keevy V /	
By and Damages. Cardnaits inibility and clients exclusive remedy for any claim arking whether based is contract or tort, shall be limited to the amount paid changed torse for negligences and any other curus whitebower shall be deemed whether based is contract or tort, shall be limited to the performance of services hereander by Cardnail, logistices, losis of use, or loss of the amount paid arking out of or related to the performance of services hereander by Cardnail, regardless of whether such claim is based upon any of the above stander by By: By: Date: By: Date: Time: Date: By: Date: By: Date: By: Date: By: Date: By: Date: By: Correct a Temp.*C Sample Condition CheckVed By: Correct a Temp.*C Sample Condition Cool Instact (initials)	BH03		1 1 1 1 1 1 1 V	
By: Date: Date: Received By: By: Date: Date: Received By: By: Corrected Temp: Corrected Temp: Corrected Temp: By: Date: Received By: By: Cool Intact (initials)				
abding those for negligence and any other reuses withcover shall be deemed window whether badde is notified to the unnount paid anting out of an inside to the performance of services hereurable by Cardinal, regardless interruptions, its of true, or loss of point incurred by Cardinal, regardless of whether such daim is based upon any of the above stated re	EASE NOTE: Liability and Damages. Cardinal's liability	and cliefs and a compared of the second seco		
Opate: Paceived By: Uc) dcan Time: By: Date: Received By: Opate: Time: Circle One) Observed Temp: °C Observed Temp: °C Corrected Temp: °C Corrected Temp: °C Corrected Temp: °C Corrected Temp: °C	anyses. All claims including those for negligence and any vrice. In no event shall Cardinal be liable for incidential or liates or successors arising out of or related to the perfor elinourished Bu-	y other cause whatboever shall be derined winder unless made in vehitig and r consequential damages, including without limitation, business interruptions, lo rmance of services hereunder by Cardinal, regardless of whether such claim is	2 ford, shall be limited to the amount paid by the client for the received by Cardinal within 30 days after completion of the applicable ss of use, or loss of profils incurred by client, its subsidiaries, 1 bitsed upon any of the above statuto transverse to subsolitaries.	
OCy (C4A) Time: Received By: By: Date: Received By: By: Date: Received By: Corrected Temp: Continue: Cool Intact (Initials) Bus - Other: Corrected Temp: Corrected Temp:	Assault.	24 Received By		Add'l Phone #:
- Bus - Other: Corrected Temp.*C, Sc. Dyes Tyes Cool Intact Cool In	elinquished By:	Received By:	thilloud ensolum. L	om Avojelariaensolum, com
- Bus - Other: Corrected Temp. C. & Cool Intact (Initials) Coorrected Temp. C. & Dyes Pyes (Initials) Themometer ID #143_0.0.0.2	elivered By: (Circle One)	°C		
	- Bus -	100 t	CHECKED BY: Turnaround Time: (Initials) AP AU Thermometer ID #143	Bacteria (only) Sample Condition

