Form C-141
Page 6

State of New Mexico
Oil Conservation Division

Incident ID	nRM2028762234
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Stephen Curtis Jr Title: Operations Support/Remediation Specialist

Signature: [signature] Date: 6-1-21

email: Jr.Curtis@Contango.com Telephone: 575-420-8175

OCD Only

Received by: Chad Hensley Date: 07/06/2021

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: [signature] Date: 07/06/2021

Printed Name: Chad Hensley Title: Environmental Specialist Advanced

Form C-141
Page 3

State of New Mexico
Oil Conservation Division

Incident ID	nRM2028762234
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	> 55 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

- ☒ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☒ Field data
- ☒ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☒ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☒ Boring or excavation logs
- ☒ Photographs including date and GIS information
- ☒ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

Form C-141
Page 4

State of New Mexico
Oil Conservation Division

Incident ID	nRM2028762234
District RP	
Facility ID	
Application ID	

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.

Printed Name: Carmen Pitt Title: Senior EHS Specialist

Signature: _____ Date: _____

email: cpitt@grizzlyenergyllc.com Telephone: 432-248-8145

OCD Only

Received by: _____ Date: _____

Form C-141
Page 5

State of New Mexico
Oil Conservation Division

Incident ID	nRM2028762234
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: *Each of the following items must be included in the plan.*

☒ Detailed description of proposed remediation technique
☒ Scaled sitemap with GPS coordinates showing delineation points
☒ Estimated volume of material to be remediated
☒ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
☒ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: *Each of the following items must be confirmed as part of any request for deferral of remediation.*

☒ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☒ Extents of contamination must be fully delineated.

☒ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

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.

Printed Name: Carmen Pitt Title: Senior EHS Specialist

Signature: _____ Date: _____

email: cpitt@grizzlyenergyllc.com Telephone: 432-248-8145

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

TABLE OF CONTENTS

Contango Resources, Inc.
301 NW 63rd, Suite 300
Oklahoma City, OK 73116
Ph: (405) 252-5777 / Fax: (855) 491-9026

CLOSURE REPORT

CONTANGO RESOURCES
Enron State Battery
Eddy County, New Mexico
Unit Letter "C", Section 32, Township 17 South, Range 28 East
Latitude 32.795931 North, Longitude 104.199918 West
NMOCD Reference No. nRM2028762234

Prepared By:

Stephen Curtis Jr

6-1-2021

Contango

Contango Resources, Inc.
ENVIRONMENTAL REMED1ATION REPORT

DATE: 5-18-2021

RE: Final Closure Report
Enron State Battery
Eddy County, New Mexico
Unit Letter "C", Section 32, Township 17 South, Range 28 East
Latitude 32.795931 North, Longitude 104.199918 West
NMOCD Reference No. nRM2028762234

To whom it may concern:

The following *Final Closure Report* serves as a condensed update on closure activities for the above referenced Site.

Background Information:
On 10/19/2020 Grizzly had a hole in a firetube on a 6 x 20 heater that released fluid in containment. Volume released was 22 bbls with 16 bbls being recovered with a VT. On 10/23/2020 Etech conducted their initial site assessment. 12 samples pulled with high TPH on samples SP1 and SP2 that don't meet NMOCD Criteria. Contango took over the asset Feb 1, 2021 and assumed this clean up.

Remediation Activities:
On April 6, 2021 the release area was excavated to a depth of one (1) foot with approximately 42 yards of contaminated soil excavated and hauled to a state approved facility for disposal. Area of removal was 1 ft around test site FS1,FS2,FS3. With 6 in around the equipment removed. Area was dug with machinery where possible and continued with hand equipment. See attached pictures 'Appendix D'. Took 12 samples from excavated area with laboratory analytical results indicating that BTEX,TPH and Chlorides concentrations are below the NMOCD Closure Criteria. Attached 'Appendix B'.

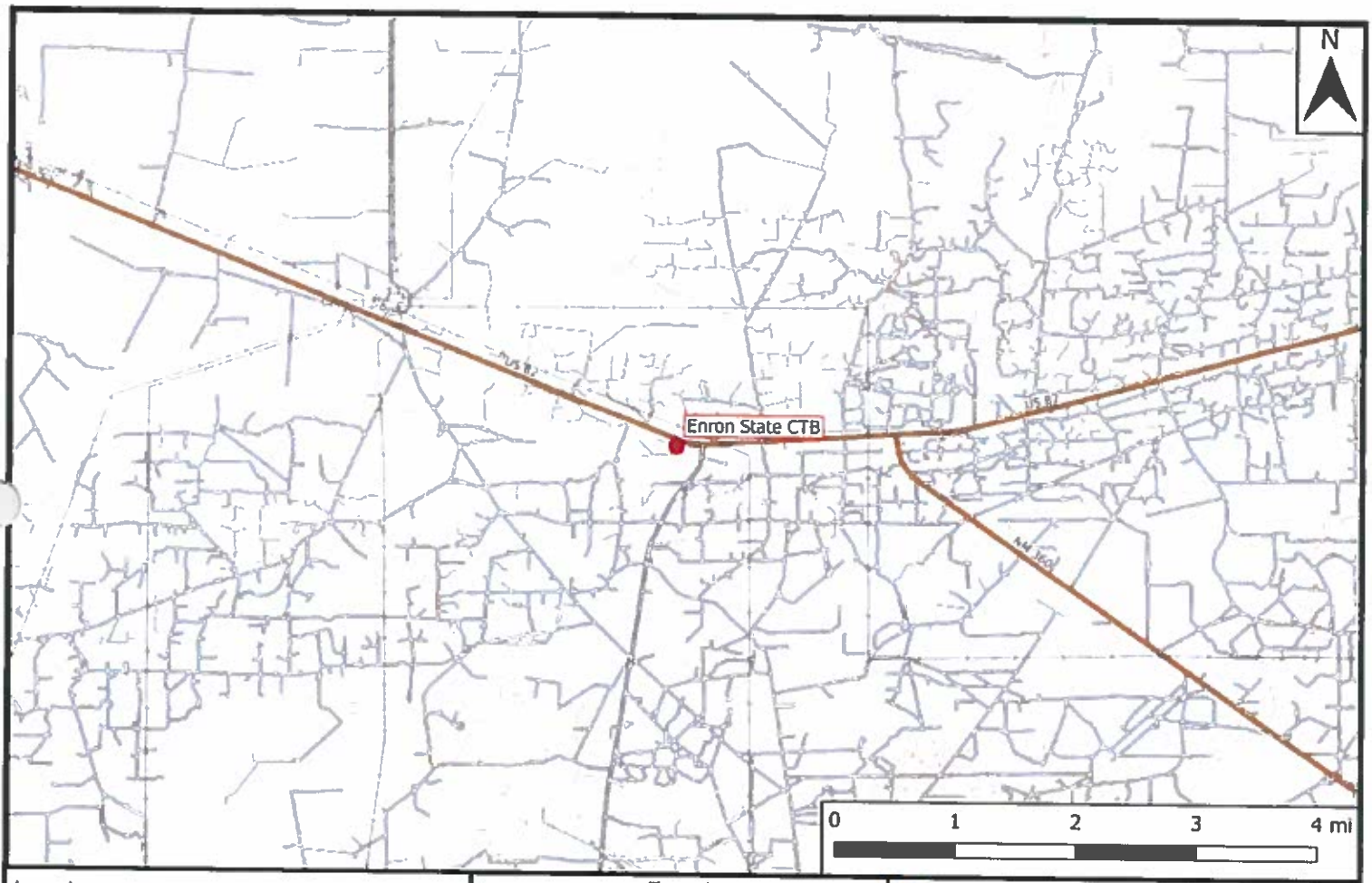
Closure Activities:
After excavation activities were completed the excavation was backfilled with approximately 36 yards of clean caliche and topped with a layer of gravel. All soil was free of rocks, clumps or deleterious material. Attached Appendix D

Closure Request:
Based upon the date collected and the Site work completed by Contango, COC's have been both vertically and horizontally delineated.

Based on the success of the response actions which are affirmed by certified laboratory analytical results, no additional remediation is necessary at this time. Copies of the Initial and Final C-141 are provided.

Contango respectfully requests closure of the Site.

Figure 1
Topographic Map



Legend

- Site Location

Figure 1
Topographic Map
Grizzly Energy, LLC
Enron State CTB
GPS: 32.795931, -104.199918
Eddy County

eTECH
Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 10/20/20

Figure 2
Aerial Proximity Map

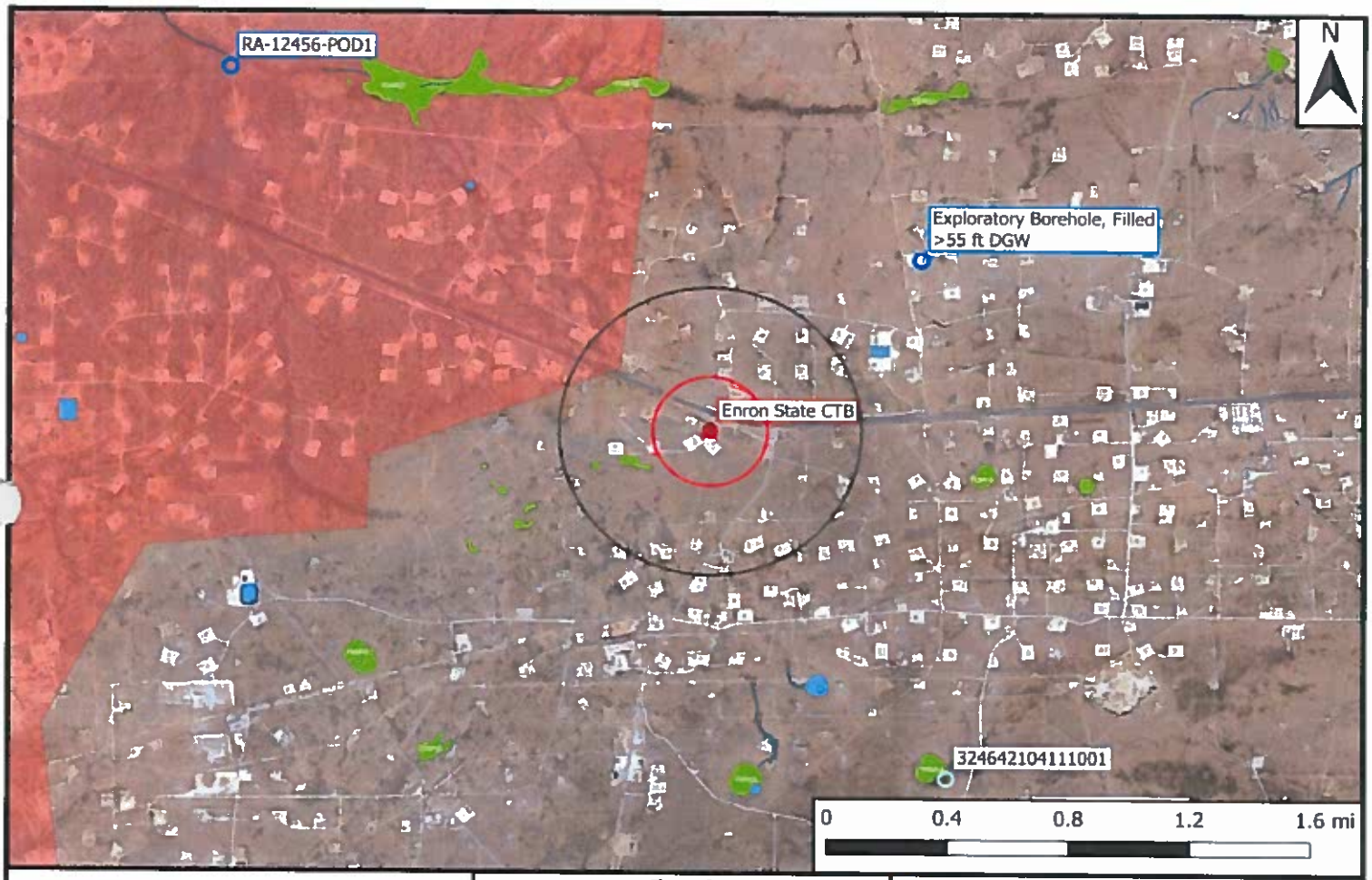


Figure 2
Aerial Map
Grizzly Energy, LLC
Enron State CTB
GPS: 32.795931, -104.199918
Eddy County

