



# Hudson 1 Federal Well #007

## CLOSURE REQUEST

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API No. 30-015-31513

Release Date: October 6, 2016

Unit Letter F, Section 1, Township 23 South, Range 30 East

NMOCD Case #: 2R-3955

**December 13, 2017**

**Prepared by:**

Michael Alves

Diversified Field Service, Inc.

206 W. Snyder

Hobbs, NM 88240

Phone: (575)964-8394

Fax: (575)393-8396

XTO ENERGY

12/13/2017

RE: **XTO – Hudson 1 Federal Well #007  
Closure Request**  
UL/F, Section 1, T23S, R30E  
API No. 30-015-31513  
NMOCD Case #: 2R-3955  
NMOCD Score: 0

Mrs. Ruth,

XTO Energy (XTO) has retained Diversified Environmental (DFSI) to address environmental issues for the site detailed herein.

The site is located northwest of Loving, NM, in Eddy County. The spill site resulted from a ruptured poly line, releasing a total of approximately 2 barrels of oil and 8 barrels of produced water, with 2 barrels of produced water and no oil recovered. An initial C-141 was submitted to NMOCD on October 21, 2016 and approved on October 24, 2016 (Appendix I).

DFSI has conducted a groundwater study of the area and has determined, according to the New Mexico Office of the State Engineer, the average depth to groundwater beneath this site is approximately 105 ft (Appendix II).

### **Site Assessment**

June 16, 2017 DFSI personnel were on site to obtain samples at regular intervals within the release area (Figure 1). Three samples were obtained and field tested for chloride levels, as well as BTEX. The samples were screened using a Mini Rae Photoionization Detector (PID). Clean field samples were submitted for laboratory analysis at Cardinal Laboratories of Hobbs, NM to obtain confirmation (Appendix III).

Beginning September 29, 2017, the release area was excavated to a depth of 4' bgs (Appendix IV) with excavated soil being properly disposed of at an approved NMOCD facility. Eight side wall samples were obtained and taken to Cardinal Laboratories to confirm all contaminants within the release area were removed (Figure 2/Appendix III). At the base of the excavation, a 20-mil, reinforced poly liner was installed and properly seated. Excavation was backfilled with clean, imported top soil to ground surface and contoured to the surrounding area. Due to season and limitation of growth, seeding will commence during the first few weeks of spring.

**Conclusion**

Due to the completion of approved corrective remediation work, DFSI, on behalf of XTO Energy, submits the final C-141 (Appendix V) and respectfully requests the closure of the regulatory file for this site.

Please feel free to contact us with any questions concerning this remediation request.

Sincerely,



Michael Alves  
Environmental Supervisor | Diversified Field Service, Inc.  
206 West Snyder | Hobbs, NM 88240  
Office: (575)964-8394 | Mobile: (575)631-3364  
Fax: (575)964-8396 | Email: malves@diversifiedfsi.com

Cc: Shelly Tucker, BLM: Mike Bratcher, NMOCD

Figures: Site Diagram  
Site Sidewall Diagram

Appendix I Initial C-141  
Appendix II Groundwater Study  
Appendix III Laboratory Analysis  
Appendix IV Site Photos  
Appendix V Final C-141

# Site Diagram

SP1										SP2										SP3													
Depth	Cl-	PID	Lab	Cl-	GRO	DRO	B	T	E	X	Depth	Cl-	PID	Lab	Cl-	GRO	DRO	B	T	E	X	Depth	Cl-	PID	Lab	Cl-	GRO	DRO	B	T	E	X	
SS	400	1.2									SS	13	1.8										SS	1,624	1.4								
1'	180	0									1'	12,125	0										1'	1,374	0.6								
2'	300	0									2'	5,769	0										2'	1,199	0.6								
3'	582	0									3'	3,859	0										3'	1,624	0.1								
4'	889	0									4'	695	0										4'	1,774	0								
5'	1588	0									5'	1022	0										5'	2,474	0								
6'	1971	0									6'	547	0										6'	2,474	0								
7'	2407	0									7'	168	0										7'	4223	0								
8'	2026	0									8'	128	0										8'	3873	0								
9'	1666	0									9'	173	0	32	<10	<10	<0.05	<0.05	<0.05	<0.15			9'	3523	0								
10'	983	0																					10'	3224	0								
11'	860	0																					11'	3224	0								
12'	420	0																					12'	2474	0								
13'	533	0	16	<10	<10	<0.05	<0.05	<0.05	<0.15														13'	2224	0								
																							14'	974	0								
																							15'	624	0	16	<10	<10	<0.05	<0.05	<0.05	<0.15	



**Legend**

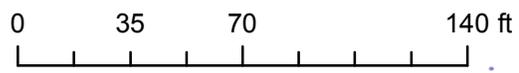
- Sample Points
- Oil and Produced Water (2586 sq ft)

Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community

**Figure 1**



**Hudson 1 Federal #007**  
**Unit Letter F, Section 1, T23S, R30E**  
**Eddy County, NM**  
**API #: 30-015-31513**  
**NMOCD Case #: 2R-3955**



