

REVISED

2:50 pm, May 09, 2018

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
12 St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action**OPERATOR**
☒ Initial Report ☐ Final Report

Name of Company <i>Cross Timbers Energy, LLC</i>	Contact <i>Jerry Parker</i>
Address <i>972 NM Hwy 238</i>	Telephone No. <i>575-441-1628</i>
Facility Name <i>New Mexico BO ST. BATTERY</i>	Facility Type <i>PRODUCTION BATTERY</i>
Surface Owner <i>State</i>	Mineral Owner <i>State</i>
Lease No. <i>312477</i>	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<i>H</i>	<i>12</i>	<i>18.5</i>	<i>34E</i>		<i>1930 FNL</i>		<i>660 FEL</i>	<i>LEA</i>

Latitude *32.76275, -103.50755* 3.304599 W

NATURE OF RELEASE

Type of Release <i>Oil</i>	Volume of Release <i>10 Gals. WTR</i>	Volume Recovered <i>30 Oil</i>
Source of Release <i>Fill line FROM HEATER</i>	Date and Hour of Occurrence <i>8:00 AM</i>	Date and Hour of Discovery <i>11/30/2016</i>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <i>11/30/2016</i>	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		

RECEIVED

By Olivia Yu at 1:51 pm, Jan 13, 2017

Describe Cause of Problem and Remedial Action Taken.*

3" Steel line - external corrosion

Fill line FROM HEATER TO OIL TANK leaked - Replaced line - 25'

Describe Area Affected and Cleanup Action Taken.*

GRAZING LAND - VAC TRK Picked up 30 Gals. oil - Backhoe - back drag -

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOC 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.

OIL CONSERVATION DIVISION

Signature: <i>Jerry Parker</i>	Approved by District Supervisor: <i>[Signature]</i>	
Printed Name: <i>Jerry Parker</i>	Approval Date: <i>01/13/2017</i>	Expiration Date:
Title: <i>Production Foreman</i>	Conditions of Approval: <i>see attached directive</i>	Attached <input checked="" type="checkbox"/>
E-mail Address: <i>jc.parker@CTFieldsVCS.com</i>		
Date: <i>12/6/2016</i>	Phone: <i>575-441-1628</i>	

* Attach Additional Sheets If Necessary

RP4560

nOY1701349940

pOY1701350192

API # 30-025-02318

Operator/Responsible Party,

The OCD has received the form C-141 you provided on _12/06/2016_ regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number __1R-_4560_ has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District _1_ office in __Hobbs__ on or before _02/13/2017_. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). Copies of the actual laboratory results must be provided including chain of custody documentation.

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief
1220 South St. Francis Drive
Santa Fe, New Mexico 87505
505-476-3465
jim.griswold@state.nm.us



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

January 11, 2017

JERRY PARKER

CROSS TIMBERS ENERGY, LLC

P. O. BOX 909

EUNICE, NM 88231

RE: NM BO STATE

Enclosed are the results of analyses for samples received by the laboratory on 01/04/17 9:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. 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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive, flowing style.

Celey D. Keene

Lab Director/Quality Manager

Analytical Results For:

CROSS TIMBERS ENERGY, LLC
JERRY PARKER
P. O. BOX 909
EUNICE NM, 88231
Fax To: (575) 396-6253

Received: 01/04/2017
Reported: 01/11/2017
Project Name: NM BO STATE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 01/04/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #1 (H700018-01)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/05/2017	ND	432	108	400	3.77	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/04/2017	ND	206	103	200	3.11	
DRO >C10-C28	185	10.0	01/04/2017	ND	225	113	200	2.65	
Surrogate: 1-Chlorooctane	94.0 %	35-147							
Surrogate: 1-Chlorooctadecane	110 %	28-171							

Sample ID: #2 (H700018-02)

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/05/2017	ND	432	108	400	3.77	
TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/04/2017	ND	206	103	200	3.11	
DRO >C10-C28	<10.0	10.0	01/04/2017	ND	225	113	200	2.65	
Surrogate: 1-Chlorooctane	85.3 %	35-147							
Surrogate: 1-Chlorooctadecane	95.3 %	28-171							