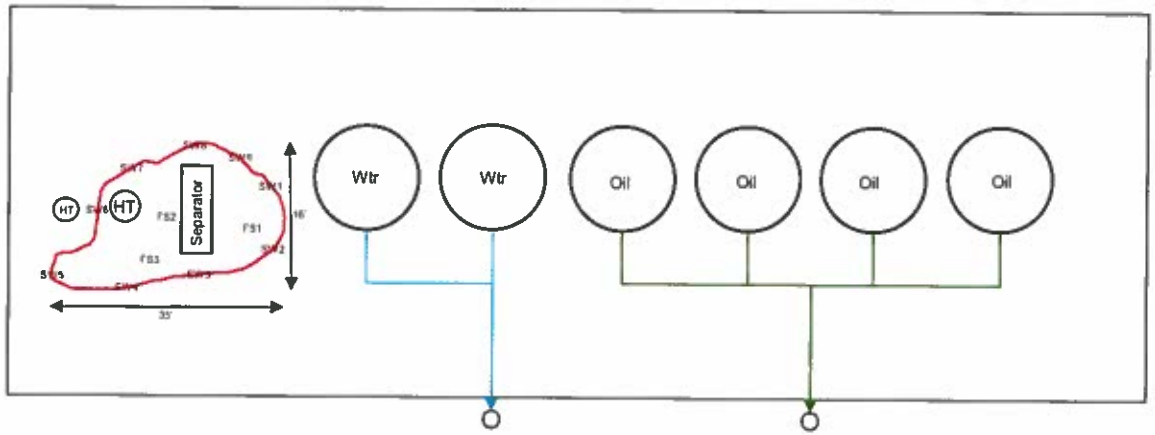
eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 10/20/20

FIGURE 3

Contango

Contango Resources, Inc.
Enron State Battery
Eddy County, NM
32.7961, -104.20004



Sidewall (SW)

Floor Sample (FS)

Release area

Site Facility Diagram (Not to Scale)

March 2021

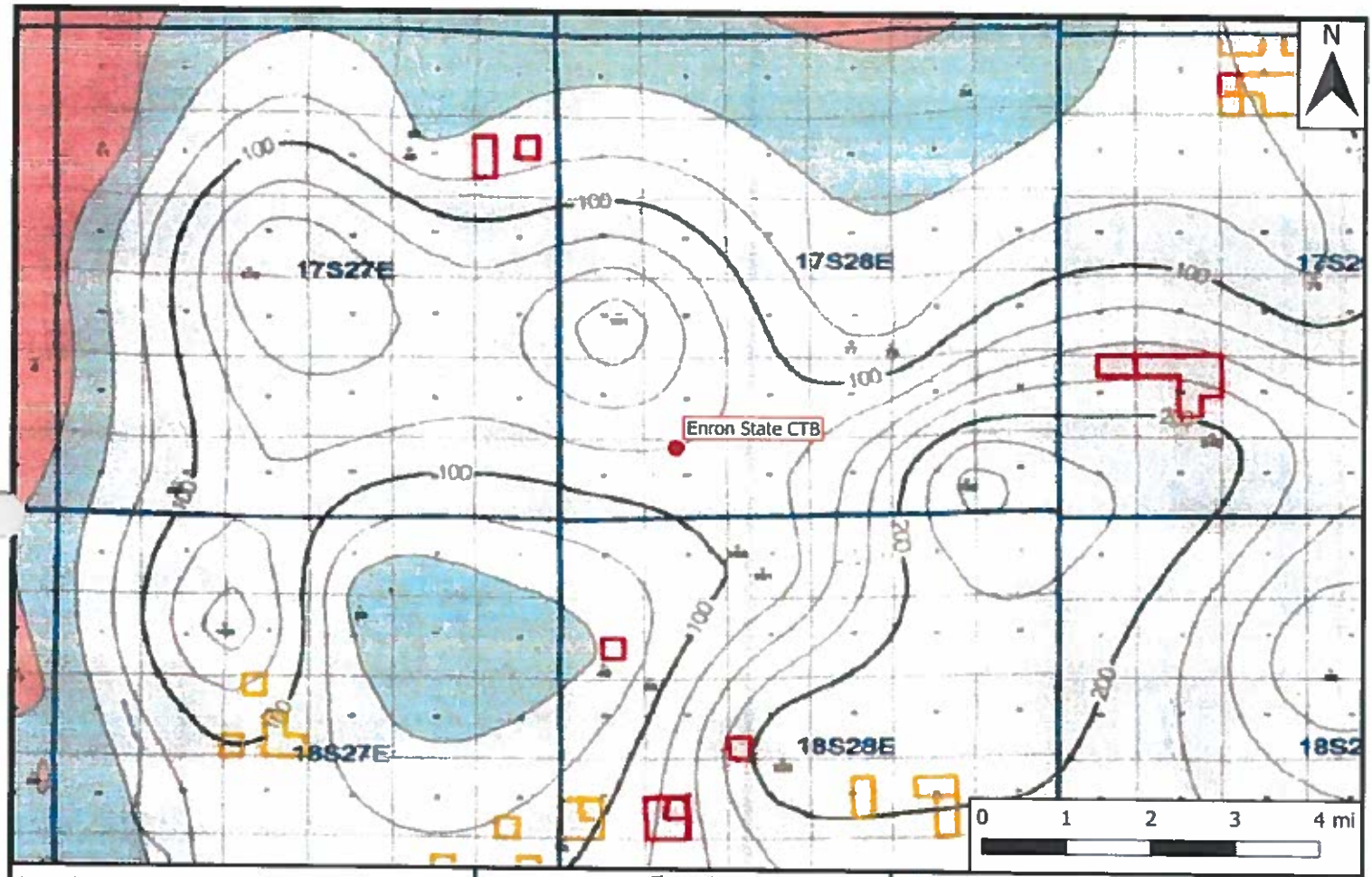
TABLE 1

Contango
OIL AND GAS COMPANY

TABLE 1
Summary of Confirmation Sampling Analytical Results
Concentrations of Chloride in Soil
Contango Resources, Inc.
Enron State Battery
Eddy County, NM

				EPA 300	8015M				8021B				
Sample Location	Sample Date	Sample Depth (ft)	Soil Status	Chloride (mg/kg)	Gasoline Range Organics (GRO) (mg/kg)	Diesel Range Organics (DRO) (mg/Kg)	Oil Range Organics (MRO) (mg/kg)	Total TPH (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethybenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)
NMAC 19.15.29				10,000	1,000		NE	2,500	10	NE			50
Confirmation Sampling													
SW 1	5/6/2021	SIDEWALL	EXCAUVATED	217	<49.9	<49.9	<49.9	<49.9	<.00199	<.00199	<.00199	<.00398	<.00398
SW 2	5/6/2021	SIDEWALL	EXCAUVATED	248	<50.0	<50.0	<50.0	<50.0	<.00199	<.00199	<.00199	<.00398	<.00398
SW 3	5/6/2021	SIDEWALL	EXCAUVATED	97	<50.0	<50.0	<50.0	<50.0	<.00202	<.00202	<.00202	<.00404	<.00404
SW 4	5/6/2021	SIDEWALL	EXCAUVATED	193	<50.0	<50.0	<50.0	<50.0	<.00200	<.00200	<.00200	<.00401	<.00401
SW 5	5/6/2021	SIDEWALL	EXCAUVATED	102	<50.0	<50.0	<50.0	<50.0	<.00200	<.00200	<.00200	<.00399	<.00399
SW6	5/6/2021	SIDEWALL	EXCAUVATED	96	<49.9	<49.9	<49.9	<49.9	<.00202	<.00202	<.00202	<.00403	<.00403
SW 7	5/6/2021	SIDEWALL	EXCAUVATED	393	<49.9	<49.9	<49.9	<49.9	<.00199	<.00199	<.00199	<.00398	<.00398
SW 8	5/6/2021	SIDEWALL	EXCAUVATED	323	<50.0	56.4	<50.0	56.4	<.00198	<.00198	<.00198	<.00396	<.00396
SW 9	5/6/2021	SIDEWALL	EXCAUVATED	264	<49.9	<49.9	<49.9	<49.9	0.00268	0.00252	<.00200	<.00399	0.0052
FS 1	5/6/2021	1 ft	EXCAUVATED	212	<50.0	<50.0	<50.0	<50.0	<.00200	0.00251	<.00200	<.00400	<.00400
FS 2	5/6/2021	1 ft	EXCAUVATED	278	<49.9	50	<49.9	50	<.00198	0.002	<.00198	<.00396	<.00396
FS 3	5/6/2021	1 ft	EXCAUVATED	243	<50.0	<50.0	<50.0	<50.0	<.00198	0.002	<.00198	<.00396	<.00396

Appendix A
Depth to Groundwater Information



Legend

- Site Location

Figure 4
Inferred Depth to Groundwater Trend Map
Grizzly Energy, LLC
Enron State CTB
GPS: 32.795931, -104.199918
Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 10/20/20

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
RA 12456 POD1		RA	ED	1	4	4	24	17S	27E	572348	3630969	3266	220	92	128
RA 11857 POD1		RA	ED	1	1	2	05	18S	26E	577784	3625988	4123	235	95	140
RA 04561		RA	ED		4	2	26	17S	27E	570871	3630142*	4214	250		

