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.

JUL 1 4 2011

HOBBS OCD

Form C-141 Revised October 10, 2003

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

### Santa Fe, NM 87505 RECEIVED Release Notification and Corrective Action

						OPERA'	ГOR		Initi	al Report     Final Repor	
Name of C	ompany F	Fasken Oil ar	nd Ranch	, Ltd.	1	Contact	Jimmy Ca	rlile		1 PP 5 7 DX W 5 S D	
		1 St., 1800, N	/lidland,	TX 79701		Telephone 1	No. 432-687-1	1777			
Facility Na	me Dento	n SWD #1				Facility Typ	e Saltwater	Dispos	al line		
Surface Ov	vner Darr	Angell		Mineral (	Owner		270		Lease 1	No.	
				LOCA	ATIO	OF RE	LEASE				
Unit Letter J	Section 11	Township 15S	Range 37E	Feet from the		South Line	Feet from the	East/V	Vest Line	County Lea	
			Lat	itude		_ Longitud	le				
				NAT	TURE	OF REL	EASE				
Type of Rele	ease Produc	ced Water					Release 10000 b	obls	Volume I	Recovered 0 bbls	
Source of Re	elease Wate	erline				Date and F 7/25/04 8:	Iour of Occurrence 00 am	ce	Date and 11:00am	Hour of Discovery 7/25/04	
Was Immediate Notice Given?  ☐ Yes ☐ No ☐ Not Required						If YES, To Darr Ange	Whom? Il & Gary Wink				
By Whom?							Iour				
Was a Water	Was a Watercourse Reached?  ☐ Yes ☐ No					If YES, Vo	olume Impacting	the Wate	ercourse.		
If a Waterco	urse was Im	pacted, Descr	ibe Fully.	*		- 3					
N/A  Describe Ca	use of Probl	em and Reme	dial Actio	n Taken *							
				ugh. Shut down l	ine, exca	avated with b	ackhoe and replace	ced section	on of pipe.		
Describe Are	ea Affected	and Cleanup	Action Tal	ken.*							
				sposed of contam to match surroun						nil liner, backfilled area with seed mixture.	
regulations a public health should their or the enviro	all operators or the envi operations honment. In a	are required to ronment. The nave failed to	o report as acceptana adequately OCD accep	nd/or file certain ince of a C-141 report investigate and in	release nort by the remediate	otifications a e NMOCD m e contaminati	nd perform correct arked as "Final R on that pose a thr	ctive acti Report" d reat to gr	ons for rel oes not rel ound wate	suant to NMOCD rules and eases which may endanger ieve the operator of liability r, surface water, human health ompliance with any other	
	1.	1	~				OIL CON	SERV	ATION	DIVISION	
Signature	Kuu	uy )	/ au	lue							
Printed Nam	e: Jimmy I	Carlile				Approved by	District Supervis	sor:			
Title: Regul	atory Affair	rs Coordinator				Approval Da	te:	]	Expiration	Date:	
E-mail Addr	ess: jimmy	c@forl.com				Conditions o	tions of Approval:			Attached	
Date: 6/	23/11	Ph	one: 432	-687-1777							

<sup>\*</sup> Attach Additional Sheets If Necessary



June 23, 2011

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

HOBBS OCD

JUL 1 4 2011

RECEIVED

921 North Bivins Amarillo. Texas 79107 Phone 806.467.0607 Fax 806.467.0622

Subject:

Remediation and Closure Report

Fasken Oil Ranch, Ltd.
Denton Mainline Release

ARTESIA

**AMARILLO** 

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

Dear Mr. Leking,

AUSTIN 9II West Anderson Lane Suite 202 Austin, Texas 78757 Phone 5I2.989.3428 Fax 5I2.989.3487 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.

HOBBS

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

### **Incident Date**

July 25, 2004

### MIDLAND

290I State Hwy 349 Midland, Texas 79706 Phone 432.522.2133 Fax 432.522.2180

### **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.

SAN ANTONIO

Il Commercial Place Schertz, Texas 78154 Phone 210.265.8025 Fax 210.568.2191

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 under lain 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).

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

Fax 918.382.0232

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

### **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:

Sample	Chlorides	Sample	Chloride	Sample	Chlorides
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		

<sup>\*</sup>North sidewall samples

### April 28, 2011 lab reports:

Sample	Chlorides
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.

