

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

HOBBS OCD

JUL 14 2011

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Form C-141  
Revised October 10, 2003

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

**Release Notification and Corrective Action**

**OPERATOR**

☐ Initial Report ☒ Final Report

Name of Company	Fasken Oil and Ranch, Ltd.	Contact	Jimmy Carlile
Address	303 W. Wall St., 1800, Midland, TX 79701	Telephone No.	432-687-1777
Facility Name	Denton SWD #1	Facility Type	Saltwater Disposal line

Surface Owner	Darr Angell	Mineral Owner		Lease No.	
---------------	-------------	---------------	--	-----------	--

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	11	15S	37E					Lea

Latitude \_\_\_\_\_ Longitude \_\_\_\_\_

**NATURE OF RELEASE**

Type of Release	Produced Water	Volume of Release	10000 bbls	Volume Recovered	0 bbls
Source of Release	Waterline	Date and Hour of Occurrence	7/25/04 8:00 am	Date and Hour of Discovery	7/25/04 11:00am
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Darr Angell & Gary Wink		
By Whom?		Date and Hour			
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.\*

N/A


Describe Cause of Problem and Remedial Action Taken.\*

10" red thread fiberglass pipe split halfway through. Shut down line, excavated with backhoe and replaced section of pipe.

Describe Area Affected and Cleanup Action Taken.\*

Excavated the impacted area to a depth of 3', disposed of contaminated soil to Sundance Parabo disposal, installed a 20 mil liner, backfilled area with new material from Angell Ranch Pit, contoured to match surrounding terrain and the area will be seeded with an approved seed mixture.

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: Jimmy D. Carlile	Approved by District Supervisor:		
Title: Regulatory Affairs Coordinator	Approval Date:	Expiration Date:	
E-mail Address: jimmyc@forl.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 6/23/11	Phone: 432-687-1777		

\* Attach Additional Sheets If Necessary



June 23, 2011

Mr. Geoffrey Leking  
NMOCD District 1  
1625 N. French Dr.  
Hobbs, NM 88240

HOBBS OCD  
JUL 14 2011  
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AMARILLO  
921 North Bivins  
Amarillo, Texas 79107  
Phone 806.467.0607  
Fax 806.467.0622

ARTESIA  
408 West Texas Ave.  
Artesia, New Mexico 88210  
Phone 575.746.8768  
Fax 575.746.8905

AUSTIN  
911 West Anderson Lane  
Suite 202  
Austin, Texas 78757  
Phone 512.989.3428  
Fax 512.989.3487

HOBBS  
318 East Taylor Street  
Hobbs, New Mexico 88240  
Phone 575.393.4261  
Fax 575.393.4658

MIDLAND  
2901 State Hwy 349  
Midland, Texas 79706  
Phone 432.522.2133  
Fax 432.522.2180

SAN ANTONIO  
11 Commercial Place  
Schertz, Texas 78154  
Phone 210.265.8025  
Fax 210.568.2191

TULSA  
525 South Main Street  
Suite 535  
Tulsa, Oklahoma 74103  
Phone 918.742.0871  
Fax 918.382.0232

Subject: **Remediation and Closure Report**  
Fasken Oil Ranch, Ltd.  
Denton Mainline Release

Dear Mr. Leking,

Fasken Oil and Ranch, Ltd. has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced Denton Mainline release. The incident description, soil sampling results, remediation activities and closure request are submitted herein.

#### **Incident Date**

July 25, 2004

#### **Background Information**

The Denton Mainline Release is located approximately eleven (30) miles north of Hobbs, New Mexico. The legal location for the site is Section 11, Township 15 South and Range 37 East in Lea County, New Mexico. More Specifically the latitude and longitude for the release are 33.014378 North and -103.100349 West.

This site lies on undulating plains and low hills consisting of wind worked sandy deposits. Drainage courses in this area are normally dry. The local surface and shallow geology includes silty soils underlain by sand stone and caliche layers. The New Mexico State Engineer's web site indicates the nearest ground water data to be in S11-T15S-R37E. The ground water in Section 11 is reported to be at a depth of 50' below ground surface (bgs).

The ranking for this site is 10 based on the as following:

Depth to ground water	50'-100'
Wellhead Protection Area	>1000'
Distance to surface water body	>1000'

ENVIRONMENTAL CONSULTING  
ENGINEERING  
DRILLING  
CONSTRUCTION  
SPILL MANAGEMENT  
GENERAL CONTRACTING

Toll Free: 866.742.0742  
[www.talonlpe.com](http://www.talonlpe.com)

## **Incident Description**

On July 25, 2004 the Denton SWD Mainline, which is a 10" red thread fiberglass pipe, breached and released approximately 10,000 barrels (bbls) of produced water. The line was shut down and excavated for repairs. The damaged section of the line was subsequently removed and replaced.