Average Depth to Water: **93 feet**

Minimum Depth: **92 feet**

Maximum Depth: **95 feet**

Record Count: 3

UTMNAD83 Radius Search (in meters):

Easting (X): 574912.92 **Northing (Y):** 3628947.52 **Radius:** 4830

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Twn	Rng	(NAD83 UTM in meters) X	Y
	RA 04561	4	2		26	17S	27E	570871	3630142*

Driller License:
Driller Company:
Driller Name: OWEN HAYNES

Drill Start Date:	**Drill Finish Date:**	**Plug Date:**
Log File Date:	**PCW Rcv Date:**	**Source:**
Pump Type:	**Pipe Discharge Size:**	**Estimated Yield:**
Casing Size: 7.00	**Depth Well:** 250 feet	**Depth Water:**

***UTM location was derived from PLSS - see Help**

10/20/20 1:28 PM POINT OF DIVERSION SUMMARY

New Mexico Office of the State Engineer
Point of Diversion Summary

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters)

Well Tag	POD Number	Q64	Q16	Q4	Sec	Twn	Rng	X	Y
	RA 11857 POD1	1	1	2	05	18S	26E	577784	3625988

Driller License: 1064 **Driller Company:** DELFORD W. MARTIN

Driller Name: MARTIN, DELFORD

Drill Start Date:	09/25/2012	**Drill Finish Date:**	10/01/2012	**Plug Date:**	
Log File Date:	10/15/2012	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	95 GPM
Casing Size:	5.00	**Depth Well:**	235 feet	**Depth Water:**	95 feet

Water Bearing Stratifications:	Top	Bottom	Description
	95	130	Sandstone/Gravel/Conglomerate
	160	235	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	140	235

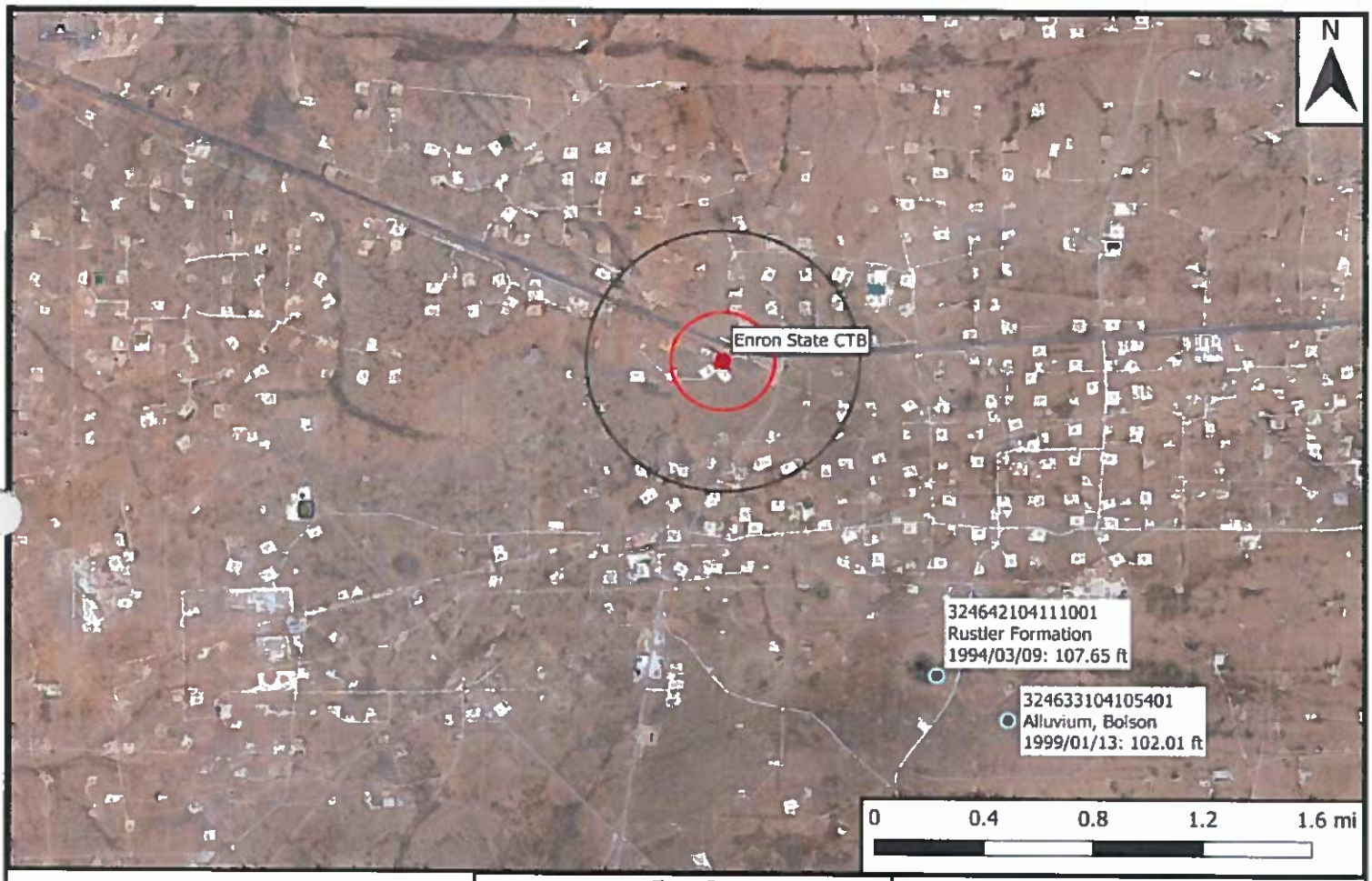
New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	RA 12456 POD1	1	4	4	24	17S	27E	572348	3630969

Driller License:	1058	**Driller Company:**	KEY'S DRILLING & PUMP SERVICE		
Driller Name:	DON KUEHN III				
Drill Start Date:	09/07/2016	**Drill Finish Date:**	09/09/2016	**Plug Date:**	
Log File Date:	09/15/2016	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	10 GPM
Casing Size:	4.50	**Depth Well:**	220 feet	**Depth Water:**	92 feet

Water Bearing Stratifications:	Top	Bottom	Description
	90	110	Sandstone/Gravel/Conglomerate
	160	180	Shale/Mudstone/Siltstone
	180	200	Sandstone/Gravel/Conglomerate
	200	210	Sandstone/Gravel/Conglomerate
	210	220	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	200	220



Legend
- Site Location
- Well - USGS
- 0.5 Mi Radius
- 1000 Ft Radius

Figure 5
USGS Well Proximity Map
Grizzly Energy, LLC
Enron State CTB
GPS: 32.795931, -104.199918
Eddy County

eTECH Environmental & Safety Solutions, Inc.

Drafted: mag Checked: jwl Date: 10/20/20

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National Water Information System: Web Interface

Water Resources

Data Category: Groundwater | Geographic Area: United States | GO

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Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 324633104105401

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 324633104105401 18S.28E.04.32412

Eddy County, New Mexico
Latitude 32°46'33", Longitude 104°10'54" NAD27
Land-surface elevation 3,665 feet above NAVD88
This well is completed in the Alluvium, Bolson Deposits and Other Surface Deposits (110AVMB) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water level appr statu
1985-06-04		D	103.08			2		U			U
1989-02-02		D	107.27			2		U			U
1994-03-09		D	100.78			2		S			U
1999-01-13		D	102.01			2		S	USGS		S

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status		The reported water-level measurement represents a static level
Method of measurement	S	Steel-tape measurement.
Method of measurement	U	Unknown method.
Measuring agency		Not determined
Measuring agency	USGS	U.S. Geological Survey
Source of measurement	S	Measured by personnel of reporting agency.
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

Questions about sites/data?
Feedback on this web site

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U.S. Department of the Interior | U.S. Geological Survey
Title: Groundwater for USA: Water Levels
URL: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2020-10-20 15:25:08 EDT
0.29 0.26 nadww01

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Water Resources

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- Full News

Groundwater levels for the Nation

Search Results -- 1 sites found

Agency code = usgs
site_no list =
- 324642104111001

Minimum number of levels = 1
Save file of selected sites to local disk for future upload

USGS 324642104111001 18S.28E.04.131444

Eddy County, New Mexico
Latitude 32°46'42", Longitude 104°11'10" NAD27
Land-surface elevation 3,640 feet above NGVD29
The depth of the well is 145.00 feet below land surface.
This well is completed in the Rustler Formation (312RSLR) local aquifer.

Output formats

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

Date	Time	? Water-level date-time accuracy	Water level, feet below land surface	Water level, feet above specific vertical datum	Referenced vertical datum	? Water-level accuracy	? Status	? Method of measurement	? Measuring agency	? Source of measurement	? Water level appr statu
1985-06-04		D	109.39			2	Z	S		U	
1990-09-19		D	106.60			2	Z	S		U	
1994-03-09		D	107.65			2	Z	S		U	

Explanation

Section	Code	Description
Water-level date-time accuracy	D	Date is accurate to the Day
Water-level accuracy	2	Water level accuracy to nearest hundredth of a foot
Status	Z	Other conditions existed that would affect the measured water level (explain in remarks).
Method of measurement	S	Steel-tape measurement.
Measuring agency		Not determined
Source of measurement	U	Source is unknown.
Water-level approval status	A	Approved for publication -- Processing and review completed.

stions about sites/data?
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e: Groundwater for USA: Water Levels
: https://nwis.waterdata.usgs.gov/nwis/gwlevels?

Page Contact Information: USGS Water Data Support Team
Page Last Modified: 2020-10-20 15:25:10 EDT
0.26 0.24 nadww01

USA.gov

APPENDIX C

eurofins | Environment Testing America

ANALYTICAL REPORT

Eurofins Xenco, Carlsbad
1089 N Canal St.
Carlsbad, NM 88220
Tel: (575)988-3199

Laboratory Job ID: 890-632-1
Client Project/Site: Enron State

For:
Contango Resources LLC
11405 Lovington Hwy
Artesia, New Mexico 88210

Attn: Jr Curtis

Authorized for release by:
5/11/2021 6:53:36 PM

John Builes, Project Manager
(281)240-4200
john.builes@eurofinset.com

Client: Contango Resources LLC
Project/Site: Enron State

Laboratory Job ID: 890-632-1

Table of Contents

Definitions/Glossary

Client: Contango Resources LLC
Project/Site: Enron State

Job ID: 890-632-1

Qualifiers

GC VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

HPLC/IC

Qualifier	Qualifier Description
U	Indicates the analyte was analyzed for but not detected.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Contango Resources LLC
Project/Site: Enron State

Job ID: 890-632-1

Job ID: 890-632-1

Laboratory: Eurofins Xenco, Carlsbad

Narrative

Job Narrative
890-632-1

Comments
No additional comments.