<sup>\*\*</sup>South sidewall samples, etc.

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

mile Stull frell

David J. Adkins District Manager

Ofte.

### 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)

			(quarte	rs a	re s	ma	allest t	to larg	est)	(NAD83 UTM	l in meters)		(In feet)	
POD Number	Sub basin	Use	County		Q 16	100	Sec	Tws	Rng	x		STREET, STREET	Depth W WaterCo	
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	158	37E	670096	3657007*	110	35	75
L 01283 APPRO		PRO	LE		3	2	11	158	37E	671012	3656515*	120	40	80
L 01321 APPRO		PRO	LE		4	2	11	158	37E	671415	3656520*	120	32	88
L 01322 APPRO		PRO	LE	2	1	1	11	158	37E	670296	3657007*	120		
L 01323 APPRO		PRO	LE		4	2	11	158	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	158	37E	670197	3656908*	110	65	45
L 02317 APPRO		PRO	LE		1	1	11	158	37E	670197	3656908*	110	65	45
L 02391 APPRO		STK	LE	3	3	3	11	158	37E	670118	3655599*	80	37	43
L 07610		PRO	LE		3	2	11	158	37E	671012	3656515*	100		
L 07665		PRO	LE	4	4	4	11	158	37E	671529	3655614*	136	40	96
										Avera	ge Depth to	o Water	: 42 fe	et
											Minimun	n Depth	32 fe	et
											Maximun	n Depth:	65 fe	et

**Record Count: 14** 

**PLSS Search:** 

Section(s): 11

Township: 15S

Range: 37E

**HOBBS OCD** 

JUL 1 4 2011

RECEIVED

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.

<sup>\*</sup>UTM location was derived from PLSS - see Help

### APPENDIX II LABORATORY RESULTS



April 26, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

**HOBBS OCD** 

JUL 1 4 2011

RECEIVED

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 Hydorcarbons

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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: Project Number: DENTON MAINLINE

701014.024.01

Project Location:

Analyte

Analyte

DENTON MAINLINE

Sampling Date:

Sampling Type:

04/20/2011

Sampling Type: Sampling Condition: 5011

Sample Received By:

\*\* (See Notes)
Jodi Henson

Sample ID: N - 1 (H100823-01)

Chloride,	SM4500CI-B
-----------	------------

Chloride

Chloride

Chloride

Chloride

mg/kg

112

Result

2960

Analyzed By: HM

Result Reporting Limit

16.0

Reporting Limit

16.0

Analyzed 04/26/2011

Analyzed

04/26/2011

Method Blank ND

416

BS

416

% Recovery 104 True Value QC 400 RPD

3.77

3.77

3.77

Qualifier

Sample ID: N - 2 (H100823-02)

Chloride, SM4500Cl-B

mg/kg

mg/kg

Analyzed By: HM

nalyzeu by: nin

Method Blank

% Recovery

True Value QC

400

RPD

Qualifier

Sample ID: N - 3 (H100823-03)

Analyzed By: HM

Chloride, SM4500Cl-B Analyte

Result

Result

16.0

Reporting Limit
16.0

Reporting Limit

16.0

Analyzed 04/26/2011

Method Blank ND BS 416 % Recovery Tr

104

True Value QC 400 RPD C

Qualifier

Qualifier

Sample ID: N - 4 (H100823-04)

Analyte

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Allalyzeu by. II

Analyzed 04/26/2011

Method Blank ND

416

% Recovery 104 True Value QC

RPD 3.77

\*=Accredited Analyte

Cardinal Laboratories

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 2 of 13



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

Received: Reported: 04/21/2011

04/26/2011

Project Name: Project Number: DENTON MAINLINE 701014.024.01

Project Location:

DENTON MAINLINE

Sampling Date:

Sampling Type:

04/20/2011

g Type:

Soil

Sampling Condition: Sample Received By: \*\* (See Notes)
Jodi Henson

: .