# Site Diagram

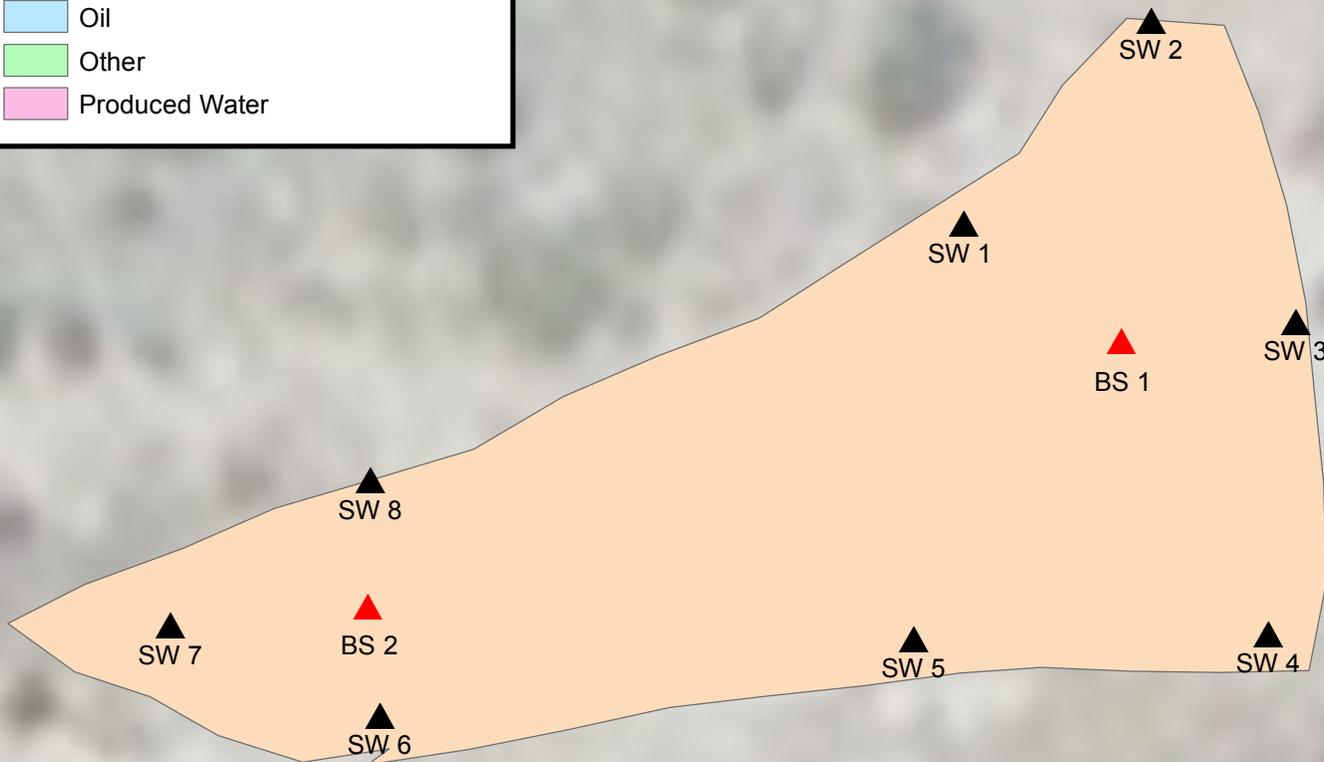
**Legend**

- ▲ Bottom Samples Points
- ▲ Sidewall Samples

**Spill**

**Spill\_Media**

- Oil and Produced H2O (2956 sq ft)
- Oil
- Other
- Produced Water

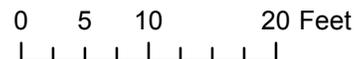


Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community

**Hudson Federal 007**  
**Unit Letter F , Section 1 , T23S, R30E**  
**Eddy County, NM**  
**API #: 30-015-31513**  
**NMOCD Case #: 2R-3955**



Mapped: 10/31/2017 A.V  
 Drafted by: A. Vargas



# Appendix I

INITIAL C-141

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Diversified Field Service, Inc.  
206 W. Snyder  
Hobbs, NM 88240  
(575) 964-8394

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. 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

NM OIL CONSERVATION

ARTESIA DISTRICT

Form C-141  
Revised August 8, 2011

OCT 21 2016

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

RECEIVED

Release Notification and Corrective Action

NAB1629852113

OPERATOR

Initial Report  Final Report

Name of Company: BOPCO, L.P.	2100737	Contact: Amy Ruth
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220		Telephone No. 575-887-7329
Facility Name: Hudson 1 Federal well #7		Facility Type: Exploration and Production

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-31513
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
F	1	23S	30E	1500	North	1800	West	Eddy

Latitude 32.337062° Longitude -103.837058°

NATURE OF RELEASE

Type of Release	Crude Oil and Produced Water	Volume of Release	2 bbls Oil 8 bbls PW	Volume Recovered	2 bbls PW
Source of Release	Poly flow line	Date and Hour of Occurrence	10/6/2016 time unknown	Date and Hour of Discovery	10/6/2016 approx. 10 am
Was Immediate Notice Given?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	N/A		
By Whom?	N/A	Date and Hour	N/A		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	N/A		
If a Watercourse was Impacted, Describe Fully.*	N/A				

Describe Cause of Problem and Remedial Action Taken.\*  
Poly flow line from well ruptured in area of pasture. Pumping unit was shut down and valves were closed for repairs.