## **Actions Taken**

On March 31, 2011 Talon personnel mobilized to the site to begin excavation. The impacted soil within the flow path of the release was removed to an average depth of 2 to 3-feet deep. A total of 11,820 cubic yards of impacted soil was excavated and transported to an NMOCD approved solid waste disposal facility for disposal, Sundance Parabo. The excavated area was left open until approval for installing the 20 mil protective liner was obtained from NMOCD.

Multiple sampling and field testing events for chlorides using field titration methods were conducted during the excavation process. The excavation was expanded and then re-sampled several times based on the field testing results.

On April 20, 2011 Talon personnel mobilized to the site to begin closure soil sampling activities on the sidewalls of the excavation per NMOCD requirements. Grab soil samples were collected utilizing a hand auger and submitted for laboratory analysis.

Following additional excavation activities Talon personnel again took confirmation samples from the excavated areas on April 28, 2011. Grab soil samples were collected and delivered to the lab on the same day.

All soil samples were collected by Talon personnel wearing clean nitrile gloves. The samples were placed in laboratory provided glassware, and transported to Cardinal Laboratories in Hobbs, New Mexico for analysis. The samples were tested for Total Chlorides via Method SM4500Cl-B

## **Analytical Results**

Analytical results detailed on the attached laboratory reports dated April 26, 2011 and are summarized below.

April 26, 2011 lab report:

<u>Sample</u>	<u>Chlorides</u>	<u>Sample</u>	<u>Chloride</u>	<u>Sample</u>	<u>Chlorides</u>
N-1*	112 mg/kg	S-1**	144 mg/kg	W-6	6400 mg/kg
N-2	2960	S-2	704	W-7	336
N-3	32	S-3	1660	W-8	96
N-4	16	S-4	2840	W-9	32
E-1	32	S-5	3200	W-10	32
E-2	880	S-6	800	W-11	<16
E-3	224	S-7	336	W-12	288
E-4	64	W-1	<16	W-13	768
E-5	144	W-2	3960	W-14	96
E-6	48	W-3	11000		
E-7	48	W-4	2520		
E-8	1490	W-5	1180		

\*North sidewall samples

\*\*South sidewall samples, etc.

April 28, 2011 lab reports:

<u>Sample</u>	<u>Chlorides</u>
N-2	80 mg/kg
E-8	80

### Closure

Upon acceptance of laboratory results and NMOCD approved Talon personnel returned to the site to begin installing the 20 millimeter liner into the excavated area. The edges of the liner were keyed a minimum of three 3-feet deep into a trench excavated at the boundaries of the impacted area. Additional liner material was used to drape the west sidewall and cover the flow line.

The excavated area was then backfilled to grade using new material transported from the Angell Ranch pit and placed over the top of the 20 millimeter liner. A total of 14,016 cubic feet of soil was placed on top of the liner in a 3-foot soil lift. The soil lift was contoured to match the surrounding terrain and will be seeded using the recommended seed mixture for the area.

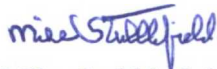
### **Conclusions and Recommendations**

- Ground water in the project vicinity is 50-feet below land surface per the New Mexico State Engineer Database.
- Based on the depth to groundwater and the installation of a 20 mil liner, it is unlikely that the impacts identified from this release will pose a threat to groundwater.
- The results of the sampling and analytical program were approved by the NMOCD prior to completion of field activities.
- Therefore, on behalf of Fasken Oil and Ranch, Ltd., we respectfully request that no further actions be required and that closure with respect to this release closure be granted.

Should you have any questions or if further information is required, please do not hesitate to contact us at 575.746.8768.