Sample ID: E - 1 (H100823-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d 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	Analyze	d By: HM					1.7
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	Analyze	ed 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, SM4500CI-B	mg	/kg	Analyze	d 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	
C									
Sample ID: E - 5 (H100823-09) Chloride, SM4500Cl-B		/kg	Analyze	ed 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



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

Received:

04/21/2011

04/26/2011

Reported: Project Name:

**DENTON MAINLINE** 

Project Number:

701014.024.01

Project Location:

**DENTON MAINLINE** 

Sampling Date:

04/20/2011

Sampling Type:

% Recovery

108

Soil

True Value QC

400

Sampling Condition:

\*\* (See Notes)

RPD

0.00

Qualifier

Sample Received By:

432

Jodi Henson

Sample ID: E - 6 (H100823-10)

Chlorida	CM4500CLB
спіопае,	SM4500CI-B

	22	~		L	-
- 1	п	u	1	к	u

### Analyzed By: HM

Method Blank

ND

Analyte	Result	Reporting Limit	Analyzed	
Chloride	48.0	16.0	04/26/2011	

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

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

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

Chloride, SM4500Cl-B	mg,	/kg	Analyze	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	Analyze	d 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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\*=Accredited Analyte

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Celey D. Keine



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

Received: Reported: 04/21/2011

04/26/2011

Project Name: Project Number:

DENTON MAINLINE 701014.024.01

Project Location:

**DENTON MAINLINE** 

Sampling Date:

Sampling Type:

04/20/2011

Sampling Condition:

Soil

Sample Received By:

\*\* (See Notes) Jodi Henson

Sample ID: S - 3 (H100823-15)

Chloride,	SM4500Cl	-B
-----------	----------	----

### Analyzed By: HM

	Analyte
Chloride	

Result

1660

2840

Reporting Limit 16.0

Analyzed 04/26/2011

Analyzed

04/26/2011

Method Blank ND

432

% Recovery 108

True Value QC 400

RPD

0.00

Qualifier

Sample ID: S - 4 (H100823-16)

Chloride,	SM4500CI-E
-----------	------------

Chloride

Chloride

mg/	kg
-----	----

### Analyzed By: HM

Analyte Result

Reporting Limit 16.0

04/26/2011

Method Blank ND

BS 432 % Recovery 108

True Value QC 400

RPD

Qualifier 0.00

Sample ID: S - 5 (H100823-17)

Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Analyte

Result 3200 Reporting Limit Analyzed

16.0

Reporting Limit

16.0

Method Blank

432

% Recovery

True Value QC

RPD

Qualifier

400

0.00

Sample ID: S - 6 (H100823-18)

Analyte

### Chloride, SM4500Cl-B

mg/	
Result	

800

Result

336

Analyzed By: HM

% Recovery

108

Qualifier

Qualifier

Chloride

Chloride

04/26/2011

Analyzed

Method Blank ND

ND

ND

BS 432

108

True Value QC 400

RPD

0.00

Sample ID: S - 7 (H100823-19)

Analyzed By: HM

Chloride, SM4500Cl-B Analyte

mg/kg

Reporting Limit Analyzed 16.0 04/26/2011

Method Blank

BS 432 % Recovery 108

True Value QC 400

RPD 0.00

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



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

Received: Reported: 04/21/2011

04/26/2011

Project Name: Project Number: **DENTON MAINLINE** 701014.024.01

Project Location:

**DENTON MAINLINE** 

Sampling Date:

Sampling Type:

Soil

Sampling Condition:

Sample Received By:

\*\* (See Notes) Jodi Henson

04/20/2011

Sample ID: W - 1 (H100823-20)

	OOCI-B

r	n	g	/	k
		-	•	

### Analyzed By: HM

	Analyte
Chloride	

Result

<16.0

Result

3960

Reporting Limit 16.0

Reporting Limit

16.0

Analyzed 04/26/2011 Method Blank ND

BS 432

BS

432

% Recovery

108

True Value QC 400

Qualifier

**RPD** 0.00

**RPD** 

0.00

Sample ID: W - 2 (H100823-21)

Analyte

Chloride, S	44500CI-E
-------------	-----------

Chloride

Chloride

mg/kg	

### Analyzed By: HM

Analyzed

Method Blank ND

% Recovery 108

True Value QC 400

Qualifier

Sample ID: W - 3 (H100823-22)

Chloride, SM4500Cl-B

mg/kg

### Analyzed By: HM

Analyte

Result 11000 Reporting Limit

16.0

Reporting Limit

Analyzed 04/26/2011

Analyzed

04/26/2011

Method Blank ND

432

True Value QC % Recovery

**RPD** 

0.00

Qualifier

Sample ID: W - 4 (H100823-23)