Describe Area Affected and Cleanup Action Taken.\*  
The leak affected approximately 8,170 square feet of pasture (most of area misted) located north of the well. Free standing fluids were recovered.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD 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, NMOCD 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.

Signature:	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Amy C. Ruth	Approved by Environmental Specialist:	
Title: EHS Remediation Specialist	Approval Date: 10/24/16	Expiration Date: N/A
E-mail Address: ACRuth@basspet.com	Conditions of Approval: Remediation per O.C.D. Rules & Guidelines	Attached <input type="checkbox"/>
Date: 10/21/2016 Phone: 432-661-0571	<b>SUBMIT REMEDIATION PROPOSAL NO LATER THAN: 11/26/16</b>	

\* Attach Additional Sheets If Necessary

220-3955

# Appendix II

## GROUNDWATER STUDY

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Diversified Field Service, Inc.  
206 W. Snyder  
Hobbs, NM 88240  
(575) 964-8394



# 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	DepthWell	DepthWater	Water Column
<a href="#">C 03139</a>			ED	4	2	4	01	23S	30E	610424	3577764*	425		
<a href="#">C 03222 EXPLORE</a>			ED	1	1	4	12	23S	30E	609833	3576349*	365		
<a href="#">C 03559 POD1</a>		CUB	ED	4	3	2	01	23S	30E	609928	3578260	50	0	50
<a href="#">C 03559 POD2</a>		CUB	ED	4	3	2	01	23S	30E	609928	3578260	25	0	25
<a href="#">C 03559 POD3</a>		CUB	ED	4	3	2	01	23S	30E	609928	3578260	20	0	20
<a href="#">C 03559 POD4</a>		CUB	ED	4	3	2	01	23S	30E	609928	3578260	25	0	25
<a href="#">C 03559 POD5</a>		CUB	ED	4	3	2	01	23S	30E	609912	3578236	50		

Average Depth to Water: **0 feet**  
 Minimum Depth: **0 feet**  
 Maximum Depth: **0 feet**

**Record Count:** 7

**PLSS Search:**

**Section(s):** 1, 2, 11, 12    **Township:** 23S    **Range:** 30E

\*UTM location was derived from PLSS - see Help

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

11/9/17 4:25 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



# 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	POD Code	POD Sub-basin	County	Q 1	Q 2	Q 3	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
<a href="#">C 02492</a>			ED	4	4	4	06	23S	31E		612056	3577320*	135	85	50
<a href="#">C 02492 POD2</a>	C		ED	3	2	2	07	23S	31E		611767	3576996	400	125	275
<a href="#">C 02865</a>			ED	4	4	4	06	23S	31E		612056	3577320*	174		
<a href="#">C 03520 POD1</a>	C		ED	3	1	1	07	23S	31E		610733	3576905	500		

Average Depth to Water: **105 feet**

Minimum Depth: **85 feet**

Maximum Depth: **125 feet**

**Record Count:** 4

**PLSS Search:**

**Section(s):** 6, 7

**Township:** 23S

**Range:** 31E

\*UTM location was derived from PLSS - see Help

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

11/9/17 4:26 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



# 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 6	Q 16	Q 4	Sec	Tws	Rng	X	Y	DepthWell	DepthWater	Water Column
<a href="#">C 02638</a>			ED	4	3	3	35	22S	30E	607558	3578948*	528		
<a href="#">C 03561 POD1</a>		CUB	ED	3	2	3	36	22S	30E	609288	3579393	30	0	30
<a href="#">C 03561 POD2</a>		CUB	ED	3	2	3	36	22S	30E	609314	3579424	25	0	25
<a href="#">C 03561 POD3</a>		CUB	ED	3	2	3	36	22S	30E	609393	3579425	25	0	25
<a href="#">C 03561 POD4</a>		CUB	ED	3	2	3	36	22S	30E	609419	3579425	25	0	25
<a href="#">C 03561 POD5</a>		CUB	ED	3	2	3	36	22S	30E	609419	3579425	20	0	20

Average Depth to Water: **0 feet**  
 Minimum Depth: **0 feet**  
 Maximum Depth: **0 feet**

**Record Count:** 6

**PLSS Search:**

**Section(s):** 35, 36      **Township:** 22S      **Range:** 30E

\*UTM location was derived from PLSS - see Help

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

11/9/17 4:26 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER



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

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

No records found.

**PLSS Search:**

**Section(s):** 31      **Township:** 22S      **Range:** 31E

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

11/9/17 4:27 PM

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

# Appendix III

## LABORATORY ANALYSIS

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Diversified Field Service, Inc.  
206 W. Snyder  
Hobbs, NM 88240  
(575) 964-8394



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

---

June 20, 2017

MICHAEL ALVES

DIVERSIFIED FIELD SERVICES, INC.

P. O. BOX 5966

HOBBS, NM 88241

RE: HUDSON 7

Enclosed are the results of analyses for samples received by the laboratory on 06/19/17 8:25.

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](http://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 style with a large, flowing "C" and "K".