Respectfully submitted,

TALON/LPE



Mike Stubblefield  
Project Manager



David J. Adkins  
District Manager

**APPENDIX I**  
**GROUNDWATER DATA**



# 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) (In feet)

POD Number	Sub basin	Use	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
L 01117	PRO	LE		3	4	2	11	15S	37E	671314	3656419*	120	50	70
L 01117 APPRO	PRO	LE		3	4	2	11	15S	37E	671314	3656419*	120	50	70
L 01182 APPRO	DOM	LE		1	1	1	11	15S	37E	670096	3657007*	110	35	75
L 01283 APPRO	PRO	LE		3	2	11	15S	37E	671012	3656515*	120	40	80	
L 01321 APPRO	PRO	LE		4	2	11	15S	37E	671415	3656520*	120	32	88	
L 01322 APPRO	PRO	LE		2	1	1	11	15S	37E	670296	3657007*	120		
L 01323 APPRO	PRO	LE		4	2	11	15S	37E	671415	3656520*	120	32	88	
L 01324 APPRO	PRO	LE		1	2	11	15S	37E	671004	3656917*	120	32	88	
L 01430 APPRO	PRO	LE		2	1	11	15S	37E	670601	3656913*	120	33	87	
L 02317	PRO	LE		1	1	11	15S	37E	670197	3656908*	110	65	45	
L 02317 APPRO	PRO	LE		1	1	11	15S	37E	670197	3656908*	110	65	45	
L 02391 APPRO	STK	LE		3	3	3	11	15S	37E	670118	3655599*	80	37	43
L 07610	PRO	LE		3	2	11	15S	37E	671012	3656515*	100			
L 07665	PRO	LE		4	4	4	11	15S	37E	671529	3655614*	136	40	96

Average Depth to Water: 42 feet

Minimum Depth: 32 feet

Maximum Depth: 65 feet

Record Count: 14

PLSS Search:

Section(s): 11

Township: 15S

Range: 37E

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\*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.

6/23/11 10:08 AM

Page 1 of 1

WATER COLUMN/ AVERAGE  
DEPTH TO WATER

**APPENDIX II**  
**LABORATORY RESULTS**



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

April 26, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

**HOBBS OCD**

**JUL 14 2011**

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RE: DENTON MAINLINE

Enclosed are the results of analyses for samples received by the laboratory on 04/21/11 12:45.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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 cursive script that reads "Celey D. Keene".

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
MIKE STUBBLEFIELD  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 04/21/2011  
Reported: 04/26/2011  
Project Name: DENTON MAINLINE  
Project Number: 701014.024.01  
Project Location: DENTON MAINLINE

Sampling Date: 04/20/2011  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: N - 1 (H100823-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	112	16.0	04/26/2011	ND	416	104	400	3.77		

**Sample ID: N - 2 (H100823-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	04/26/2011	ND	416	104	400	3.77	

**Sample ID: N - 3 (H100823-03)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/26/2011	ND	416	104	400	3.77	

**Sample ID: N - 4 (H100823-04)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	16.0	16.0	04/26/2011	ND	416	104	400	3.77		

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TALON LPE  
 MIKE STUBBLEFIELD  
 408 W. TEXAS AVE.  
 ARTESIA NM, 88210  
 Fax To: (575) 745-8905

 Received: 04/21/2011  
 Reported: 04/26/2011  
 Project Name: DENTON MAINLINE  
 Project Number: 701014.024.01  
 Project Location: DENTON MAINLINE

 Sampling Date: 04/20/2011  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: E - 1 (H100823-05)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	04/26/2011	ND	416	104	400	3.77	

**Sample ID: E - 2 (H100823-06)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	880	16.0	04/26/2011	ND	416	104	400	3.77	

**Sample ID: E - 3 (H100823-07)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	04/26/2011	ND	432	108	400	0.00	

**Sample ID: E - 4 (H100823-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	04/26/2011	ND	432	108	400	0.00	

**Sample ID: E - 5 (H100823-09)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/26/2011	ND	432	108	400	0.00	

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
MIKE STUBBLEFIELD  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 04/21/2011  
Reported: 04/26/2011  
Project Name: DENTON MAINLINE  
Project Number: 701014.024.01  
Project Location: DENTON MAINLINE

Sampling Date: 04/20/2011  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: E - 6 (H100823-10)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/26/2011	ND	432	108	400	0.00	

**Sample ID: E - 7 (H100823-11)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	04/26/2011	ND	432	108	400	0.00	

**Sample ID: E - 8 (H100823-12)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	04/26/2011	ND	432	108	400	0.00	

**Sample ID: S - 1 (H100823-13)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	04/26/2011	ND	432	108	400	0.00	


**Sample ID: S - 2 (H100823-14)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	704	16.0	04/26/2011	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

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 Fax To: (575) 745-8905

 Received: 04/21/2011  
 Reported: 04/26/2011  
 Project Name: DENTON MAINLINE  
 Project Number: 701014.024.01  
 Project Location: DENTON MAINLINE

 Sampling Date: 04/20/2011  
 Sampling Type: Soil  
 Sampling Condition: \*\* (See Notes)  
 Sample Received By: Jodi Henson