Receipt
The samples were received on 5/6/2021 9:19 AM. Unless otherwise noted below, the samples arrived in good condition, and where required, properly preserved and on ice. The temperature of the cooler at receipt was 2.8° C.

Receipt Exceptions

The following samples analyzed for methods 8021 and 8015 were received and analyzed from an unpreserved bulk soil jar: SW1 (890-632-1), SW2 (890-632-2), SW3 (890-632-3), SW4 (890-632-4), SW5 (890-632-5), SW6 (890-632-6), SW7 (890-632-7), SW8 (890-632-8), SW9 (890-632-9), FS 1 @ 1FT (890-632-10), FS 2 @ 1 FT (890-632-11) and FS 3 @ 1 FT (890-632-12).

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

General Chemistry
Method 300.0: The matrix spike duplicate (MSD) recoveries for analytical batch 880-2853 were outside control limits. Non-homogeneity is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

The associated samples are: SW3 (890-632-3), SW4 (890-632-4), SW5 (890-632-5), SW6 (890-632-6), SW7 (890-632-7) and SW8 (890-632-8).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Client Sample Results

Client: Contango Resources LLC
Project/Site: Enron State

Job ID: 890-632-1

Client Sample ID: SW1

Date Collected: 05/06/21 06:04
Date Received: 05/06/21 09:19

Lab Sample ID: 890-632-1
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/06/21 12:50	05/07/21 02:06	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/06/21 12:50	05/07/21 02:06	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/06/21 12:50	05/07/21 02:06	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/06/21 12:50	05/07/21 02:06	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/06/21 12:50	05/07/21 02:06	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/06/21 12:50	05/07/21 02:06	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/06/21 12:50	05/07/21 02:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*70 - 130*	*05/06/21 12:50*	*05/07/21 02:06*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*05/06/21 12:50*	*05/07/21 02:06*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/06/21 16:34	05/07/21 15:46	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/06/21 16:34	05/07/21 15:46	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/06/21 16:34	05/07/21 15:46	1
Total TPH	<49.9	U	49.9		mg/Kg		05/06/21 16:34	05/07/21 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*05/06/21 16:34*	*05/07/21 15:46*	*1*
o-Terphenyl	*117*		*70 - 130*	*05/06/21 16:34*	*05/07/21 15:46*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	217		5.00		mg/Kg			05/07/21 10:58	1

Client Sample ID: SW2

Date Collected: 05/06/21 06:11
Date Received: 05/06/21 09:19

Lab Sample ID: 890-632-2
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/06/21 12:50	05/07/21 02:27	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/06/21 12:50	05/07/21 02:27	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/06/21 12:50	05/07/21 02:27	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/06/21 12:50	05/07/21 02:27	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/06/21 12:50	05/07/21 02:27	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/06/21 12:50	05/07/21 02:27	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/06/21 12:50	05/07/21 02:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*70 - 130*	*05/06/21 12:50*	*05/07/21 02:27*	*1*
1,4-Difluorobenzene (Surr)	*118*		*70 - 130*	*05/06/21 12:50*	*05/07/21 02:27*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 16:07	1

Client Sample Results

Client: Contango Resources LLC
Project/Site: Enron State

Job ID: 890-632-1

Client Sample ID: SW2

Date Collected: 05/06/21 06:11
Date Received: 05/06/21 09:19

Lab Sample ID: 890-632-2
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 16:07	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 16:07	1
Total TPH	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 16:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*106*		*70 - 130*	*05/06/21 16:34*	*05/07/21 16:07*	*1*
o-Terphenyl	*113*		*70 - 130*	*05/06/21 16:34*	*05/07/21 16:07*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	248		4.96		mg/Kg			05/07/21 11:04	1

Client Sample ID: SW3

Date Collected: 05/06/21 06:14
Date Received: 05/06/21 09:19

Lab Sample ID: 890-632-3
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/06/21 12:50	05/07/21 03:51	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/06/21 12:50	05/07/21 03:51	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/06/21 12:50	05/07/21 03:51	1
m-Xylene & p-Xylene	<0.00404	U	0.00404		mg/Kg		05/06/21 12:50	05/07/21 03:51	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/06/21 12:50	05/07/21 03:51	1
Xylenes, Total	<0.00404	U	0.00404		mg/Kg		05/06/21 12:50	05/07/21 03:51	1
Total BTEX	<0.00404	U	0.00404		mg/Kg		05/06/21 12:50	05/07/21 03:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*70 - 130*	*05/06/21 12:50*	*05/07/21 03:51*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*05/06/21 12:50*	*05/07/21 03:51*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 16:49	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 16:49	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 16:49	1
Total TPH	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 16:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*05/06/21 16:34*	*05/07/21 16:49*	*1*
o-Terphenyl	*120*		*70 - 130*	*05/06/21 16:34*	*05/07/21 16:49*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	96.7		4.97		mg/Kg			05/08/21 00:18	1

Client Sample Results

Client: Contango Resources LLC
Project/Site: Enron State

Job ID: 890-632-1

Client Sample ID: SW4

Date Collected: 05/06/21 06:21
Date Received: 05/06/21 09:19

Lab Sample ID: 890-632-4
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/06/21 12:50	05/07/21 04:11	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/06/21 12:50	05/07/21 04:11	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/06/21 12:50	05/07/21 04:11	1
m-Xylene & p-Xylene	<0.00401	U	0.00401		mg/Kg		05/06/21 12:50	05/07/21 04:11	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/21 12:50	05/07/21 04:11	1
Xylenes, Total	<0.00401	U	0.00401		mg/Kg		05/06/21 12:50	05/07/21 04:11	1
Total BTEX	<0.00401	U	0.00401		mg/Kg		05/06/21 12:50	05/07/21 04:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*70 - 130*	*05/06/21 12:50*	*05/07/21 04:11*	*1*
1,4-Difluorobenzene (Surr)	*114*		*70 - 130*	*05/06/21 12:50*	*05/07/21 04:11*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 17:10	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 17:10	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 17:10	1
Total TPH	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 17:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*05/06/21 16:34*	*05/07/21 17:10*	*1*
o-Terphenyl	*119*		*70 - 130*	*05/06/21 16:34*	*05/07/21 17:10*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	193		4.95		mg/Kg			05/08/21 00:34	1

Client Sample ID: SW5

Date Collected: 05/06/21 06:27
Date Received: 05/06/21 09:19

Lab Sample ID: 890-632-5
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/06/21 12:50	05/07/21 04:32	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/06/21 12:50	05/07/21 04:32	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/06/21 12:50	05/07/21 04:32	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/06/21 12:50	05/07/21 04:32	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/21 12:50	05/07/21 04:32	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/06/21 12:50	05/07/21 04:32	1
Total BTEX	<0.00399	U	0.00399		mg/Kg		05/06/21 12:50	05/07/21 04:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*05/06/21 12:50*	*05/07/21 04:32*	*1*
1,4-Difluorobenzene (Surr)	*117*		*70 - 130*	*05/06/21 12:50*	*05/07/21 04:32*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 17:30	1

Client Sample Results

Client: Contango Resources LLC
Project/Site: Enron State

Job ID: 890-632-1

Client Sample ID: SW5

Date Collected: 05/06/21 06:27
Date Received: 05/06/21 09:19

Lab Sample ID: 890-632-5
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 17:30	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 17:30	1
Total TPH	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 17:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*05/06/21 16:34*	*05/07/21 17:30*	*1*
o-Terphenyl	*117*		*70 - 130*	*05/06/21 16:34*	*05/07/21 17:30*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	102		4.95		mg/Kg			05/08/21 00:40	1

Client Sample ID: SW6

Date Collected: 05/06/21 06:35
Date Received: 05/06/21 09:19

Lab Sample ID: 890-632-6
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00202	U	0.00202		mg/Kg		05/06/21 12:50	05/07/21 04:53	1
Toluene	<0.00202	U	0.00202		mg/Kg		05/06/21 12:50	05/07/21 04:53	1
Ethylbenzene	<0.00202	U	0.00202		mg/Kg		05/06/21 12:50	05/07/21 04:53	1
m-Xylene & p-Xylene	<0.00403	U	0.00403		mg/Kg		05/06/21 12:50	05/07/21 04:53	1
o-Xylene	<0.00202	U	0.00202		mg/Kg		05/06/21 12:50	05/07/21 04:53	1
Xylenes, Total	<0.00403	U	0.00403		mg/Kg		05/06/21 12:50	05/07/21 04:53	1
Total BTEX	<0.00403	U	0.00403		mg/Kg		05/06/21 12:50	05/07/21 04:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*70 - 130*	*05/06/21 12:50*	*05/07/21 04:53*	*1*
1,4-Difluorobenzene (Surr)	*109*		*70 - 130*	*05/06/21 12:50*	*05/07/21 04:53*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/06/21 16:34	05/07/21 17:51	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/06/21 16:34	05/07/21 17:51	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/06/21 16:34	05/07/21 17:51	1
Total TPH	<49.9	U	49.9		mg/Kg		05/06/21 16:34	05/07/21 17:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*107*		*70 - 130*	*05/06/21 16:34*	*05/07/21 17:51*	*1*
o-Terphenyl	*113*		*70 - 130*	*05/06/21 16:34*	*05/07/21 17:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	95.7		5.00		mg/Kg			05/08/21 00:45	1

Client Sample Results

Client: Contango Resources LLC
Project/Site: Enron State

Job ID: 890-632-1

Client Sample ID: SW7

Date Collected: 05/06/21 06:43
Date Received: 05/06/21 09:19

Lab Sample ID: 890-632-7
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00199	U	0.00199		mg/Kg		05/06/21 12:50	05/07/21 05:14	1
Toluene	<0.00199	U	0.00199		mg/Kg		05/06/21 12:50	05/07/21 05:14	1
Ethylbenzene	<0.00199	U	0.00199		mg/Kg		05/06/21 12:50	05/07/21 05:14	1
m-Xylene & p-Xylene	<0.00398	U	0.00398		mg/Kg		05/06/21 12:50	05/07/21 05:14	1
o-Xylene	<0.00199	U	0.00199		mg/Kg		05/06/21 12:50	05/07/21 05:14	1
Xylenes, Total	<0.00398	U	0.00398		mg/Kg		05/06/21 12:50	05/07/21 05:14	1
Total BTEX	<0.00398	U	0.00398		mg/Kg		05/06/21 12:50	05/07/21 05:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*05/06/21 12:50*	*05/07/21 05:14*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*05/06/21 12:50*	*05/07/21 05:14*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/06/21 16:34	05/07/21 18:13	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/06/21 16:34	05/07/21 18:13	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/06/21 16:34	05/07/21 18:13	1
Total TPH	<49.9	U	49.9		mg/Kg		05/06/21 16:34	05/07/21 18:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*05/06/21 16:34*	*05/07/21 18:13*	*1*
o-Terphenyl	*120*		*70 - 130*	*05/06/21 16:34*	*05/07/21 18:13*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	393		5.04		mg/Kg			05/08/21 00:50	1