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 57 of 65

Laboratories

1.000

1

Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Ensolum, LLC	C		
Project Manager:		OLTHA	ANALYSIS REQUEST
And the second s	Hr nw U	P.O. #:	
Address: 3122 National Parks Hwy	Hwy	Company: XTO Energy	164 M
City: Carlsbad	State: NM Zip: 88220		
Phone #: (525)932-3406	00 Fax#:	Address: 3104 E. Gre	Granst
Project #: 0301558535	S Project Owner:	City: Cas 15 bad	
Project Name: HVGLDW	UT 6ST	State: NM Zip: 882.20	
Project Location:			
Sampler Name: Azael U	soidant	Fax #:	
FOR LAB USE ONLY	MATRIX		
Haus I.D. Sample I.D.	GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER : DATE	TPH Chiorian
J BHOL	5-0-5-	1 4 13 1 4 13	147 / / / 338 / / / 1
			X a 10-20
PLEASE NOTE: Liability and Damages. Cardinal's liabilit	V and client's enclusive remade for any risin which we want to a		
anaryses. An cutains, including those for negligence and any service. In no event shall Cardinal be liable for incidental or affiliates or successors arising out of or related to the perior Relignming the service of	other cause whatsoever shall be de consequental damages, including w mance of services hereunder by Can	server war, analy ore innecd to the amount paid by the cland received by Cardinal within 30 days after competents, loss of use, or loss of profits incurred by client, its set is based upon any of the above stated reasons or clands.	ha cilent for the mplifon of the applicable Its subsidiaries, or otherwise
Azal Voldant Relinquished By:	Time: Pate: 723-724 Received By: Pate: Received By:		Verbal Result: Dyes DNO Add'I Phone #: All Results are emailed. Please provide Email address: +h: 110500 ensaion, COM, CUM, COM COMO
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Observed Temp: "Cyry" Sample Condition Corrected Temp: "C S & Cool Intact Corrected Temp: "C S & Yes No No	CHECKED BY: (Initials)	Turnaround Time: Standard Bacteria (only) Sample Condition Rush A Cool Intact Observed Temp. °C
New Property of the Property of	+ Cardinal cannot accent verbal cha		ŀ

† Cardinal cannot accept verbal changes. Please email changes to celey.keene@cardinallabsnm.com

District I

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

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

District III

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

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

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

QUESTIONS

Action 387482

QUESTIONS	
Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	387482
	Action Type:
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Prerequisites	
ID (n#)	nAPP2420136803
Name	NAPP2420136803 AVALON UT 657 @ 0
Туре	Release Other
Status	Remediation Plan Received

Location of Release Source

Please answer all the questions in this group.	
Site Name	Avalon UT 657
Date Release Discovered	06/28/2024
Surface Owner	Federal

Incident Details

Please answer all the questions in this group.		
Incident Type	Release Other	
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	Νο	
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	Νο	

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. Cause: Corrosion | Flow Line - Production | Crude Oil | Released: 5 BBL | Recovered: 0 BBL | Crude Oil Released (bbls) Details Lost: 5 BBL Cause: Corrosion | Flow Line - Production | Produced Water | Released: 11 BBL | Recovered: Produced Water Released (bbls) Details 0 BBL | Lost: 11 BBL Is the concentration of chloride in the produced water >10,000 mg/l No Cause: Corrosion | Flow Line - Production | Condensate | Released: 0 BBL | Recovered: 0 Condensate Released (bbls) Details BBL | Lost: 0 BBL 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 Not answered. Other, Specify, Unknown, and/or Fire, or any negative lost amounts)

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

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

District III

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

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

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

QUESTIONS, Page 2

Page 60 of 65

Action 387482

QUESTIONS (continued)

Operator:	OGRID:
XTO ENERGY, INC	5380
6401 Holiday Hill Road	Action Number:
Midland, TX 79707	387482
	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.
	diation immediately after discovery of a release. If remediation has begun, please prepare and attach a narrative of eted or if the release occurred within a lined containment area (see Subparagraph (a) of Paragraph (5) of evaluation in the follow-up C-141 submission.
to report and/or file certain release notifications and perform corrective actions for rele the OCD does not relieve the operator of liability should their operations have failed to	knowledge and understand that pursuant to OCD rules and regulations all operators are required eases which may endanger public health or the environment. The acceptance of a C-141 report by adequately investigate and remediate contamination that pose a threat to groundwater, surface rt does not relieve the operator of responsibility for compliance with any other federal, state, or
I hereby agree and sign off to the above statement	Name: Colton Brown Title: Environmental Advisor Email: colton.s.brown@exxonmobil.com Date: 09/26/2024

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

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

District III

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

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

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

QUESTIONS, Page 3

Action 387482

Page 61 of 65

QUESTIONS (continued) Operator: OGRID: **XTO ENERGY, INC** 5380 6401 Holiday Hill Road Action Number: Midland, TX 79707 387482 Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)

QUESTIONS

Site Characterization

Please answer all the questions in this group (only required when seeking remediation plan approval and beyond). This information must be provided to the appropriate district office no later than 90 days after the release discovery date. area affected by th groupdwater beneath the What is the aball