**Sample ID: S - 3 (H100823-15)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1660	16.0	04/26/2011	ND	432	108	400	0.00		

**Sample ID: S - 4 (H100823-16)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2840	16.0	04/26/2011	ND	432	108	400	0.00		

**Sample ID: S - 5 (H100823-17)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3200	16.0	04/26/2011	ND	432	108	400	0.00		

**Sample ID: S - 6 (H100823-18)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	04/26/2011	ND	432	108	400	0.00	

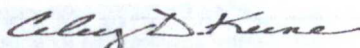
**Sample ID: S - 7 (H100823-19)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	04/26/2011	ND	432	108	400	0.00		

Cardinal Laboratories

\* = Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
MIKE STUBBLEFIELD  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 04/21/2011  
Reported: 04/26/2011  
Project Name: DENTON MAINLINE  
Project Number: 701014.024.01  
Project Location: DENTON MAINLINE

Sampling Date: 04/20/2011  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: W - 1 (H100823-20)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	04/26/2011	ND	432	108	400	0.00		

**Sample ID: W - 2 (H100823-21)**

Chloride, SM4500Cl-B			mg/kg Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3960	16.0	04/26/2011	ND	432	108	400	0.00		

**Sample ID: W - 3 (H100823-22)**

Chloride, SM4500Cl-B			mg/kg Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	11000	16.0	04/26/2011	ND	432	108	400	0.00		

**Sample ID: W - 4 (H100823-23)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2520	16.0	04/26/2011	ND	432	108	400	0.00		

**Sample ID: W - 5 (H100823-24)**

Chloride, SM4500Cl-B			mg/kg Analyzed By: HM							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1180	16.0	04/26/2011	ND	432	108	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
MIKE STUBBLEFIELD  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 04/21/2011  
Reported: 04/26/2011  
Project Name: DENTON MAINLINE  
Project Number: 701014.024.01  
Project Location: DENTON MAINLINE

Sampling Date: 04/20/2011  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: W - 6 (H100823-25)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6400	16.0	04/26/2011	ND	432	108	400	0.00		

**Sample ID: W - 7 (H100823-26)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	336	16.0	04/26/2011	ND	432	108	400	0.00		

**Sample ID: W - 8 (H100823-27)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	96.0	16.0	04/26/2011	ND	432	108	400	0.00		

**Sample ID: W - 9 (H100823-28)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/26/2011	ND	432	108	400	0.00		

**Sample ID: W - 10 (H100823-29)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	04/26/2011	ND	432	108	400	0.00		

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
MIKE STUBBLEFIELD  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 04/21/2011  
Reported: 04/26/2011  
Project Name: DENTON MAINLINE  
Project Number: 701014.024.01  
Project Location: DENTON MAINLINE

Sampling Date: 04/20/2011  
Sampling Type: Soil  
Sampling Condition: \*\* (See Notes)  
Sample Received By: Jodi Henson

**Sample ID: W - 11 (H100823-30)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	04/26/2011	ND	432	108	400	0.00	

**Sample ID: W - 12 (H100823-31)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	288	16.0	04/26/2011	ND	432	108	400	0.00		

**Sample ID: W - 13 (H100823-32)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	768	16.0	04/26/2011	ND	432	108	400	0.00	

**Sample ID: W - 14 (H100823-33)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	04/26/2011	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

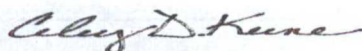
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

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Celey D. Keene, Lab Director/Quality Manager

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

4.1

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For East Marland, Hobbs, NH 88240  
(676) 383-2326 FAX (676) 393-2476

BILL TO						ANALYSIS REQUEST								
Company Name: Talon/LPE Project Manager: Mike Stubblefield Address: 408 W. Teraf Ave. City: Artesia State: NM Zip: 88210 Phone #: 505-441-7254 Fax #: 505-246-9805 Project #: 201014.024.01 Project Owner: Fasken Oil & Ranch Project Name: Denton Mainline Project Location: Sampler Name: mic Sweeperd						P.O. # Company: Talon/LPE Addr: Address: City: State: Zip: Phone #: Fax #:								
Lab I.D.	Sample I.D.	(C)RAB OR (C)OIMP	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	SUDGE	OTHER:	ACID/BASE	ICE / COOL	PRESERV	SAMPLING DATE	TIME	Total Chlorides
H10082311 E-7		C				✓				✓		4/20/2011	10:27 A	✓
12 E-8		C				✓				✓		4/20/2011	10:28 A	✓
13 S-1		C				✓				✓		4/20/2011	10:30 A	✓
14 S-2		C				✓				✓		4/20/2011	10:33 A	✓
15 S-3		C				✓				✓		4/20/2011	10:36 A	✓
16 S-4		C				✓				✓		4/20/2011	10:39 A	✓
17 S-5		C				✓				✓		4/20/2011	10:40 A	✓
18 S-6		C				✓				✓		4/20/2011	10:42 A	✓
19 S-7		C				✓				✓		4/20/2011	10:45 A	✓
20 W-1		C				✓				✓		4/20/2011	10:52 A	✓