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

DIVERSIFIED FIELD SERVICES, INC.  
 MICHAEL ALVES  
 P. O. BOX 5966  
 HOBBS NM, 88241  
 Fax To: (575) 393-2981

Received:	06/19/2017	Sampling Date:	06/16/2017
Reported:	06/20/2017	Sampling Type:	Soil
Project Name:	HUDSON 7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SP1 @ 13' (H701574-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2017	ND	1.98	99.2	2.00	0.678	
Toluene*	<0.050	0.050	06/19/2017	ND	1.88	93.9	2.00	2.14	
Ethylbenzene*	<0.050	0.050	06/19/2017	ND	1.98	98.8	2.00	0.672	
Total Xylenes*	<0.150	0.150	06/19/2017	ND	5.31	88.4	6.00	0.551	
Total BTEX	<0.300	0.300	06/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.8 % 72-148

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	06/19/2017	ND	432	108	400	3.64	

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	06/19/2017	ND	187	93.7	200	3.52	
DRO >C10-C28	<10.0	10.0	06/19/2017	ND	192	96.2	200	3.54	

Surrogate: 1-Chlorooctane 87.3 % 28.3-164

Surrogate: 1-Chlorooctadecane 70.7 % 34.7-157

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

DIVERSIFIED FIELD SERVICES, INC.  
 MICHAEL ALVES  
 P. O. BOX 5966  
 HOBBS NM, 88241  
 Fax To: (575) 393-2981

Received:	06/19/2017	Sampling Date:	06/16/2017
Reported:	06/20/2017	Sampling Type:	Soil
Project Name:	HUDSON 7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SP2 @ 9' (H701574-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2017	ND	1.98	99.2	2.00	0.678	
Toluene*	<0.050	0.050	06/19/2017	ND	1.88	93.9	2.00	2.14	
Ethylbenzene*	<0.050	0.050	06/19/2017	ND	1.98	98.8	2.00	0.672	
Total Xylenes*	<0.150	0.150	06/19/2017	ND	5.31	88.4	6.00	0.551	
Total BTEX	<0.300	0.300	06/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

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	06/19/2017	ND	432	108	400	3.64	

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	06/19/2017	ND	187	93.7	200	3.52	
DRO >C10-C28	<10.0	10.0	06/19/2017	ND	192	96.2	200	3.54	

Surrogate: 1-Chlorooctane 78.5 % 28.3-164

Surrogate: 1-Chlorooctadecane 66.2 % 34.7-157

Cardinal Laboratories

\* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

DIVERSIFIED FIELD SERVICES, INC.  
 MICHAEL ALVES  
 P. O. BOX 5966  
 HOBBS NM, 88241  
 Fax To: (575) 393-2981

Received:	06/19/2017	Sampling Date:	06/16/2017
Reported:	06/20/2017	Sampling Type:	Soil
Project Name:	HUDSON 7	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	EDDY CO NM		

**Sample ID: SP3 @ 15' (H701574-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/19/2017	ND	1.98	99.2	2.00	0.678	
Toluene*	<0.050	0.050	06/19/2017	ND	1.88	93.9	2.00	2.14	
Ethylbenzene*	<0.050	0.050	06/19/2017	ND	1.98	98.8	2.00	0.672	
Total Xylenes*	<0.150	0.150	06/19/2017	ND	5.31	88.4	6.00	0.551	
Total BTEX	<0.300	0.300	06/19/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 72-148

Chloride, SM4500CI-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	06/19/2017	ND	432	108	400	3.64	

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	06/19/2017	ND	187	93.7	200	3.52	
DRO >C10-C28	<10.0	10.0	06/19/2017	ND	192	96.2	200	3.54	

Surrogate: 1-Chlorooctane 81.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 68.2 % 34.7-157

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Notes and Definitions**

- 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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**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**

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

**BILL TO**

**ANALYSIS REQUEST**

Company Name: **XTO Energy** P.O. #: \_\_\_\_\_  
 Project Manager: **Hobson 007** Attn: **Amy Ruth**  
 Address: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 City: \_\_\_\_\_ Address: \_\_\_\_\_  
 Phone #: \_\_\_\_\_ Fax #: \_\_\_\_\_  
 Project #: \_\_\_\_\_ Project Owner: \_\_\_\_\_  
 Project Name: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Project Location: **Hobson 007** Phone #: \_\_\_\_\_  
 Sampler Name: **H. ALVA** Fax #: \_\_\_\_\_  
 FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX							PRESERV.			SAMPLING			DATE	TIME	TPT	ESTEX
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER	ACID/BASE:	ICE / COOL	OTHER	DATE	TIME	TPT	ESTEX				
#761579-	1 SA. 10 @ B'		8			X	X				X	X			6/16/17	8:30	X	X		
	2 SP. 2 @ 9'		1			X	X				X	X			6/16/17	9:30	X	X		
	3 SP. 3 @ 15'		1			X	X				X	X			6/16/17	10:30	X	X		

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Relinquished By: \_\_\_\_\_ Date: **6/16/17** Time: **3:30 PM**  
 Received By: **Mollie Mung**  
 Delivered By: (Circle One) **UPS** - UPS - Bus - Other: **#75 - 3.10c**  
 Sample Condition:  Cool  Intact  
 Yes  No

Checked By: **MM**  
 E-mail Results To: **Ngaldan@diversifiedfi.com** **Malvas**  
**Rpons@diversifiedfi.com** **1floras**  
 Phone Result:  Yes  No Add'l Phone #: \_\_\_\_\_  
 Fax Result:  Yes  No Add'l Fax #: \_\_\_\_\_  
 REMARKS:

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



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---

October 31, 2017

MICHAEL ALVES

DIVERSIFIED FIELD SERVICES, INC.