What is the shallowest depth to groundwater beneath the area affected by the release in feet below ground surface (ft bgs)	Between 100 and 500 (ft.)
What method was used to determine the depth to ground water	NM OSE iWaters Database Search
Did this release impact groundwater or surface water	No
What is the minimum distance, between the closest lateral extents of the release ar	id the following surface areas:
A continuously flowing watercourse or any other significant watercourse	Between 1000 (ft.) and ½ (mi.)
Any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)	Between 1000 (ft.) and ½ (mi.)
An occupied permanent residence, school, hospital, institution, or church	Between 1 and 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	Between 1 and 5 (mi.)
A wetland	Between 1000 (ft.) and ½ (mi.)
A subsurface mine	Greater than 5 (mi.)
An (non-karst) unstable area	Between 1000 (ft.) and ½ (mi.)
Categorize the risk of this well / site being in a karst geology	Medium
A 100-year floodplain	Between 1 and 5 (mi.)
Did the release impact areas not on an exploration, development, production, or storage site	Yes

Remediation Plan

Please answer all the questions t	hat apply or are indicated. This information must be provided to	o the appropriate district office no later than 90 days after the release discovery date.
Requesting a remediation	plan approval with this submission	Yes
Attach a comprehensive report de	emonstrating the lateral and vertical extents of soil contamination	on associated with the release have been determined, pursuant to 19.15.29.11 NMAC and 19.15.29.13 NMAC.
Have the lateral and vertica	al extents of contamination been fully delineated	Yes
Was this release entirely c	contained within a lined containment area	No
Soil Contamination Sampling	g: (Provide the highest observable value for each, in m	nilligrams per kilograms.)
Chloride	(EPA 300.0 or SM4500 CI B)	8260
TPH (GRO+DRO+MRO)	(EPA SW-846 Method 8015M)	27220
GRO+DRO	(EPA SW-846 Method 8015M)	23470
BTEX	(EPA SW-846 Method 8021B or 8260B)	34
Benzene	(EPA SW-846 Method 8021B or 8260B)	0
Per Subsection B of 19.15.29.11 I	i i	
Per Subsection B of 19.15.29.11 I which includes the anticipated tin	NMAC unless the site characterization report includes complete	0
Per Subsection B of 19.15.29.11 I which includes the anticipated tin On what estimated date wi	NMAC unless the site characterization report includes complete nelines for beginning and completing the remediation.	0 ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA
Per Subsection B of 19.15.29.11 I which includes the anticipated tin On what estimated date wi On what date will (or did) t	NMAC unless the site characterization report includes complete nelines for beginning and completing the remediation. ill the remediation commence	0 ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 09/20/2024
Per Subsection B of 19.15.29.11 I which includes the anticipated tim On what estimated date wi On what date will (or did) ti On what date will (or was)	NMAC unless the site characterization report includes complete nelines for beginning and completing the remediation. ill the remediation commence he final sampling or liner inspection occur	0 ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 09/20/2024 12/25/2024
Per Subsection B of 19.15.29.11 I which includes the anticipated tim On what estimated date wi On what date will (or did) t On what date will (or was) What is the estimated surfa	NMAC unless the site characterization report includes complete nelines for beginning and completing the remediation. ill the remediation commence he final sampling or liner inspection occur the remediation complete(d)	0 ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 09/20/2024 12/25/2024 12/25/2024
Per Subsection B of 19.15.29.11 I which includes the anticipated tim On what estimated date wi On what date will (or did) ti On what date will (or was) What is the estimated surfa What is the estimated volu	NMAC unless the site characterization report includes complete nelines for beginning and completing the remediation. ill the remediation commence he final sampling or liner inspection occur the remediation complete(d) ace area (in square feet) that will be reclaimed	0 ad efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 09/20/2024 12/25/2024 12/25/2024 2140
Per Subsection B of 19.15.29.11 I which includes the anticipated tim On what estimated date wi On what date will (or did) ti On what date will (or was) What is the estimated surfa What is the estimated volu What is the estimated surfa	NMAC unless the site characterization report includes complete nelines for beginning and completing the remediation. ill the remediation commence he final sampling or liner inspection occur the remediation complete(d) ace area (in square feet) that will be reclaimed ime (in cubic yards) that will be reclaimed	0 ed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMA 09/20/2024 12/25/2024 12/25/2024 2140 317