Analyte

### Chloride, SM4500Cl-B

mg/kg

Result

2520

Analyzed By: HM

Method Blank

ND

108

True Value QC

400

RPD

Qualifier

Chloride

Chloride

16.0 04/26/2011 ND

BS 432 % Recovery 108

% Recovery

108

400

0.00

Sample ID: W - 5 (H100823-24)

Analyte

### Chloride, SM4500Cl-B

mg/kg

Analyzed By: HM

Result Reporting Limit Analyzed 1180 16.0 04/26/2011

Method Blank

BS 432 True Value QC

400

**RPD** 0.00 Qualifier

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages, Cardinal's liability and client's exclusive remedy for any claim ari 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. including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or succ 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 exc ors arising out of or related to the perform

Celey D. Keine



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

Received: Reported: 04/21/2011

04/26/2011

Project Name:

**DENTON MAINLINE** 

Project Number: Project Location: 701014.024.01

**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)

п		

### Analyzed By: HM

	Analyte
Chloride	

Result

6400

Reporting Limit 16.0

Analyzed 04/26/2011

Analyzed

Method Blank ND

432

% Recovery 108

108

True Value QC

RPD 0.00 Qualifier

Sample ID: W - 7 (H100823-26)

Chloride,	SM4500CI-B

Chloride

Chloride

Chloride

Chloride

m	g/	кg

### Analyzed By: HM

Analyte Result Reporting Limit

16.0 04/26/2011 Method Blank ND

BS % Recovery 432

True Value QC 400

400

RPD

Qualifier

Sample ID: W - 8 (H100823-27)

### Chloride, SM4500Cl-B

### mg/kg

### Analyzed By: HM

Analyte

Result 96.0

Result

32.0

Result

32.0

336

Reporting Limit 16.0

Reporting Limit

16.0

Reporting Limit

16.0

Analyzed

04/26/2011

Analyzed

04/26/2011

04/26/2011

Method Blank

% Recovery

108

True Value QC 400

RPD

0.00

Qualifier

0.00

Sample ID: W - 9 (H100823-28)

Analyte

### Chloride, SM4500Cl-B

### mg/kg

Analyzed By: HM

Method Blank

ND

ND

ND

BS

432

BS

432

432

% Recovery

108

True Value QC

400

RPD 0.00

Qualifier

Sample ID: W - 10 (H100823-29)

### Chloride, SM4500Cl-B

Analyte

### mg/kg

### Analyzed By: HM

### Analyzed

Method Blank

% Recovery 108

True Value QC 400

RPD 0.00

Qualifier

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\*=Accredited Analyte

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Celey D. Keene



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

Received: Reported: 04/21/2011

04/26/2011

DENTON MAINLINE

Project Name: 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	Analyze	d By: HM				4.4	
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 (H100	823-31)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM				16 1	
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 (H100	823-32)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM				44	
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 (H100	823-33)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					3
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value OC	RPD	Qualifier
raidiyas	Result	Reporting Limit	7 11 101 / 200	ricatod blank	00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	True value qu	ru D	- Caramian

### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene



### **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

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene

### CARDINAL

101 East Marland, Hobbs, NM 88240

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

(5)	(575) 393-2326 FAX (575) 393-2476				F
Company Name: Talon LLPE	Talon LLPE		BILL TO	ANALYSIS	SIS REQUEST
Project Manager:	Mike Stubble field		P.O. #:		
Address:	408 W. Teras Aux.	The state of the s	Company: Talm/1PE		
City:	ate: NM	Zip: 88210	Attn:		
Phone #:	50C-441-7254 Fax#:		Address:		
Project #:	201014,024.01 Project Owner:	2 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	City:		
Project Name:	Denton Mainline		State: Zip:		
Project Location:	1		Phone #:		
Sampler Name:	mise to wellfull		Fax #:	32	
FOR LAB USE ONLY		MATRIX	PRESERV. SAMPLING	PP:	
Lab I.D.	Sample I.D.	CONTRINERS CONTRINERS ROUNDWATER VASTEWATER OIL	отнея: Се/соог Отнея:	To10) C6(0r.	
HINS 22.1 W.	11-11-11-11-11-11-11-11-11-11-11-11-11-	S 5	A (20)		
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Add'l Phone #: Add'l Fax #:	
☐ Yes ☐ No Add'l F	
Phone Result: Fax Result: REMARKS:	ED BY:
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ices harconner by Cardinal seguidates of this ref. 70 11  2: 41 p.n. Réceived By tite: Réceived By me:	Samp Soon 25.56
lated to the performance of services of se	Circle One) Bus - Other:
Relinquished By:  Trace Stage 131 Relinquished By:	Delivered By: (Circle One) Sampler - UPS - Bus - Other:

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Caboratories

for East Marland, Hobbs, NW 88240

# CINICACIONOCO AND ANALYSIS NECTOR

4.2

AROURS! ののとしてどう # Sh: 01 1102/02/h # 22:01 mas/oc/h A SPI OI HOSTEST P 10: 28 A \$ 98:01 11 02/02/h V 68:01 1102/02/7 1 25:01 1102/02/h 4 (20 201 10:30 A 4 EE; 01 11 02/02/h Woh; 01 "02/02 } Company: Talo, LIL 002/00 h явито ICE I COOF Phone % P, doiress 50. 参 State: OTHER: ANTH City: BOUNTS 2010 14. 024.01 Project Owner Facks oil + Reach TiOS MASTEMATER State: NM Zp: 89210 BEOUNDWATER 5016-946-JCS : XXE-# CONTAINERS (675) 383-2326 FAX (575) 383-2476 Project Manager mike Grusble field Denton Mainline Sample LD. 408 W. Terai Arc 425-144.302 Company Name: Talon / LPE Arteria 10 5 5.3 10 5.3 10 5.3 10 5.3 10 5.3 10 5.3 9.5.7 18 5.6 HIDD\$23-11 E-1 30 W-1 Project Location: Sampler Name: Project Name: FOR LAB USE OF LY Lab LD LEASE NOTE: Project #: A tichness: Pinore #: City:

SEWAKKS: 4/21/2011 illiging of givensory infinite out of in related to the Relinquished By: analyses. All delins including those for negli-tervice. In ne eveni thell Cardinal be liable

No. 18.de" Park

Kelinquished By Circle One)

Sample: Gas Bins - Other: 35.5 Con From Sample Concinum

† Cardinal cannot accept vorbal changes. Please (ax writen spances, to 505-393-2476



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

88240	393-2476
Z	393
d, Hobbs,	FAX (575)
East Marland	393-2326
101 E	(575)

3-4 ANALYSIS REQUEST 1/20/294 10:54A 4/20/201 10: 58 A 4/20/24 11:00A 420:11 "12/02/h TIME \$ 15;01 "cz/a/h 4 51:11 HE 06/20 4/20/201 11:14A 4/22/24, 11:040 430:11 11:06A NO1:11 10/12/4 SAMPLING Company: Talon ( 210E DATE BILL TO Zip: OTHER Phone #: ICE / COOF Address: P.O. #: State: Fax #: Attn: ACID/8ASE City: ЯЗНТО SCUDGE 701014.024.01 Project Owner: Fasker Ody Ranch MATRIX OIL State: N. Zip: 89210 **WASTEWATER** Fax #: 525-746-8905 **ВЗТАМОИ ОЯЗ** # CONTAINERS (G)RAB OR (C)OMP 3 3 Project Manager: M. N. S Full Lefield Sample I.D. Ocaton Main line mie Steelfuit 40° W. Texse 425.441.2254 Company Name: Talon LPE Artesia 22 W. 4. 3 24 W. 4. 4 26 W. 5 26 W. 6 26 W. 6 26 W. 6 27 W. 6 28 W. 6 29 W. 7 20 W. 11 20 W. HIDE 523-21 W.Z Project Location: Sampler Name: Project Name: FOR LAB USE ONLY Lab I.D. Project #: Address: Phone #: City:

Phone Result: Fax Result: REMARKS: T. Received By: nance of services hereunder by Cardray, coardies.
Date:
Received affigures or successors arising out of or related to the perti-Refinquished By:

☐ Yes ☐ No Add'l Phone#:

meer statelled	12:4100	るところうと	J	Y
Relinquished By:	Date:	Réceived By:		-
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	- "	Sample Condition Cool Intact	CHECKED BY:	

