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ENVIRONMENTAL CONSULTING ENGINEERING DRILLING CONSTRUCTION SPILL MANAGEMENT GENERAL CONTRACTING

> Toll Free: 866.742.0742 www.talonlpe.com

March 12, 2013

Mr. Mike Bratcher NMOCD District 2 811 S. 1st Street Artesia, NM 88210

Subject:

Remediation and Closure Report Devon Energy Corporation Snapping 10 Federal No. 1H 30-015-37899 2RP-1975

Dear Mr. Bratcher,

Devon Energy Corporation (Devon) had contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the above referenced location. The results of our soil assessment, completed remediation activities and closure request are submitted herein.

Incident

The release occurred on September 29, 2013 at 3:00 a.m.

Background Information

The Snapping 10 Federal No. 1 is located approximately sixty (60) miles Southeast of Carlsbad, New Mexico. The legal location for this site is Unit Letter B of Section 10, Township 23S, Range 31E in Eddy County, New Mexico. More specifically the Latitude and Longitude for the release are 32.063922 North and -103.763906 West. A site plan is presented in Appendix I.

According to the soil survey provided by the United States Department of Agriculture Natural Resources Conservation Service, the soil in this area is made up of Tonuco loamy fine sand with 0 to 3 percent slopes (eroded). This soil type has a restrictive petrocalcic layer at 6 to 20 inches below ground surface (bgs). Per the New Mexico Bureau of Geology and Mineral Resources, the local surface and shallow geology is Holocence to Middle Pleistocene in age and is comprised of eolian sands. Drainage courses in this area are normally dry. Ground water in the project vicinity is approximately 292-feet bgs, according to the New Mexico Office of the State Engineer. See Appendix II for the referenced groundwater data.

The ranking for this site is 0 based on the following:

Depth to ground water	>100'
Wellhead protection area	>1000'
Distance to surface water body	>1000'



Incident Description

A flowline leaked causing a release of 10bbls of crude oil. The flowline was repaired and put back into service. No fluid was recovered. Talon personnel mobilized on October 15, 2013 to conduct a site assessment and perform initial sampling activities. Talon personnel mobilized again on October 23, 2013 to further vertically delineate the site utilizing a hand auger. Refusal was encountered (caliche) at a depth of 2-feet bgs which prevented any further vertical delineation by hand. A summary of the referenced sampling activities is provided below.

Initial Laboratory Results

Sample ID	Depth	BTEX	Chlorides	TPH (mg/kg)	TPH (mg/kg)
	(feet)	(mg/kg)	(mg/kg)	GRO	DRO
S-1	0	66.0	ND	982	10200
S-1	1	996		11800	14200
S-1 refusal	2	23.7		177	494
S-2	0	1.92	ND	11.6	63.5
S-3	0	66.2	ND	751	7860
S-3	1	1380		15300	16300
S-3 refusal	2	396		3600	4670
S-4	0	116	64	1950	22800
S-4	1	784		8600	9570
S-4 refusal	2	520		7210	8910
S-5	0	16.7	ND	188	5750
S-5	1	ND		ND	ND
S-5 refusal	2	ND		ND	ND
S-6	0	158	368	2120	12500
S-6	1	11.6		152	414
S-6 refusal	2	12.3		133	410
S-7	0	1.13	ND	32.2	756
S-7	1	302		2800	3580
S-7 refusal	2	25.6		379	932

See Appendix III for complete report of laboratory results.

Confirmation Laboratory Results

February 5, 2014

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-3	2.5	0.853		<10	46
S-4	2.5	0.789		<10	15.8

(ND) Analyte not detected

(--) Analyte not tested

Based upon the site ranking of **0**, NMOCD Recommended Remedial Action Levels (RRAL's) are 50 mg/kg for BTEX, 10 mg for Benzene, and 5,000 mg/kg for TPH.

Remedial Actions Taken

Talon personnel mobilized to the site to begin excavation of the impacted area in accordance with the approved work plan and the additional stipulations as directed by the NMOCD and BLM. The impacted areas in the vicinity of sample locations S-5 and S-6 were excavated to a depth of 1-foot bgs. The impacted areas in the vicinity of sample locations S-1 and S-7 were excavated to a depth of 2-feet bgs. The impacted areas in the vicinity of sample locations S-3 and S-4 were excavated to a depth of 2.5-feet bgs.