Client Sample ID: SW8

Date Collected: 05/06/21 06:51
Date Received: 05/06/21 09:19

Lab Sample ID: 890-632-8
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/06/21 12:50	05/07/21 05:34	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/06/21 12:50	05/07/21 05:34	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/06/21 12:50	05/07/21 05:34	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/06/21 12:50	05/07/21 05:34	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/06/21 12:50	05/07/21 05:34	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/06/21 12:50	05/07/21 05:34	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		05/06/21 12:50	05/07/21 05:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*05/06/21 12:50*	*05/07/21 05:34*	*1*
1,4-Difluorobenzene (Surr)	*121*		*70 - 130*	*05/06/21 12:50*	*05/07/21 05:34*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 18:34	1

Client Sample Results

Client: Contango Resources LLC
Project/Site: Enron State

Job ID: 890-632-1

Client Sample ID: SW8

Date Collected: 05/06/21 06:51
Date Received: 05/06/21 09:19

Lab Sample ID: 890-632-8
Matrix: Solid

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Diesel Range Organics (Over C10-C28)	56.4		50.0		mg/Kg		05/06/21 16:34	05/07/21 18:34	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 18:34	1
Total TPH	56.4		50.0		mg/Kg		05/06/21 16:34	05/07/21 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*05/06/21 16:34*	*05/07/21 18:34*	*1*
o-Terphenyl	*123*		*70 - 130*	*05/06/21 16:34*	*05/07/21 18:34*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	323		5.05		mg/Kg			05/08/21 00:56	1

Client Sample ID: SW9

Date Collected: 05/06/21 07:00
Date Received: 05/06/21 09:19

Lab Sample ID: 890-632-9
Matrix: Solid

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	0.00268		0.00200		mg/Kg		05/06/21 12:50	05/07/21 05:55	1
Toluene	0.00252		0.00200		mg/Kg		05/06/21 12:50	05/07/21 05:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/06/21 12:50	05/07/21 05:55	1
m-Xylene & p-Xylene	<0.00399	U	0.00399		mg/Kg		05/06/21 12:50	05/07/21 05:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/21 12:50	05/07/21 05:55	1
Xylenes, Total	<0.00399	U	0.00399		mg/Kg		05/06/21 12:50	05/07/21 05:55	1
Total BTEX	0.00520		0.00399		mg/Kg		05/06/21 12:50	05/07/21 05:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*70 - 130*	*05/06/21 12:50*	*05/07/21 05:55*	*1*
1,4-Difluorobenzene (Surr)	*110*		*70 - 130*	*05/06/21 12:50*	*05/07/21 05:55*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/06/21 16:34	05/07/21 18:55	1
Diesel Range Organics (Over C10-C28)	<49.9	U	49.9		mg/Kg		05/06/21 16:34	05/07/21 18:55	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/06/21 16:34	05/07/21 18:55	1
Total TPH	<49.9	U	49.9		mg/Kg		05/06/21 16:34	05/07/21 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*115*		*70 - 130*	*05/06/21 16:34*	*05/07/21 18:55*	*1*
o-Terphenyl	*122*		*70 - 130*	*05/06/21 16:34*	*05/07/21 18:55*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	264		4.98		mg/Kg			05/08/21 01:01	1

Client Sample Results

Client: Contango Resources LLC
Project/Site: Enron State

Job ID: 890-632-1

Client Sample ID: FS 1 @ 1FT

Lab Sample ID: 890-632-10
Matrix: Solid

Date Collected: 05/06/21 08:12
Date Received: 05/06/21 09:19
Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/06/21 12:50	05/07/21 06:16	1
Toluene	0.00251		0.00200		mg/Kg		05/06/21 12:50	05/07/21 06:16	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/06/21 12:50	05/07/21 06:16	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/06/21 12:50	05/07/21 06:16	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/21 12:50	05/07/21 06:16	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/06/21 12:50	05/07/21 06:16	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/06/21 12:50	05/07/21 06:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*	*05/06/21 12:50*	*05/07/21 06:16*	*1*
1,4-Difluorobenzene (Surr)	*105*		*70 - 130*	*05/06/21 12:50*	*05/07/21 06:16*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 19:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 19:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 19:15	1
Total TPH	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 19:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*110*		*70 - 130*	*05/06/21 16:34*	*05/07/21 19:15*	*1*
o-Terphenyl	*120*		*70 - 130*	*05/06/21 16:34*	*05/07/21 19:15*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	212		5.04		mg/Kg			05/08/21 01:17	1

Client Sample ID: FS 2 @ 1 FT

Lab Sample ID: 890-632-11
Matrix: Solid

Date Collected: 05/06/21 07:21
Date Received: 05/06/21 09:19
Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/06/21 12:50	05/07/21 06:37	1
Toluene	<0.00198	U	0.00198		mg/Kg		05/06/21 12:50	05/07/21 06:37	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/06/21 12:50	05/07/21 06:37	1
m-Xylene & p-Xylene	<0.00397	U	0.00397		mg/Kg		05/06/21 12:50	05/07/21 06:37	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/06/21 12:50	05/07/21 06:37	1
Xylenes, Total	<0.00397	U	0.00397		mg/Kg		05/06/21 12:50	05/07/21 06:37	1
Total BTEX	<0.00397	U	0.00397		mg/Kg		05/06/21 12:50	05/07/21 06:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*70 - 130*	*05/06/21 12:50*	*05/07/21 06:37*	*1*
1,4-Difluorobenzene (Surr)	*112*		*70 - 130*	*05/06/21 12:50*	*05/07/21 06:37*	*1*

Client Sample Results

Client: Contango Resources LLC
Project/Site: Enron State

Job ID: 890-632-1

Client Sample ID: FS 2 @ 1 FT

Lab Sample ID: 890-632-11
Matrix: Solid

Date Collected: 05/06/21 07:21
Date Received: 05/06/21 09:19
Sample Depth: - 1

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<49.9	U	49.9		mg/Kg		05/06/21 16:34	05/07/21 19:36	1
Diesel Range Organics (Over C10-C28)	50.0		49.9		mg/Kg		05/06/21 16:34	05/07/21 19:36	1
Oil Range Organics (Over C28-C36)	<49.9	U	49.9		mg/Kg		05/06/21 16:34	05/07/21 19:36	1
Total TPH	50.0		49.9		mg/Kg		05/06/21 16:34	05/07/21 19:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*112*		*70 - 130*	*05/06/21 16:34*	*05/07/21 19:36*	*1*
o-Terphenyl	*120*		*70 - 130*	*05/06/21 16:34*	*05/07/21 19:36*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	278		4.97		mg/Kg			05/08/21 01:23	1

Client Sample ID: FS 3 @ 1 FT

Lab Sample ID: 890-632-12
Matrix: Solid

Date Collected: 05/06/21 07:48
Date Received: 05/06/21 09:19
Sample Depth: - 1

Method: 8021B - Volatile Organic Compounds (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00198	U	0.00198		mg/Kg		05/06/21 12:50	05/07/21 06:57	1
Toluene	0.00200		0.00198		mg/Kg		05/06/21 12:50	05/07/21 06:57	1
Ethylbenzene	<0.00198	U	0.00198		mg/Kg		05/06/21 12:50	05/07/21 06:57	1
m-Xylene & p-Xylene	<0.00396	U	0.00396		mg/Kg		05/06/21 12:50	05/07/21 06:57	1
o-Xylene	<0.00198	U	0.00198		mg/Kg		05/06/21 12:50	05/07/21 06:57	1
Xylenes, Total	<0.00396	U	0.00396		mg/Kg		05/06/21 12:50	05/07/21 06:57	1
Total BTEX	<0.00396	U	0.00396		mg/Kg		05/06/21 12:50	05/07/21 06:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*70 - 130*	*05/06/21 12:50*	*05/07/21 06:57*	*1*
1,4-Difluorobenzene (Surr)	*116*		*70 - 130*	*05/06/21 12:50*	*05/07/21 06:57*	*1*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 19:57	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 19:57	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 19:57	1
Total TPH	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 19:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*118*		*70 - 130*	*05/06/21 16:34*	*05/07/21 19:57*	*1*
o-Terphenyl	*124*		*70 - 130*	*05/06/21 16:34*	*05/07/21 19:57*	*1*

Method: 300.0 - Anions, Ion Chromatography - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	243		4.95		mg/Kg			05/08/21 01:39	1

Surrogate Summary

Client: Contango Resources LLC
Project/Site: Enron State

Job ID: 890-632-1

Method: 8021B - Volatile Organic Compounds (GC)

Matrix: Solid — **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) BFB1 (70-130)	DFBZ1 (70-130)
890-632-1	SW1	101	118
890-632-2	SW2	95	118
890-632-3	SW3	102	116
890-632-4	SW4	99	114
890-632-5	SW5	98	117
890-632-6	SW6	104	109
890-632-7	SW7	103	105
890-632-8	SW8	106	121
890-632-9	SW9	103	110
890-632-10	FS 1 @ 1FT	98	105
890-632-11	FS 2 @ 1 FT	108	112
890-632-12	FS 3 @ 1 FT	107	116
LCS 880-2779/1-A	Lab Control Sample	98	111
LCSD 880-2779/2-A	Lab Control Sample Dup	94	106
MB 880-2707/5-A	Method Blank	106	98
MB 880-2779/5-A	Method Blank	110	102

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DFBZ = 1,4-Difluorobenzene (Surr)

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Matrix: Solid — **Prep Type: Total/NA**

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits) 1CO1 (70-130)	OTPH1 (70-130)
890-632-1	SW1	110	117
890-632-2	SW2	106	113
890-632-3	SW3	110	120
890-632-4	SW4	112	119
890-632-5	SW5	110	117
890-632-6	SW6	107	113
890-632-7	SW7	115	120
890-632-8	SW8	115	123
890-632-9	SW9	115	122
890-632-10	FS 1 @ 1FT	110	120
890-632-11	FS 2 @ 1 FT	112	120
890-632-12	FS 3 @ 1 FT	118	124
LCS 880-2793/2-A	Lab Control Sample	106	107
LCSD 880-2793/3-A	Lab Control Sample Dup	110	108
MB 880-2793/1-A	Method Blank	97	105

Surrogate Legend

1CO = 1-Chlorooctane
OTPH = o-Terphenyl

QC Sample Results

Client: Contango Resources LLC
Project/Site: Enron State

Job ID: 890-632-1

Method: 8021B - Volatile Organic Compounds (GC)