**PLEASE NOTE:** Usability and Demographics. StudyLink's usability and client's experience remedy for any down-aging was NOT located in contact or call, still as limited to the product paid by the client for the

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U.S. DEPARTMENT OF JUSTICE  
FEDERAL BUREAU OF INVESTIGATION  
WASHINGTON, D. C. 20535

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Delivered By: (Circle One)

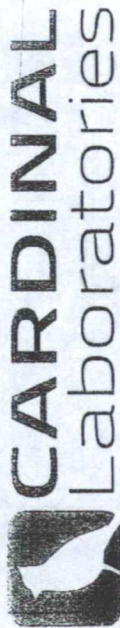
Sample Use - Other

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C.O.

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9



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

3-4

Company Name: <u>Talon LPE</u>		P.O. #:		BILL TO		ANALYSIS REQUEST											
Project Manager: <u>Mike Stiefel</u>		Company: <u>Talon LPE</u>		Attn:		Address:		City:		State:		Zip:		Phone #:		Fax #:	
City: <u>Artesia</u>		State: <u>NM</u>		Zip: <u>88210</u>		Phone #:		Fax #:		Project #:		Project Owner: <u>Fishers Oil &amp; Gas</u>		Project Name: <u>Golden Main Line</u>		Project Location:	
Sampler Name: <u>Mike Stiefel</u>		Matrix:		PRESERV.		SAMPLING		DATE		TIME		OTHER:		ACID/BASE:		ICE / COOL:	
Lab I.D.		Sample I.D.		# CONTAINERS		(G) RAB OR (C) OMP		GROUNDWATER		WASTEWATER		SOIL		SLUDGE		OTHER:	
<u>H100823-21</u>	<u>W-2</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>
<u>22</u>	<u>W-3</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>
<u>23</u>	<u>W-4</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>
<u>24</u>	<u>W-5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>
<u>25</u>	<u>W-6</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>
<u>26</u>	<u>W-7</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>
<u>27</u>	<u>W-8</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>
<u>28</u>	<u>W-9</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>
<u>29</u>	<u>W-10</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>
<u>30</u>	<u>W-11</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>

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Relinquished By: <u>Mike Stiefel</u>	Date: <u>4/21/2011</u>	Received By: <u>Debbie Hanson</u>	Date: <u>4/21/2011</u>	Time: <u>12:41 PM</u>	Time: <u>12:41 PM</u>
Relinquished By:	Date:	Received By:	Date:	Time:	Time:
Delivered By: (Circle One)	Sample Condition	Checked By: (Initials)	Relinquished By:	Date:	Time:
Sampler - UPS - Bus - Other:	Cool <input checked="" type="checkbox"/> Intact <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>
Phone Result: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Phone Result: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Phone Result: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Phone Result: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Phone Result: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>	Phone Result: <input checked="" type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input checked="" type="checkbox"/>
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REMARKS:					

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47-17

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

April 28, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: DENTON MAINLINE

**HOBBS OCD**

**JUL 14 2011**

**RECEIVED**

Enclosed are the results of analyses for samples received by the laboratory on 04/28/11 12:48.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260	Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005	Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

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 (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 fluid and cursive, with the first name "Celey" being more prominent.

Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

TALON LPE  
MIKE STUBBLEFIELD  
408 W. TEXAS AVE.  
ARTESIA NM, 88210  
Fax To: (575) 745-8905

Received: 04/28/2011  
Reported: 04/28/2011  
Project Name: DENTON MAINLINE  
Project Number: 701014.024.01  
Project Location: DENTON MAINLINE

Sampling Date: 04/28/2011  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: N - 2 (H100880-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/28/2011	ND	432	108	400	0.00	

**Sample ID: E - 8 (H100880-02)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/28/2011	ND	432	108	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

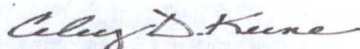
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C Samples reported on an as received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

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Celey D. Keene, Lab Director/Quality Manager

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101 East Marland, Hobbs, NM 88240  
(505) 393-2326 FAX (505) 393-2476

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**APPENDIX III**

**FINIAL C-141**