P. O. BOX 5966

HOBBS, NM 88241

RE: HUDSON 7

Enclosed are the results of analyses for samples received by the laboratory on 10/25/17 8:00.

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](http://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 style.

Celey D. Keene

Lab Director/Quality Manager



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

**Analytical Results For:**

DIVERSIFIED FIELD SERVICES, INC.  
 MICHAEL ALVES  
 P. O. BOX 5966  
 HOBBS NM, 88241  
 Fax To: (575) 393-2981

Received:	10/25/2017	Sampling Date:	10/23/2017
Reported:	10/31/2017	Sampling Type:	Soil
Project Name:	HUDSON 7	Sampling Condition:	Cool & Intact
Project Number:	SIDEWALLS & BOTTOM SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	XTO - EDDY CO NM		

**Sample ID: SW1 NORTHEAST @4' (H702906-01)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/28/2017	ND	1.72	86.1	2.00	0.774	
Toluene*	<0.050	0.050	10/28/2017	ND	1.72	85.8	2.00	0.184	
Ethylbenzene*	<0.050	0.050	10/28/2017	ND	1.72	86.2	2.00	0.0198	
Total Xylenes*	<0.150	0.150	10/28/2017	ND	5.15	85.8	6.00	0.319	
Total BTEX	<0.300	0.300	10/28/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 72-148

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	10/26/2017	ND	448	112	400	0.00	

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	10/26/2017	ND	157	78.6	200	6.02	
DRO >C10-C28	<10.0	10.0	10/26/2017	ND	171	85.6	200	7.78	
EXT DRO >C28-C36	<10.0	10.0	10/26/2017	ND					

Surrogate: 1-Chlorooctane 76.2 % 28.3-164

Surrogate: 1-Chlorooctadecane 84.7 % 34.7-157

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIVERSIFIED FIELD SERVICES, INC.  
 MICHAEL ALVES  
 P. O. BOX 5966  
 HOBBS NM, 88241  
 Fax To: (575) 393-2981

Received:	10/25/2017	Sampling Date:	10/23/2017
Reported:	10/31/2017	Sampling Type:	Soil
Project Name:	HUDSON 7	Sampling Condition:	Cool & Intact
Project Number:	SIDEWALLS & BOTTOM SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	XTO - EDDY CO NM		

**Sample ID: SW2 EAST @ 2' (H702906-02)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/28/2017	ND	1.72	86.1	2.00	0.774	
Toluene*	<0.050	0.050	10/28/2017	ND	1.72	85.8	2.00	0.184	
Ethylbenzene*	<0.050	0.050	10/28/2017	ND	1.72	86.2	2.00	0.0198	
Total Xylenes*	<0.150	0.150	10/28/2017	ND	5.15	85.8	6.00	0.319	
Total BTEX	<0.300	0.300	10/28/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 72-148

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	10/26/2017	ND	448	112	400	0.00	

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	10/26/2017	ND	157	78.6	200	6.02	
DRO >C10-C28	<10.0	10.0	10/26/2017	ND	171	85.6	200	7.78	
EXT DRO >C28-C36	<10.0	10.0	10/26/2017	ND					

Surrogate: 1-Chlorooctane 80.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 85.6 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIVERSIFIED FIELD SERVICES, INC.  
 MICHAEL ALVES  
 P. O. BOX 5966  
 HOBBS NM, 88241  
 Fax To: (575) 393-2981

Received:	10/25/2017	Sampling Date:	10/23/2017
Reported:	10/31/2017	Sampling Type:	Soil
Project Name:	HUDSON 7	Sampling Condition:	Cool & Intact
Project Number:	SIDEWALLS & BOTTOM SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	XTO - EDDY CO NM		

**Sample ID: SW3 SOUTHEAST @ 1' (H702906-03)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/28/2017	ND	1.72	86.2	2.00	1.82	QR-03
Toluene*	<0.050	0.050	10/28/2017	ND	1.75	87.4	2.00	1.27	QR-03
Ethylbenzene*	<0.050	0.050	10/28/2017	ND	1.71	85.6	2.00	2.10	QR-03
Total Xylenes*	<0.150	0.150	10/28/2017	ND	5.11	85.2	6.00	2.50	QR-03
Total BTEX	<0.300	0.300	10/28/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 72-148

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	10/26/2017	ND	448	112	400	0.00	

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	10/26/2017	ND	200	100	200	1.39	
DRO >C10-C28	<10.0	10.0	10/26/2017	ND	218	109	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	10/26/2017	ND					

Surrogate: 1-Chlorooctane 87.9 % 28.3-164

Surrogate: 1-Chlorooctadecane 87.1 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIVERSIFIED FIELD SERVICES, INC.  
 MICHAEL ALVES  
 P. O. BOX 5966  
 HOBBS NM, 88241  
 Fax To: (575) 393-2981

Received:	10/25/2017	Sampling Date:	10/23/2017
Reported:	10/31/2017	Sampling Type:	Soil
Project Name:	HUDSON 7	Sampling Condition:	Cool & Intact
Project Number:	SIDEWALLS & BOTTOM SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	XTO - EDDY CO NM		