Lab Sample ID: MB 880-2707/5-A
Matrix: Solid
Analysis Batch: 2757

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2707

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/05/21 11:00	05/06/21 11:55	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/05/21 11:00	05/06/21 11:55	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/05/21 11:00	05/06/21 11:55	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/05/21 11:00	05/06/21 11:55	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/05/21 11:00	05/06/21 11:55	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/05/21 11:00	05/06/21 11:55	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/05/21 11:00	05/06/21 11:55	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*70 - 130*	*05/05/21 11:00*	*05/06/21 11:55*	*1*
1,4-Difluorobenzene (Surr)	*98*		*70 - 130*	*05/05/21 11:00*	*05/06/21 11:55*	*1*

Lab Sample ID: MB 880-2779/5-A
Matrix: Solid
Analysis Batch: 2757

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2779

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	<0.00200	U	0.00200		mg/Kg		05/06/21 12:50	05/06/21 22:58	1
Toluene	<0.00200	U	0.00200		mg/Kg		05/06/21 12:50	05/06/21 22:58	1
Ethylbenzene	<0.00200	U	0.00200		mg/Kg		05/06/21 12:50	05/06/21 22:58	1
m-Xylene & p-Xylene	<0.00400	U	0.00400		mg/Kg		05/06/21 12:50	05/06/21 22:58	1
o-Xylene	<0.00200	U	0.00200		mg/Kg		05/06/21 12:50	05/06/21 22:58	1
Xylenes, Total	<0.00400	U	0.00400		mg/Kg		05/06/21 12:50	05/06/21 22:58	1
Total BTEX	<0.00400	U	0.00400		mg/Kg		05/06/21 12:50	05/06/21 22:58	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*70 - 130*	*05/06/21 12:50*	*05/06/21 22:58*	*1*
1,4-Difluorobenzene (Surr)	*102*		*70 - 130*	*05/06/21 12:50*	*05/06/21 22:58*	*1*

Lab Sample ID: LCS 880-2779/1-A
Matrix: Solid
Analysis Batch: 2757

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2779

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	0.100	0.08429		mg/Kg		84	70 - 130
Toluene	0.100	0.09405		mg/Kg		94	70 - 130
Ethylbenzene	0.100	0.08942		mg/Kg		89	70 - 130
m-Xylene & p-Xylene	0.200	0.1813		mg/Kg		91	70 - 130
o-Xylene	0.100	0.09021		mg/Kg		90	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*70 - 130*
1,4-Difluorobenzene (Surr)	*111*		*70 - 130*

QC Sample Results

Client: Contango Resources LLC
Project/Site: Enron State

Job ID: 890-632-1

Method: 8021B - Volatile Organic Compounds (GC) (Continued)

Lab Sample ID: LCSD 880-2779/2-A
Matrix: Solid
Analysis Batch: 2757

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2779

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	0.100	0.08400		mg/Kg		84	70 - 130	0	35
Toluene	0.100	0.09012		mg/Kg		90	70 - 130	4	35
Ethylbenzene	0.100	0.08602		mg/Kg		86	70 - 130	4	35
m-Xylene & p-Xylene	0.200	0.1758		mg/Kg		88	70 - 130	3	35
o-Xylene	0.100	0.08685		mg/Kg		87	70 - 130	4	35

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*70 - 130*
1,4-Difluorobenzene (Surr)	*106*		*70 - 130*

Method: 8015B NM - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 880-2793/1-A
Matrix: Solid
Analysis Batch: 2812

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 2793

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (GRO)-C6-C10	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 11:15	1
Diesel Range Organics (Over C10-C28)	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 11:15	1
Oil Range Organics (Over C28-C36)	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 11:15	1
Total TPH	<50.0	U	50.0		mg/Kg		05/06/21 16:34	05/07/21 11:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1-Chlorooctane	*97*		*70 - 130*	*05/06/21 16:34*	*05/07/21 11:15*	*1*
o-Terphenyl	*105*		*70 - 130*	*05/06/21 16:34*	*05/07/21 11:15*	*1*

Lab Sample ID: LCS 880-2793/2-A
Matrix: Solid
Analysis Batch: 2812

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 2793

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Gasoline Range Organics (GRO)-C6-C10	1000	933.4		mg/Kg		93	70 - 130
Diesel Range Organics (Over C10-C28)	1000	1115		mg/Kg		111	70 - 130

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
1-Chlorooctane	*106*		*70 - 130*
o-Terphenyl	*107*		*70 - 130*

Lab Sample ID: LCSD 880-2793/3-A
Matrix: Solid
Analysis Batch: 2812

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2793

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Gasoline Range Organics (GRO)-C6-C10	1000	985.1		mg/Kg		99	70 - 130	5	20

QC Sample Results

Client: Contango Resources LLC
Project/Site: Enron State

Job ID: 890-632-1

Method: 8015B NM - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 880-2793/3-A
Matrix: Solid
Analysis Batch: 2812

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 2793

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Diesel Range Organics (Over C10-C28)	1000	1151		mg/Kg		115	70 - 130	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
1-Chlorooctane	*110*		*70 - 130*
o-Terphenyl	*108*		*70 - 130*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 880-2803/1-A
Matrix: Solid
Analysis Batch: 2806

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/07/21 09:29	1

Lab Sample ID: LCS 880-2803/2-A
Matrix: Solid
Analysis Batch: 2806

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	240.8		mg/Kg		96	90 - 110

Lab Sample ID: LCSD 880-2803/3-A
Matrix: Solid
Analysis Batch: 2806

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	240.3		mg/Kg		96	90 - 110	0	20

Lab Sample ID: 890-632-2 MS
Matrix: Solid
Analysis Batch: 2806

Client Sample ID: SW2
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	248		248	481.2		mg/Kg		94	90 - 110

Lab Sample ID: 890-632-2 MSD
Matrix: Solid
Analysis Batch: 2806

Client Sample ID: SW2
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	248		248	477.9		mg/Kg		93	90 - 110	1	20

Lab Sample ID: MB 880-2852/1-A
Matrix: Solid
Analysis Batch: 2853

Client Sample ID: Method Blank
Prep Type: Soluble

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	<5.00	U	5.00		mg/Kg			05/07/21 23:30	1

QC Sample Results

Client: Contango Resources LLC
Project/Site: Enron State

Job ID: 890-632-1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 880-2852/2-A
Matrix: Solid
Analysis Batch: 2853

Client Sample ID: Lab Control Sample
Prep Type: Soluble

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	250	231.5		mg/Kg		93	90 - 110

Lab Sample ID: LCSD 880-2852/3-A
Matrix: Solid
Analysis Batch: 2853

Client Sample ID: Lab Control Sample Dup
Prep Type: Soluble

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	250	243.8		mg/Kg		98	90 - 110	5	20

Lab Sample ID: 890-632-9 MS
Matrix: Solid
Analysis Batch: 2853

Client Sample ID: SW9
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	264		249	492.1		mg/Kg		92	90 - 110

Lab Sample ID: 890-632-9 MSD
Matrix: Solid
Analysis Batch: 2853

Client Sample ID: SW9
Prep Type: Soluble

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Chloride	264		249	488.7		mg/Kg		90	90 - 110	1	20

QC Association Summary

Client: Contango Resources LLC
Project/Site: Enron State

Job ID: 890-632-1

GC VOA

Prep Batch: 2707

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 880-2707/5-A	Method Blank	Total/NA	Solid	5035	

Analysis Batch: 2757

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-632-1	SW1	Total/NA	Solid	8021B	2779
890-632-2	SW2	Total/NA	Solid	8021B	2779
890-632-3	SW3	Total/NA	Solid	8021B	2779
890-632-4	SW4	Total/NA	Solid	8021B	2779
890-632-5	SW5	Total/NA	Solid	8021B	2779
890-632-6	SW6	Total/NA	Solid	8021B	2779
890-632-7	SW7	Total/NA	Solid	8021B	2779
890-632-8	SW8	Total/NA	Solid	8021B	2779
890-632-9	SW9	Total/NA	Solid	8021B	2779
890-632-10	FS 1 @ 1FT	Total/NA	Solid	8021B	2779
890-632-11	FS 2 @ 1 FT	Total/NA	Solid	8021B	2779
890-632-12	FS 3 @ 1 FT	Total/NA	Solid	8021B	2779
MB 880-2707/5-A	Method Blank	Total/NA	Solid	8021B	2707
MB 880-2779/5-A	Method Blank	Total/NA	Solid	8021B	2779
LCS 880-2779/1-A	Lab Control Sample	Total/NA	Solid	8021B	2779
LCSD 880-2779/2-A	Lab Control Sample Dup	Total/NA	Solid	8021B	2779

Prep Batch: 2779

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-632-1	SW1	Total/NA	Solid	5035	
890-632-2	SW2	Total/NA	Solid	5035	
890-632-3	SW3	Total/NA	Solid	5035	
890-632-4	SW4	Total/NA	Solid	5035	
890-632-5	SW5	Total/NA	Solid	5035	
890-632-6	SW6	Total/NA	Solid	5035	
890-632-7	SW7	Total/NA	Solid	5035	
890-632-8	SW8	Total/NA	Solid	5035	
890-632-9	SW9	Total/NA	Solid	5035	
890-632-10	FS 1 @ 1FT	Total/NA	Solid	5035	
890-632-11	FS 2 @ 1 FT	Total/NA	Solid	5035	
890-632-12	FS 3 @ 1 FT	Total/NA	Solid	5035	
MB 880-2779/5-A	Method Blank	Total/NA	Solid	5035	
LCS 880-2779/1-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 880-2779/2-A	Lab Control Sample Dup	Total/NA	Solid	5035	

GC Semi VOA

Prep Batch: 2793

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-632-1	SW1	Total/NA	Solid	8015NM Prep	
890-632-2	SW2	Total/NA	Solid	8015NM Prep	
890-632-3	SW3	Total/NA	Solid	8015NM Prep	
890-632-4	SW4	Total/NA	Solid	8015NM Prep	
890-632-5	SW5	Total/NA	Solid	8015NM Prep	
890-632-6	SW6	Total/NA	Solid	8015NM Prep	
890-632-7	SW7	Total/NA	Solid	8015NM Prep	
890-632-8	SW8	Total/NA	Solid	8015NM Prep	

QC Association Summary

Client: Contango Resources LLC
Project/Site: Enron State

Job ID: 890-632-1

GC Semi VOA (Continued)

Prep Batch: 2793 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-632-9	SW9	Total/NA	Solid	8015NM Prep	
890-632-10	FS 1 @ 1FT	Total/NA	Solid	8015NM Prep	
890-632-11	FS 2 @ 1 FT	Total/NA	Solid	8015NM Prep	
890-632-12	FS 3 @ 1 FT	Total/NA	Solid	8015NM Prep	
MB 880-2793/1-A	Method Blank	Total/NA	Solid	8015NM Prep	
LCS 880-2793/2-A	Lab Control Sample	Total/NA	Solid	8015NM Prep	
LCSD 880-2793/3-A	Lab Control Sample Dup	Total/NA	Solid	8015NM Prep	