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

District I

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

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

District III

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

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

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

QUESTIONS, Page 4

Action 387482

QUESTIONS (continued)		
XTO ENERGY, INC	OGRID: 5380 Action Number: 387482	
	Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	
QUESTIONS		
Remediation Plan (continued)		

Please answer all the questions that apply or are indicated. This information must be provided to the appropriate district office no later than 90 days after the release discovery date This remediation will (or is expected to) utilize the following processes to remediate / reduce contaminants: (Select all answers below that apply.) (Ex Situ) Excavation and off-site disposal (i.e. dig and haul, hydrovac, etc.) Yes Which OCD approved facility will be used for off-site disposal HALFWAY DISPOSAL AND LANDFILL [fEEM0112334510] OR which OCD approved well (API) will be used for off-site disposal Not answered. OR is the off-site disposal site, to be used, out-of-state Not answered. OR is the off-site disposal site, to be used, an NMED facility Not answered. (Ex Situ) Excavation and on-site remediation (i.e. On-Site Land Farms) Not answered (In Situ) Soil Vapor Extraction Not answered. (In Situ) Chemical processing (i.e. Soil Shredding, Potassium Permanganate, etc.) Not answered. (In Situ) Biological processing (i.e. Microbes / Fertilizer, etc.) Not answered. (In Situ) Physical processing (i.e. Soil Washing, Gypsum, Disking, etc.) Not answered. Ground Water Abatement pursuant to 19.15.30 NMAC Not answered. OTHER (Non-listed remedial process) Not answered. Per Subsection B of 19.15.29.11 NMAC unless the site characterization report includes completed efforts at remediation, the report must include a proposed remediation plan in accordance with 19.15.29.12 NMAC, which includes the anticipated timelines for beginning and completing the remediation I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations Name: Colton Brown Title: Environmental Advisor I hereby agree and sign off to the above statement Email: colton.s.brown@exxonmobil.com Date: 09/26/2024

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

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

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

District III

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

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

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

QUESTIONS,	Page	5

Action 387482

Page 63 of 65

QUESTIONS (continued)		
Operator: XTO ENERGY, INC 6401 Holiday Hill Road Midland, TX 79707	OGRID: 5380 Action Number: 387482	
	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

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

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

District III

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

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

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

Action 387482

Page 64 of 65

QUESTIONS (continued)			
Operator: XTO ENERGY, INC 6401 Holiday Hill Road	OGRID: 5380 Action Number:		
Midland, TX 79707	387482 Action Type: [C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)		
QUESTIONS			
Sampling Event Information			
Last sampling notification (C-141N) recorded	{Unavailable.}		

No

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

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

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

District III

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

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

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

CONDITIONS

Action 387482

CONDITIONS		
Operator:	OGRID:	
XTO ENERGY, INC	5380	
6401 Holiday Hill Road	Action Number:	
Midland, TX 79707	387482	
	Action Type:	
	[C-141] Site Char./Remediation Plan C-141 (C-141-v-Plan)	

CONDITIONS

Created By	Condition	Condition Date
rhamlet	The Remediation Plan is Conditionally Approved. All samples must be analyzed for all constituents listed in Table I of 19.15.29.12 NMAC. Floor confirmation samples should be delineated/excavated to meet closure criteria standards from Table 1 of the OCD Spill Rule for site assessment/characterization/proven depth to water determination. Sidewall/Edge samples should be delineated/excavated to 600 mg/kg for chlorides and 100 mg/kg for TPH to define the edge of the release. All sidewall samples should be taken from the sidewall of the excavation. Confirmation samples should be collected every 200 ft2. All off pad areas must meet reclamation standards set forth in the OCD Spill Rule. The work will need to occur in 90 days after the report has been reviewed.	10/24/2024