**Sample ID: SW4 SOUTH @ 2' (H702906-04)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/28/2017	ND	1.72	86.2	2.00	1.82	
Toluene*	<0.050	0.050	10/28/2017	ND	1.75	87.4	2.00	1.27	
Ethylbenzene*	<0.050	0.050	10/28/2017	ND	1.71	85.6	2.00	2.10	
Total Xylenes*	<0.150	0.150	10/28/2017	ND	5.11	85.2	6.00	2.50	
Total BTEX	<0.300	0.300	10/28/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

Chloride, SM4500CI-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	10/26/2017	ND	448	112	400	0.00	

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	10/26/2017	ND	200	100	200	1.39	
DRO >C10-C28	<10.0	10.0	10/26/2017	ND	218	109	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	10/26/2017	ND					

Surrogate: 1-Chlorooctane 89.4 % 28.3-164

Surrogate: 1-Chlorooctadecane 88.4 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIVERSIFIED FIELD SERVICES, INC.  
 MICHAEL ALVES  
 P. O. BOX 5966  
 HOBBS NM, 88241  
 Fax To: (575) 393-2981

Received:	10/25/2017	Sampling Date:	10/23/2017
Reported:	10/31/2017	Sampling Type:	Soil
Project Name:	HUDSON 7	Sampling Condition:	Cool & Intact
Project Number:	SIDEWALLS & BOTTOM SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	XTO - EDDY CO NM		

**Sample ID: SW5 SOUTHWEST @ 6' (H702906-05)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/28/2017	ND	1.72	86.2	2.00	1.82		
Toluene*	<0.050	0.050	10/28/2017	ND	1.75	87.4	2.00	1.27		
Ethylbenzene*	<0.050	0.050	10/28/2017	ND	1.71	85.6	2.00	2.10		
Total Xylenes*	<0.150	0.150	10/28/2017	ND	5.11	85.2	6.00	2.50		
Total BTEX	<0.300	0.300	10/28/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 96.5 % 72-148

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	10/26/2017	ND	448	112	400	0.00		

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	10/26/2017	ND	200	100	200	1.39		
DRO >C10-C28	<10.0	10.0	10/26/2017	ND	218	109	200	1.62		
EXT DRO >C28-C36	<10.0	10.0	10/26/2017	ND						

Surrogate: 1-Chlorooctane 99.7 % 28.3-164

Surrogate: 1-Chlorooctadecane 101 % 34.7-157

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\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIVERSIFIED FIELD SERVICES, INC.  
 MICHAEL ALVES  
 P. O. BOX 5966  
 HOBBS NM, 88241  
 Fax To: (575) 393-2981

Received:	10/25/2017	Sampling Date:	10/23/2017
Reported:	10/31/2017	Sampling Type:	Soil
Project Name:	HUDSON 7	Sampling Condition:	Cool & Intact
Project Number:	SIDEWALLS & BOTTOM SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	XTO - EDDY CO NM		

**Sample ID: SW6 WEST @ 3' (H702906-06)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/28/2017	ND	1.72	86.2	2.00	1.82	
Toluene*	<0.050	0.050	10/28/2017	ND	1.75	87.4	2.00	1.27	
Ethylbenzene*	<0.050	0.050	10/28/2017	ND	1.71	85.6	2.00	2.10	
Total Xylenes*	<0.150	0.150	10/28/2017	ND	5.11	85.2	6.00	2.50	
Total BTEX	<0.300	0.300	10/28/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 72-148

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	10/26/2017	ND	448	112	400	0.00	

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	10/26/2017	ND	200	100	200	1.39	
DRO >C10-C28	<10.0	10.0	10/26/2017	ND	218	109	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	10/26/2017	ND					

Surrogate: 1-Chlorooctane 99.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 98.0 % 34.7-157

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIVERSIFIED FIELD SERVICES, INC.  
 MICHAEL ALVES  
 P. O. BOX 5966  
 HOBBS NM, 88241  
 Fax To: (575) 393-2981

Received:	10/25/2017	Sampling Date:	10/23/2017
Reported:	10/31/2017	Sampling Type:	Soil
Project Name:	HUDSON 7	Sampling Condition:	Cool & Intact
Project Number:	SIDEWALLS & BOTTOM SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	XTO - EDDY CO NM		

**Sample ID: SW7 NORTHWEST @ 2' (H702906-07)**

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	10/28/2017	ND	1.72	86.2	2.00	1.82		
Toluene*	<0.050	0.050	10/28/2017	ND	1.75	87.4	2.00	1.27		
Ethylbenzene*	<0.050	0.050	10/28/2017	ND	1.71	85.6	2.00	2.10		
Total Xylenes*	<0.150	0.150	10/28/2017	ND	5.11	85.2	6.00	2.50		
Total BTEX	<0.300	0.300	10/28/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 72-148

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	10/26/2017	ND	448	112	400	0.00		

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	10/26/2017	ND	200	100	200	1.39		
DRO >C10-C28	<10.0	10.0	10/26/2017	ND	218	109	200	1.62		
EXT DRO >C28-C36	<10.0	10.0	10/26/2017	ND						

Surrogate: 1-Chlorooctane 94.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 92.8 % 34.7-157