On January 29, 2014 Talon personnel mobilized to the site to collect confirmation soil samples to insure that all of the impacted soil was removed. Upon approval from NMOCD, the excavated area was backfilled back to grade using new material transported from a local borrow pit and was contoured to match the surrounding location. The area was seeded on February 11, 2014 using BLM seed mix #2. The seeding label is attached.

Closure

On behalf of Devon Energy Corporation, we respectfully request that no further actions be required and that closure with respect to this release be granted.

If we can provide additional information or be of further assistance please contact our office at 575.746.8768.

Respectfully submitted,

TALON/LPE

M. Wilson

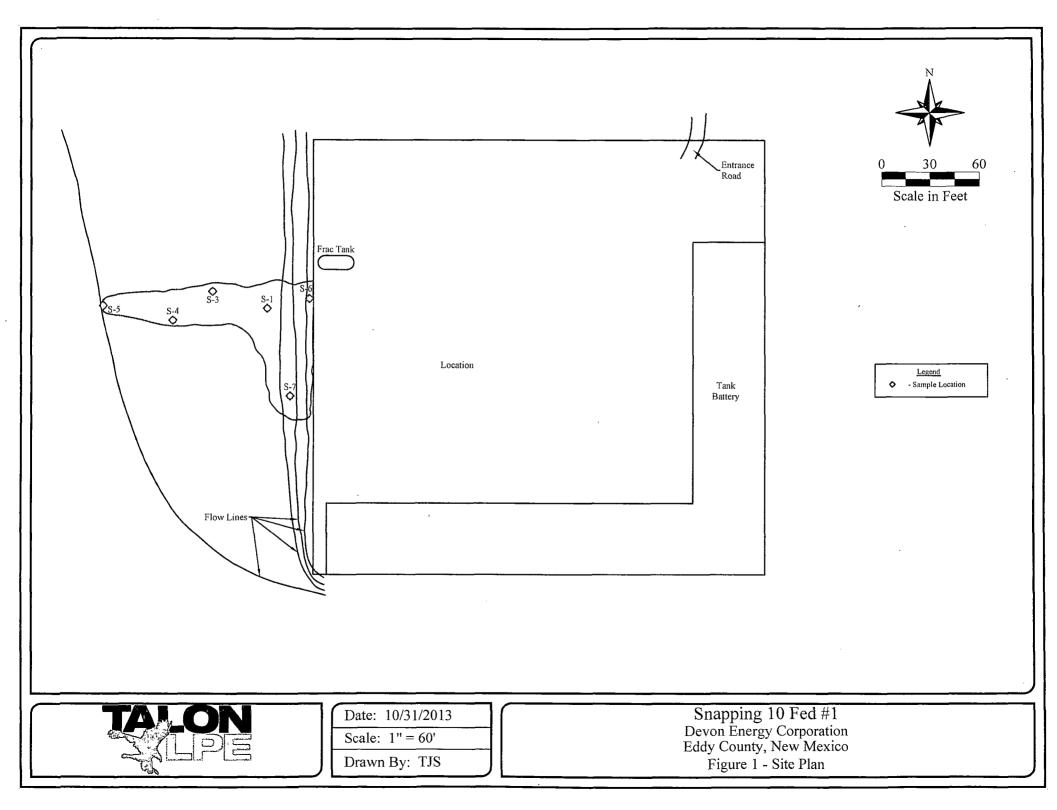
Kimberly M. Wilson Project Manager

David J. Adkins District Manager

CC. Mr. Jeffery Robertson **Bureau of Land Management** 620 E Green St. Carlsbad, NM 88210 **APPENDIX I**

SITE MAP

1



APPENDIX II

GROUNDWATER DATA

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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	(R=POD has been replaced, O=orphaned,											
& no longer serves a	C=the file is	(qua	rters	are	1=NW	2=NE (3=SW 4=SE)				
water right file.)	closed)	(qua	rters	ares	smalle	st to lar	gest) (NA	, AD83 UTM in me	ters)	(In feet)	
	POD											•
	Sub-	Q	Q (ב						Depth	Depth	Water
POD Number	Code basin Cou	nty 64	16	4 Se	c Tws	Rng	<u>X</u>	<u>Y</u>	Distance	Well	Water	Column
<u>C 02090</u>	E	2	4	4 0'	265	31E	620329	3548533* 🌍	3346	350	335	15
C 03554 POD1	C EI	2 2	1	4 0 ⁻	26S	31E	620547	3549148 🕎	3754	630	300	330
<u>C 01777</u>	C EI	2		08	3 26S	31E	613245	3547409* 🚱	3858	325	300	25
<u>C 02248</u>	E	D 1	2	3 08	3 26S	31E	612942	3547316* 🌍	4167	300	292	8
<u>C 02249</u>	E	D 1	2	3 08	3 26S	31E	612942	3547316* 🚱	4167	300	292	8
								Averaç	ge Depth to	Water:	303	feet
									Minimum	Depth:	292	feet
									Maximum	Depth:	335	feet
Record Count: 5	taun olik taka adan adan tang funi unan tuni						976) 9797 With 1979 1986 1999	galle ninden Tejer, ragis geran banan allippi gebas				
Basin/County Search	1:											
County: Eddy												
UTMNAD83 Radius S	earch (in meters)	-										
Easting (X): 61709	94	No	orthi	ng (Y): 35	47676		Radius	5000			

*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.

APPENDIX III

LABORATORY RESULTS



October 22, 2013

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: SNAPPING #10 FED #1

Enclosed are the results of analyses for samples received by the laboratory on 10/15/13 13:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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/ga/lab_accred_certif.html.

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 (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,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	10/15/2013	Sampling Date:	10/15/2013