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

CROSS TIMBERS ENERGY, LLC
JERRY PARKER
P. O. BOX 909
EUNICE NM, 88231
Fax To: (575) 396-6253

Received: 01/04/2017
Reported: 01/11/2017
Project Name: NM BO STATE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 01/04/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #3 (H700018-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/05/2017	ND	432	108	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/06/2017	ND	183	91.7	200	0.659	QR-03
DRO >C10-C28	27.0	10.0	01/06/2017	ND	194	97.1	200	0.949	
Surrogate: 1-Chlorooctane		83.7 %	35-147						
Surrogate: 1-Chlorooctadecane		95.1 %	28-171						

Sample ID: #4 (H700018-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/05/2017	ND	432	108	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/06/2017	ND	183	91.7	200	0.659	
DRO >C10-C28	250	10.0	01/06/2017	ND	194	97.1	200	0.949	
Surrogate: 1-Chlorooctane	93.3 %	35-147							
Surrogate: 1-Chlorooctadecane	92.2 %	28-171							

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

CROSS TIMBERS ENERGY, LLC
JERRY PARKER
P. O. BOX 909
EUNICE NM, 88231
Fax To: (575) 396-6253

Received: 01/04/2017
Reported: 01/11/2017
Project Name: NM BO STATE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 01/04/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #5 (H700018-05)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/05/2017	ND	432	108	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/06/2017	ND	183	91.7	200	0.659	
DRO >C10-C28	30.0	10.0	01/06/2017	ND	194	97.1	200	0.949	
Surrogate: 1-Chlorooctane	89.7 %	35-147							
Surrogate: 1-Chlorooctadecane	96.8 %	28-171							

Sample ID: #6 (H700018-06)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/05/2017	ND	432	108	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/06/2017	ND	183	91.7	200	0.659	
DRO >C10-C28	265	10.0	01/06/2017	ND	194	97.1	200	0.949	
Surrogate: 1-Chlorooctane		122 %	35-147						
Surrogate: 1-Chlorooctadecane		118 %	28-171						

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

CROSS TIMBERS ENERGY, LLC
JERRY PARKER
P. O. BOX 909
EUNICE NM, 88231
Fax To: (575) 396-6253

Received: 01/04/2017
Reported: 01/11/2017
Project Name: NM BO STATE
Project Number: NONE GIVEN
Project Location: LEA COUNTY, NM

Sampling Date: 01/04/2017
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: #7 (H700018-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/05/2017	ND	432	108	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/06/2017	ND	183	91.7	200	0.659	
DRO >C10-C28	35.5	10.0	01/06/2017	ND	194	97.1	200	0.949	
Surrogate: 1-Chlorooctane	97.4 %	35-147							
Surrogate: 1-Chlorooctadecane	102 %	28-171							

Sample ID: #8 (H700018-08)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	01/05/2017	ND	432	108	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/06/2017	ND	183	91.7	200	0.659	
DRO >C10-C28	815	10.0	01/06/2017	ND	194	97.1	200	0.949	
Surrogate: 1-Chlorooctane	107 %	35-147							
Surrogate: 1-Chlorooctadecane	115 %	28-171							

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

 CROSS TIMBERS ENERGY, LLC
 JERRY PARKER
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 EUNICE NM, 88231
 Fax To: (575) 396-6253

Received:	01/04/2017	Sampling Date:	01/04/2017
Reported:	01/11/2017	Sampling Type:	Soil
Project Name:	NM BO STATE	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: #9 (H700018-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	01/05/2017	ND	432	108	400	3.77	
TPH 8015M		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/06/2017	ND	183	91.7	200	0.659	
DRO >C10-C28	167	10.0	01/06/2017	ND	194	97.1	200	0.949	

Surrogate: 1-Chlorooctane	100 %	35-147
Surrogate: 1-Chlorooctadecane	94.4 %	28-171

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received basis (wet) unless otherwise noted on report

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



(575) 393-2326 FAX (575) 393-2476

BILL TO

ANALYSIS REQUEST

+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326