Analysis Batch: 2812

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-632-1	SW1	Total/NA	Solid	8015B NM	2793
890-632-2	SW2	Total/NA	Solid	8015B NM	2793
890-632-3	SW3	Total/NA	Solid	8015B NM	2793
890-632-4	SW4	Total/NA	Solid	8015B NM	2793
890-632-5	SW5	Total/NA	Solid	8015B NM	2793
890-632-6	SW6	Total/NA	Solid	8015B NM	2793
890-632-7	SW7	Total/NA	Solid	8015B NM	2793
890-632-8	SW8	Total/NA	Solid	8015B NM	2793
890-632-9	SW9	Total/NA	Solid	8015B NM	2793
890-632-10	FS 1 @ 1FT	Total/NA	Solid	8015B NM	2793
890-632-11	FS 2 @ 1 FT	Total/NA	Solid	8015B NM	2793
890-632-12	FS 3 @ 1 FT	Total/NA	Solid	8015B NM	2793
MB 880-2793/1-A	Method Blank	Total/NA	Solid	8015B NM	2793
LCS 880-2793/2-A	Lab Control Sample	Total/NA	Solid	8015B NM	2793
LCSD 880-2793/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B NM	2793

HPLC/IC

Leach Batch: 2803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-632-1	SW1	Soluble	Solid	DI Leach	
890-632-2	SW2	Soluble	Solid	DI Leach	
MB 880-2803/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2803/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2803/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-632-2 MS	SW2	Soluble	Solid	DI Leach	
890-632-2 MSD	SW2	Soluble	Solid	DI Leach	

Analysis Batch: 2806

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-632-1	SW1	Soluble	Solid	300.0	2803
890-632-2	SW2	Soluble	Solid	300.0	2803
MB 880-2803/1-A	Method Blank	Soluble	Solid	300.0	2803
LCS 880-2803/2-A	Lab Control Sample	Soluble	Solid	300.0	2803
LCSD 880-2803/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2803
890-632-2 MS	SW2	Soluble	Solid	300.0	2803
890-632-2 MSD	SW2	Soluble	Solid	300.0	2803

Leach Batch: 2852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-632-3	SW3	Soluble	Solid	DI Leach	

QC Association Summary

Client: Contango Resources LLC
Project/Site: Enron State

Job ID: 890-632-1

HPLC/IC (Continued)

Leach Batch: 2852 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-632-4	SW4	Soluble	Solid	DI Leach	
890-632-5	SW5	Soluble	Solid	DI Leach	
890-632-6	SW6	Soluble	Solid	DI Leach	
890-632-7	SW7	Soluble	Solid	DI Leach	
890-632-8	SW8	Soluble	Solid	DI Leach	
890-632-9	SW9	Soluble	Solid	DI Leach	
890-632-10	FS 1 @ 1FT	Soluble	Solid	DI Leach	
890-632-11	FS 2 @ 1 FT	Soluble	Solid	DI Leach	
890-632-12	FS 3 @ 1 FT	Soluble	Solid	DI Leach	
MB 880-2852/1-A	Method Blank	Soluble	Solid	DI Leach	
LCS 880-2852/2-A	Lab Control Sample	Soluble	Solid	DI Leach	
LCSD 880-2852/3-A	Lab Control Sample Dup	Soluble	Solid	DI Leach	
890-632-9 MS	SW9	Soluble	Solid	DI Leach	
890-632-9 MSD	SW9	Soluble	Solid	DI Leach	

Analysis Batch: 2853

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
890-632-3	SW3	Soluble	Solid	300.0	2852
890-632-4	SW4	Soluble	Solid	300.0	2852
890-632-5	SW5	Soluble	Solid	300.0	2852
890-632-6	SW6	Soluble	Solid	300.0	2852
890-632-7	SW7	Soluble	Solid	300.0	2852
890-632-8	SW8	Soluble	Solid	300.0	2852
890-632-9	SW9	Soluble	Solid	300.0	2852
890-632-10	FS 1 @ 1FT	Soluble	Solid	300.0	2852
890-632-11	FS 2 @ 1 FT	Soluble	Solid	300.0	2852
890-632-12	FS 3 @ 1 FT	Soluble	Solid	300.0	2852
MB 880-2852/1-A	Method Blank	Soluble	Solid	300.0	2852
LCS 880-2852/2-A	Lab Control Sample	Soluble	Solid	300.0	2852
LCSD 880-2852/3-A	Lab Control Sample Dup	Soluble	Solid	300.0	2852
890-632-9 MS	SW9	Soluble	Solid	300.0	2852
890-632-9 MSD	SW9	Soluble	Solid	300.0	2852

Lab Chronicle

Client: Contango Resources LLC
Project/Site: Enron State

Job ID: 890-632-1

Client Sample ID: SW1

Date Collected: 05/06/21 06:04
Date Received: 05/06/21 09:19

Lab Sample ID: 890-632-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2779	05/06/21 12:50	KL	XM
Total/NA	Analysis	8021B		1	2757	05/07/21 02:06	KL	XM
Total/NA	Prep	8015NM Prep			2793	05/06/21 16:34	DM	XM
Total/NA	Analysis	8015B NM		1	2812	05/07/21 15:46	AJ	XM
Soluble	Leach	DI Leach			2803	05/06/21 17:18	SC	XM
Soluble	Analysis	300.0		1	2806	05/07/21 10:58	CH	XM

Client Sample ID: SW2

Date Collected: 05/06/21 06:11
Date Received: 05/06/21 09:19

Lab Sample ID: 890-632-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2779	05/06/21 12:50	KL	XM
Total/NA	Analysis	8021B		1	2757	05/07/21 02:27	KL	XM
Total/NA	Prep	8015NM Prep			2793	05/06/21 16:34	DM	XM
Total/NA	Analysis	8015B NM		1	2812	05/07/21 16:07	AJ	XM
Soluble	Leach	DI Leach			2803	05/06/21 17:18	SC	XM
Soluble	Analysis	300.0		1	2806	05/07/21 11:04	CH	XM

Client Sample ID: SW3

Date Collected: 05/06/21 06:14
Date Received: 05/06/21 09:19

Lab Sample ID: 890-632-3
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2779	05/06/21 12:50	KL	XM
Total/NA	Analysis	8021B		1	2757	05/07/21 03:51	KL	XM
Total/NA	Prep	8015NM Prep			2793	05/06/21 16:34	DM	XM
Total/NA	Analysis	8015B NM		1	2812	05/07/21 16:49	AJ	XM
Soluble	Leach	DI Leach			2852	05/07/21 16:52	CH	XM
Soluble	Analysis	300.0		1	2853	05/08/21 00:18	SC	XM

Client Sample ID: SW4

Date Collected: 05/06/21 06:21
Date Received: 05/06/21 09:19

Lab Sample ID: 890-632-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2779	05/06/21 12:50	KL	XM
Total/NA	Analysis	8021B		1	2757	05/07/21 04:11	KL	XM
Total/NA	Prep	8015NM Prep			2793	05/06/21 16:34	DM	XM
Total/NA	Analysis	8015B NM		1	2812	05/07/21 17:10	AJ	XM
Soluble	Leach	DI Leach			2852	05/07/21 16:52	CH	XM
Soluble	Analysis	300.0		1	2853	05/08/21 00:34	SC	XM

Lab Chronicle

Client: Contango Resources LLC
Project/Site: Enron State

Job ID: 890-632-1

Client Sample ID: SW5

Date Collected: 05/06/21 06:27
Date Received: 05/06/21 09:19

Lab Sample ID: 890-632-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2779	05/06/21 12:50	KL	XM
Total/NA	Analysis	8021B		1	2757	05/07/21 04:32	KL	XM
Total/NA	Prep	8015NM Prep			2793	05/06/21 16:34	DM	XM
Total/NA	Analysis	8015B NM		1	2812	05/07/21 17:30	AJ	XM
Soluble	Leach	DI Leach			2852	05/07/21 16:52	CH	XM
Soluble	Analysis	300.0		1	2853	05/08/21 00:40	SC	XM

Client Sample ID: SW6

Date Collected: 05/06/21 06:35
Date Received: 05/06/21 09:19

Lab Sample ID: 890-632-6
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2779	05/06/21 12:50	KL	XM
Total/NA	Analysis	8021B		1	2757	05/07/21 04:53	KL	XM
Total/NA	Prep	8015NM Prep			2793	05/06/21 16:34	DM	XM
Total/NA	Analysis	8015B NM		1	2812	05/07/21 17:51	AJ	XM
Soluble	Leach	DI Leach			2852	05/07/21 16:52	CH	XM
Soluble	Analysis	300.0		1	2853	05/08/21 00:45	SC	XM

Client Sample ID: SW7

Date Collected: 05/06/21 06:43
Date Received: 05/06/21 09:19

Lab Sample ID: 890-632-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2779	05/06/21 12:50	KL	XM
Total/NA	Analysis	8021B		1	2757	05/07/21 05:14	KL	XM
Total/NA	Prep	8015NM Prep			2793	05/06/21 16:34	DM	XM
Total/NA	Analysis	8015B NM		1	2812	05/07/21 18:13	AJ	XM
Soluble	Leach	DI Leach			2852	05/07/21 16:52	CH	XM
Soluble	Analysis	300.0		1	2853	05/08/21 00:50	SC	XM

Client Sample ID: SW8

Date Collected: 05/06/21 06:51
Date Received: 05/06/21 09:19

Lab Sample ID: 890-632-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2779	05/06/21 12:50	KL	XM
Total/NA	Analysis	8021B		1	2757	05/07/21 05:34	KL	XM
Total/NA	Prep	8015NM Prep			2793	05/06/21 16:34	DM	XM
Total/NA	Analysis	8015B NM		1	2812	05/07/21 18:34	AJ	XM
Soluble	Leach	DI Leach			2852	05/07/21 16:52	CH	XM
Soluble	Analysis	300.0		1	2853	05/08/21 00:56	SC	XM

Lab Chronicle

Client: Contango Resources LLC
Project/Site: Enron State

Job ID: 890-632-1

Client Sample ID: SW9

Date Collected: 05/06/21 07:00
Date Received: 05/06/21 09:19

Lab Sample ID: 890-632-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2779	05/06/21 12:50	KL	XM
Total/NA	Analysis	8021B		1	2757	05/07/21 05:55	KL	XM
Total/NA	Prep	8015NM Prep			2793	05/06/21 16:34	DM	XM
Total/NA	Analysis	8015B NM		1	2812	05/07/21 18:55	AJ	XM
Soluble	Leach	DI Leach			2852	05/07/21 16:52	CH	XM
Soluble	Analysis	300.0		1	2853	05/08/21 01:01	SC	XM