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Page 12 of 13



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

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roject Manager:								0.	P.O. #:					_								-		
Address:	408 W. TCKAS AVC.							ŏ	mpa	:Ku	Talon	Company: Talen / LPE							-					
City:	Artisia State: NM Zip:	Z 4	:di	80210	012			A	Attn:															
Phone #:	525-441-72xy Fax #: 521-246-8505	-24	8-9	1505				¥	Address:	S														
Project #:	JOIO14, 024, of Project Owner: Faster Oil + Ranch	Jer:	54.51	les 0	4 f.	Ran	4	Ü	City:													-		
Project Name:	Oenton Main Line							St	State:		Zip:								-					
Project Location:								ď	Phone #:	#									-					
Sampler Name:	mis STREEP, 33							T	Fax #:								-							
FOR LAB USE ONLY		-	-	-		MATRIX	RIX		PRE	PRESERV.		SAMPLING	9	52		-		-						order order
Lab I.D.	Sample I.D.	BMO(3) 80 848(8)	(G)RAB OR (C)OMP.	# CONTAINERS	MASTEWATER	TIOS	OIL	SLUDGE:	ACID/BASE:	ICE / COOF	:яэнто	DATE	TIME	15 to 1 Chlorid				1 1 1 1 1 1						
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

Sample Condition
Cool Intact
Cool Intact
Cool Intact
Cool Intact
Cool Intact
No No

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Page 13 of 13



April 28, 2011

MIKE STUBBLEFIELD

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: DENTON MAINLINE

**HOBBS OCD** 

JUL 1 4 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 Hydorcarbons

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

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



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: Project Number: DENTON MAINLINE 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, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/28/2011	ND	432	108	400	0.00	
Sample ID: E - 8 (H100880-	02)								
Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	04/28/2011	ND	432	108	400	0.00	

### Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene



### **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  $6^{\circ}\text{C}$ 

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Mariand, Hobbs, NM 88240
(505) 393-2326 FAX (505) 393-2476

Company Name:	Company Name: Talon/LPE								arte de		1000	8	BILL TO					ANALYSIS REQUEST	7	SIS	R	ZEQ.	SE	ST					Г
Project Manager:	mike Stollefield									P.O. #:	#						L		L	Г		H		L	H	H		L	Г
Address:	408 W. Teras Ave.									com	pan	×	Company: This / LPE	1	4							-							_
City:	Arteria	State: NM		::	Zip: 98210	013			4	Attn:						_			_							W 1		_	_
Phone #:	hsec. Inh-sus	Fax #: \$75-						1	~	Add	Address:					_			_					_	_	-			_
Project #:	10.420.410107	Project Owner	i.						_	City:									_							_			
Project Name:	Denton Mainline								31	State:			Zip:									_				_			_
Project Location:	\								-	hol	Phone #:								_			-				_			-
Sampler Name:	mie steelfuld								-	Fax #:	#	-				_			_						_	_			_
FOR LAB USE ONLY	-		H	-	Н		MA	MATRIX		1	PRESERV.	ERV	. SAMPLING	NG	33				_			-				-		ы	
Lab I.D.	Sample I.D.	q.	GIRAB OR (C)OMP	CONTAINERS	ROUNDWATER	RETEWATER	POIL	٦١٥	SULPE	OTHER:	CE / COOF	: A3HTC	DATE	TIME	Total Chlorid														
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PLEASE NOTE: Liability and	PLEASE WOTE: Liability and Damages. Cardinal's lability and client's exclusive nemedy for any daim erising whether based in contract or tod, shall be limited to two amount paid by the client for the	ieni's exclusive remedy for ar	any de	- mie	w gnisi	hethe	based	in 600 n	tractor	tort, s	hail be	- imited	d to the amount pak	i by the clent for	2	1			4	٦		1	I	1	-	1		4	7

mergrass, or canner moutding those for negligance and mys service. In no event shall Cardinal be liable for incidental or affiliatus or successions anding out of or related to the performance of the perf

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\	1102/82/6	11.	Fax Result:	Yes   No	Add'l Fax #:	
mise (Suelepiel)	185:21	Charles and	REMARKS:			,
Relinquished Byk	Date:	Received By:	1			
	Time:					
Delivered By: (Circle One)		Sample Condition CHECKED BY:				
Sampler - UPS - Bus - Other:		Loop intact				

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393,2476

### APPENDIX III FINIAL C-141