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

**Analytical Results For:**

DIVERSIFIED FIELD SERVICES, INC.  
 MICHAEL ALVES  
 P. O. BOX 5966  
 HOBBS NM, 88241  
 Fax To: (575) 393-2981

Received:	10/25/2017	Sampling Date:	10/23/2017
Reported:	10/31/2017	Sampling Type:	Soil
Project Name:	HUDSON 7	Sampling Condition:	Cool & Intact
Project Number:	SIDEWALLS & BOTTOM SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	XTO - EDDY CO NM		

**Sample ID: SW8 NORTH @ 7' (H702906-08)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/28/2017	ND	1.72	86.2	2.00	1.82	
Toluene*	<0.050	0.050	10/28/2017	ND	1.75	87.4	2.00	1.27	
Ethylbenzene*	<0.050	0.050	10/28/2017	ND	1.71	85.6	2.00	2.10	
Total Xylenes*	<0.150	0.150	10/28/2017	ND	5.11	85.2	6.00	2.50	
Total BTEX	<0.300	0.300	10/28/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 72-148

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	10/26/2017	ND	448	112	400	0.00	

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	10/26/2017	ND	200	100	200	1.39	
DRO >C10-C28	<10.0	10.0	10/26/2017	ND	218	109	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	10/26/2017	ND					

Surrogate: 1-Chlorooctane 85.8 % 28.3-164

Surrogate: 1-Chlorooctadecane 81.8 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIVERSIFIED FIELD SERVICES, INC.  
 MICHAEL ALVES  
 P. O. BOX 5966  
 HOBBS NM, 88241  
 Fax To: (575) 393-2981

Received:	10/25/2017	Sampling Date:	10/23/2017
Reported:	10/31/2017	Sampling Type:	Soil
Project Name:	HUDSON 7	Sampling Condition:	Cool & Intact
Project Number:	SIDEWALLS & BOTTOM SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	XTO - EDDY CO NM		

**Sample ID: BS #1 (H702906-09)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/28/2017	ND	1.72	86.2	2.00	1.82	
Toluene*	<0.050	0.050	10/28/2017	ND	1.75	87.4	2.00	1.27	
Ethylbenzene*	<0.050	0.050	10/28/2017	ND	1.71	85.6	2.00	2.10	
Total Xylenes*	<0.150	0.150	10/28/2017	ND	5.11	85.2	6.00	2.50	
Total BTEX	<0.300	0.300	10/28/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	10/26/2017	ND	448	112	400	0.00	

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	10/26/2017	ND	200	100	200	1.39	
DRO >C10-C28	<10.0	10.0	10/26/2017	ND	218	109	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	10/26/2017	ND					

Surrogate: 1-Chlorooctane 92.1 % 28.3-164

Surrogate: 1-Chlorooctadecane 94.8 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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**Analytical Results For:**

DIVERSIFIED FIELD SERVICES, INC.  
 MICHAEL ALVES  
 P. O. BOX 5966  
 HOBBS NM, 88241  
 Fax To: (575) 393-2981

Received:	10/25/2017	Sampling Date:	10/23/2017
Reported:	10/31/2017	Sampling Type:	Soil
Project Name:	HUDSON 7	Sampling Condition:	Cool & Intact
Project Number:	SIDEWALLS & BOTTOM SAMPLES	Sample Received By:	Tamara Oldaker
Project Location:	XTO - EDDY CO NM		

**Sample ID: BS #2 (H702906-10)**

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/28/2017	ND	1.72	86.2	2.00	1.82	
Toluene*	<0.050	0.050	10/28/2017	ND	1.75	87.4	2.00	1.27	
Ethylbenzene*	<0.050	0.050	10/28/2017	ND	1.71	85.6	2.00	2.10	
Total Xylenes*	<0.150	0.150	10/28/2017	ND	5.11	85.2	6.00	2.50	
Total BTEX	<0.300	0.300	10/28/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.6 % 72-148

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1580	16.0	10/26/2017	ND	448	112	400	0.00	

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	10/26/2017	ND	200	100	200	1.39	
DRO >C10-C28	<10.0	10.0	10/26/2017	ND	218	109	200	1.62	
EXT DRO >C28-C36	<10.0	10.0	10/26/2017	ND					

Surrogate: 1-Chlorooctane 90.0 % 28.3-164

Surrogate: 1-Chlorooctadecane 87.5 % 34.7-157

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Celey D. Keene, Lab Director/Quality Manager



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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 LCS/D 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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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

BILL TO

ANALYSIS REQUEST

Company Name: **XTO Energy (Diversified)**  
Project Manager: **Amy Ruth**

P.O. #: **XTO Energy**

City: State: Zip:

Phone #: Fax #: Project Owner:

Project #: Project Owner:

Project Name: **Suburbs + Bottom samples**

Project Location: **Hudson #007**

Sampler Name: **Mr. Alveda**

Attn: **Amy Ruth**

City: State: Zip:

Address: Phone #: Fax #:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

Lab I.D.	Sample I.D.	FOR LAB USE ONLY		DATE	TIME	CL	TPI	EXT	ESTD
		(G)RAB OR (C)OMP.	# CONTAINERS						
H7D2966	SW1 Northeast @ 4'		1	10/23/17	9:00am	X	X	X	X
	SW2 East @ 2'		1	10/23/17	9:15am	X	X	X	X
	SW3 Southeast @ 1'		1	10/23/17	9:30am	X	X	X	X
	SW4 South @ 2'		1	10/23/17	9:45am	X	X	X	X
	SW5 Southeast @ 6'		1	10/23/17	10:00am	X	X	X	X
	SW6 West @ 3'		1	10/23/17	10:15am	X	X	X	X
	SW7 Northwest @ 2'		1	10/23/17	10:30am	X	X	X	X
	SW8 North @ 7'		1	10/23/17	10:45am	X	X	X	X
	BS #1		1	10/23/17	11:00am	X	X	X	X
	BS #2		1	10/23/17	11:15am	X	X	X	X

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Relinquished By:

Date: 10/24/17

Time: 8:00

Delivered By: (Circle One) 1.0

Sampler - UPS - Bus - Other: **Accepted 1.25**

Received By: **Jamara**

Received By: **Jamara**

Date: 10-23-17

Time: 8:00

Checked By: **70-775**

Phone Result:  Yes  No  
Fax Result:  Yes  No  
Add'l Phone #:   
Add'l Fax #:   
E-mail Results To:   
~~diversified@diversified.com~~  
~~diversified@diversified.com~~  
~~diversified@diversified.com~~  
Malveda@diversified.com

\* Cardinal cannot accept verbal change. Please fax written change to (575) 393-2476

# Appendix IV

## SITE PHOTOS

---

Diversified Field Service, Inc.  
206 W. Snyder  
Hobbs, NM 88240  
(575) 964-8394

# HUDSON 1 FEDERAL WELL #007

## PHOTO PAGE



Site Prior



Site Prior



Site Prior



Site Prior



Began excavating process.



Excavating



Excavating to a depth of 4' bgs.



Stockpile contaminated soil.



Load and export contaminated soil.



Stockpile contaminated material on liner.



Continue Excavating





Install T-Post to hold lines.



Imported top soil.



Continue exporting contaminated soil.



Stockpile top soil.



Continue installing T Post and excavating under lines.





Excavating under lines.



Exporting contaminated soil.



Completed excavating release area.



Began installing and backfilling 20 ml liner in sections.



Began installing and backfilling 20 ml liner in sections.



Backfilling excavated area.



Continue backfilling.



Continue importing topsoil for backfill process.



Completed site.



Completed site.



Site completed.

# Appendix V

FINAL C-141

---

Diversified Field Service, Inc.  
206 W. Snyder  
Hobbs, NM 88240  
(575) 964-8394

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
811 S. First St., Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. 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 August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

### Release Notification and Corrective Action

#### OPERATOR

Initial Report  Final Report

Name of Company: XTO Energy		Contact: Amy Ruth	
Address: 522 W. Mermod, Suite 704 Carlsbad, N.M. 88220		Telephone No. 575-887-7329	
Facility Name: Hudson Federal Well #007		Facility Type: Exploration and Production	
Surface Owner: Federal	Mineral Owner: Federal	API No. 30-015-31513	

#### LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from	East/West Line	County
F	1	23S	30E	1500	North	1800	West	Eddy

Latitude: 32.337062 Longitude: -103.837058

#### NATURE OF RELEASE

Type of Release: Crude Oil and Produced Water	Volume of Release: 2 bbls oil and 8 bbls PW	Volume Recovered: 0 bbls oil and 2 bbls PW
Source of Release: Poly flow line	Date and Hour of Occurrence 10/6/2016 Time unknown	Date and Hour of Discovery 10/6/2016 approx. 10 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? N/A	
By Whom?	Date and Hour: N/A	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	
If a Watercourse was Impacted, Describe Fully.* N/A		
Describe Cause of Problem and Remedial Action Taken.* Poly flow line from well ruptured in area of pasture. Pumping unit was shut down and valves were closed for repairs.		
Describe Area Affected and Cleanup Action Taken.  Beginning September 29, 2017, the release area was excavated to a depth of 4' bgs with excavated soil being properly disposed of at an approved NMOCD facility. Eight side wall samples were obtained and taken to Cardinal Laboratory to confirm all contaminants within the release area were removed. At the base of the excavation, a 20-mil, reinforced poly liner was installed and properly seated. Excavation was backfilled with clean, imported top soil to ground surface and contoured to the surrounding area. Due to season and limitation of growth, seeding will commence during the first few weeks of spring.		
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD 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 NMOCD 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, NMOCD 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.		
Signature:		<b>OIL CONSERVATION DIVISION</b>
Printed Name: Amy C. Ruth		Approved by Environmental Specialist: <i>Buttany Hall</i>
Title:	Approval Date: 2/28/2023	Expiration Date: N/A
E-mail Address:	Conditions of Approval:	
Date: Phone:	None	Attached <input type="checkbox"/>

\* Attach Additional Sheets If Necessary

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

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

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

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

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

CONDITIONS

Action 191336

**CONDITIONS**

Operator: XTO PERMIAN OPERATING LLC. 6401 HOLIDAY HILL ROAD MIDLAND, TX 79707	OGRID: 373075
	Action Number: 191336
	Action Type: [IM-SD] Incident File Support Doc (ENV) (IM-BNF)

**CONDITIONS**

Created By	Condition	Condition Date
bhall	None	2/28/2023