Client Sample ID: FS 1 @ 1FT

Date Collected: 05/06/21 08:12
Date Received: 05/06/21 09:19

Lab Sample ID: 890-632-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2779	05/06/21 12:50	KL	XM
Total/NA	Analysis	8021B		1	2757	05/07/21 06:16	KL	XM
Total/NA	Prep	8015NM Prep			2793	05/06/21 16:34	DM	XM
Total/NA	Analysis	8015B NM		1	2812	05/07/21 19:15	AJ	XM
Soluble	Leach	DI Leach			2852	05/07/21 16:52	CH	XM
Soluble	Analysis	300.0		1	2853	05/08/21 01:17	SC	XM

Client Sample ID: FS 2 @ 1 FT

Date Collected: 05/06/21 07:21
Date Received: 05/06/21 09:19

Lab Sample ID: 890-632-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2779	05/06/21 12:50	KL	XM
Total/NA	Analysis	8021B		1	2757	05/07/21 06:37	KL	XM
Total/NA	Prep	8015NM Prep			2793	05/06/21 16:34	DM	XM
Total/NA	Analysis	8015B NM		1	2812	05/07/21 19:36	AJ	XM
Soluble	Leach	DI Leach			2852	05/07/21 16:52	CH	XM
Soluble	Analysis	300.0		1	2853	05/08/21 01:23	SC	XM

Client Sample ID: FS 3 @ 1 FT

Date Collected: 05/06/21 07:48
Date Received: 05/06/21 09:19

Lab Sample ID: 890-632-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			2779	05/06/21 12:50	KL	XM
Total/NA	Analysis	8021B		1	2757	05/07/21 06:57	KL	XM
Total/NA	Prep	8015NM Prep			2793	05/06/21 16:34	DM	XM
Total/NA	Analysis	8015B NM		1	2812	05/07/21 19:57	AJ	XM
Soluble	Leach	DI Leach			2852	05/07/21 16:52	CH	XM
Soluble	Analysis	300.0		1	2853	05/08/21 01:39	SC	XM

Laboratory References:

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Accreditation/Certification Summary

Client: Contango Resources LLC
Project/Site: Enron State

Job ID: 890-632-1

Laboratory: Eurofins Xenco, Midland

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Texas	NELAP	T104704400-20-21	06-30-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B NM	8015NM Prep	Solid	Total TPH
8021B	5035	Solid	Total BTEX

Method Summary

Client: Contango Resources LLC
Project/Site: Enron State

Job ID: 890-632-1

Method	Method Description	Protocol	Laboratory
8021B	Volatile Organic Compounds (GC)	SW846	XM
8015B NM	Diesel Range Organics (DRO) (GC)	SW846	XM
300.0	Anions, Ion Chromatography	MCAWW	XM
5035	Closed System Purge and Trap	SW846	XM
8015NM Prep	Microextraction	SW846	XM
DI Leach	Deionized Water Leaching Procedure	ASTM	XM

Protocol References:

ASTM = ASTM International

MCAWW = "Methods For Chemical Analysis Of Water And Wastes", EPA-600/4-79-020, March 1983 And Subsequent Revisions.

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

XM = Eurofins Xenco, Midland, 1211 W. Florida Ave, Midland, TX 79701, TEL (432)704-5440

Sample Summary

Client: Contango Resources LLC
Project/Site: Enron State

Job ID: 890-632-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
890-632-1	SW1	Solid	05/06/21 06:04	05/06/21 09:19	
890-632-2	SW2	Solid	05/06/21 06:11	05/06/21 09:19	
890-632-3	SW3	Solid	05/06/21 06:14	05/06/21 09:19	
890-632-4	SW4	Solid	05/06/21 06:21	05/06/21 09:19	
890-632-5	SW5	Solid	05/06/21 06:27	05/06/21 09:19	
890-632-6	SW6	Solid	05/06/21 06:35	05/06/21 09:19	
890-632-7	SW7	Solid	05/06/21 06:43	05/06/21 09:19	
890-632-8	SW8	Solid	05/06/21 06:51	05/06/21 09:19	
890-632-9	SW9	Solid	05/06/21 07:00	05/06/21 09:19	
890-632-10	FS 1 @ 1FT	Solid	05/06/21 08:12	05/06/21 09:19	
890-632-11	FS 2 @ 1 FT	Solid	05/06/21 07:21	05/06/21 09:19	
890-632-12	FS 3 @ 1 FT	Solid	05/06/21 07:48	05/06/21 09:19	

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

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Project Manager:	Jr Curtis	Bill to: (if different)	
Company Name:	Contango Resources LLC	Company Name:	Contango Resources LLC
Address:	11405 Lovington Hwy	Address:	717 Texas Ave Ste 2900
City, State ZIP:	Artesia NM 88210	City, State ZIP:	Houston TX 77002
Phone:	575-420-8175	Email:	Jr. Curtis@contango.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Enron St	Turn Around	
Project Number:		☒ Routine ☐ Rush	
Project Location:	~~Eddy~~ Enron St	Due Date:	
Sampler's Name:	Jr Curtis	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT			
Temp Blank:	(Yes) No	Wet Ice:	(Yes) No
Samples Received Intact:	(Yes) No	Thermometer ID:	T-NM-007
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.7
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.0
Total Containers:		Corrected Temperature:	2.8

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Pres. Code	Parameters: Chloride (EPA 300)	TPH (8015 M)	BTEX (8021 B)	Sample Comments
SW 1	S	5-6-21	6:04 AM		Grab	1		X	X	X	
SW 2	S	5-6-21	6:11 AM			1		X	X	X	
SW 3	S	5-6-21	6:14 AM			1		X	X	X	
SW 4	S	5-6-21	6:21 AM			1		X	X	X	
SW 5	S	5-6-21	6:27 AM			1		X	X	X	
SW 6	S	5-6-21	6:35 AM			1		X	X	X	
SW 7	S	5-6-21	6:47 AM			1		X	X	X	
SW 8	S	5-6-21	6:51 AM			1		X	X	X	
SW 9	S	5-6-21	7:00 AM			1		X	X	X	

890-632 Chain of Custody

ANALYSIS REQUEST

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO_2 Na Sr Tl Sn U V Zn

~~Circle Method(s) and Metal(s) to be analyzed~~ TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		5-6-21 / 9:19	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020.2

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Chain of Custody

Houston, TX (281) 240-4200, Dallas, TX (214) 902-0300
Midland, TX (432) 704-5440, San Antonio, TX (210) 509-3334
EL Paso, TX (915) 585-3443, Lubbock, TX (806) 794-1296
Hobbs, NM (575) 392-7550, Carlsbad, NM (575) 988-3199

Work Order No: _____

www.xenco.com Page 2 of 2

Project Manager:	Jr Curtis	Bill to: (if different)	
Company Name:	Contango Resources LLC	Company Name:	Contango Resources LLC
Address:	11405 Lovington Hwy	Address:	717 Texas Ave Ste 2900
City, State ZIP:	Artesia NM 88210	City, State ZIP:	Houston TX 77002
Phone:	575-420-8175	Email:	Jr. Curtis@Contango.com

Work Order Comments

Program: UST/PST ☐ PRP ☐ Brownfields ☐ RRC ☐ Superfund ☐
State of Project:
Reporting: Level II ☐ Level III ☐ PST/UST ☐ TRRP ☐ Level IV ☐
Deliverables: EDD ☐ ADaPT ☐ Other:

Project Name:	Enron State	Turn Around	Pres. Code
Project Number:		☒ Routine ☐ Rush	
Project Location:	Enron State	Due Date:	
Sampler's Name:	Jr Curtis	TAT starts the day received by the lab, if received by 4:30pm	
PO #:			

SAMPLE RECEIPT	Temp Blank:	(Yes) No	Wet Ice:	(Yes) No	
Samples Received Intact:	(Yes) No	Thermometer ID:	T-NM-007		
Cooler Custody Seals:	Yes No (N/A)	Correction Factor:	-0.2		
Sample Custody Seals:	Yes No (N/A)	Temperature Reading:	3.0		
Total Containers:		Corrected Temperature:	2.8		

ANALYSIS REQUEST

Preservative Codes

None: NO | DI Water: H_2O
Cool: Cool | MeOH: Me
HCL: HC | HNO_3: HN
H_2SO_4: H_2 | NaOH: Na
H_3PO_4: HP
$NaHSO_4$: NABIS
$Na_2S_2O_3$: $NaSO_3$
Zn Acetate+NaOH: Zn
NaOH+Ascorbic Acid: SAPC

Sample Identification	Matrix	Date Sampled	Time Sampled	Depth	Grab/ Comp	# of Cont	Parameters: Chloride (EPA 300)	TPH (8015 M)	BTEX (8021B)	Sample Comments
FS 1 (0 1 ft)	S	5-6-21	8:12 Am	1 ft	Comp	1	X	X	X	
FS 2 (0 1 ft)	S	5-6-21	7:21 Am	1 ft	Comp	1	X	X	X	
FS 3 (0 1 ft)	S	5-6-21	7:48 Am	1 ft	Comp	1	X	X	X	

Total 200.7 / 6010 200.8 / 6020: 8RCRA 13PPM Texas 11 Al Sb As Ba Be B Cd Ca Cr Co Cu Fe Pb Mg Mn Mo Ni K Se Ag SiO2 Na Sr Tl Sn U V Zn

Circle Method(s) and Metal(s) to be analyzed TCLP / SPLP 6010: 8RCRA Sb As Ba Be Cd Cr Co Cu Pb Mn Mo Ni Se Ag Tl U Hg: 1631 / 245.1 / 7470 / 7471

Relinquished by: (Signature)	Received by: (Signature)	Date/Time	Relinquished by: (Signature)	Received by: (Signature)	Date/Time
1		5.6.21 / 9:20	2		
3			4		
5			6		

Revised Date 08/25/2020 Rev. 2020.2

Login Sample Receipt Checklist

Client: Contango Resources LLC

Job Number: 890-632-1

Login Number: 632
List Number: 1
Creator: Clifton, Cloe

List Source: Eurofins Carlsbad

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	

Login Sample Receipt Checklist

Client: Contango Resources LLC

Job Number: 890-632-1

Login Number: 632
List Number: 2
Creator: Copeland, Tatiana

List Source: Eurofins Midland
List Creation: 05/06/21 03:47 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

APPENDIX D

ENRON STATE BATTERY CLEANUP AROUND KNOCKOUT OF 1 FT

ENRON STATE BATTERY CLEANUP AROUND HEATERS

REMOVAL OF 1 FT OF CONTANMATED SOIL

ENRON STATE BACKFILL

ENRON STATE BACKFILL

ENRON STATE BACKFILL

ENRON STATE BACKFILL

ENRON STATE BACKFILL

ENRON STATE BACKFILL

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

Operator:	OGRID:
Contango Resources, Inc. 717 Texas Ave. Houston, TX 77002	330447
	Action Number: 30317
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
chensley	None	7/6/2021