Reported:	10/22/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-1 / SURFACE (H302498-01)

BTEX 8021B mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS True Value QC RPD Qualifier % Recovery Benzene* 1.00 10/18/2013 2.13 ND 1.78 89.1 2.00 0.150 10/18/2013 Toluene* 16.4 1.00 ND 1.90 95.2 2.00 2.95 Ethylbenzene* 5.32 1.00 10/18/2013 2.00 ND 1.94 96.8 3.35 Total Xylenes* 42.2 3.00 10/18/2013 ND 5.87 97.9 6.00 6.19 Total BTEX 66.1 6.00 10/18/2013 ND

Surrogate: 4-Bromofluorobenzene (PIE 112 % 89.4-126

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/16/2013	ND	416	104	400	0.00	
TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	982	10.0	10/16/2013	ND	191	95.3	200	2.37	
DRO >C10-C28	10200	10.0	10/16/2013	ND	191	95.5	200	3.62	
Surrogate: 1-Chlorooctane	169	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	322	63.6-15	4						

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*=Accredited Analyte

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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/15/2013	Sampling Date:	10/15/2013
Reported:	10/22/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-2 / SURFACE (H302498-02)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/18/2013	ND	1.78	89.1	2.00	0.150	
Toluene*	0.200	0.050	10/18/2013	ND	1.90	95.2	2.00	2.95	
Ethylbenzene*	0.182	0.050	10/18/2013	ND	1.94	96.8	2.00	3.35	
Total Xylenes*	1.53	0.150	10/18/2013	ND	5,87	97.9	6.00	6.19	
Total BTEX	1.92	0.300	10/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 123 % 89.4-126

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/16/2013	ND	416	104	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	11.6	10.0	10/17/2013	ND	191	95.3	200	2.37	
DRO >C10-C28	63.5	10.0	10/17/2013	ND	191	95.5	200	3.62	
Surrogate: 1-Chlorooctane	. 97.1	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	103	% 63.6-15	4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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Received:	10/15/2013	Sampling Date:	10/15/2013
Reported:	10/22/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-3 / SURFACE (H302498-03)

BTEX 8021B	mg,	/kg	Analyze	d By: MS				<u> </u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	1.80	1.00	10/18/2013	ND	1.78	89.1	2.00	0.150	
Toluene*	13.5	1.00	10/18/2013	ND	1.90	95.2	2.00	2.95	
Ethylbenzene*	5.58	1.00	10/18/2013	ND	1.94	96.8	2.00	3.35	
Total Xylenes*	45.4	3.00	10/18/2013	ND	5.87	97.9	6.00	6.19	
Total BTEX	66.2	6.00	10/18/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	122	% 89.4-12	6				<u> </u>		
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/16/2013	ND	416	104	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	751	10.0	10/16/2013	ND	191	95.3	200	2.37	
DRO >C10-C28	7860	10.0	10/16/2013	ND	191	95.5	200	3.62	
Surrogate: 1-Chlorooctane	181	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	225	% 63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/15/2013	Sampling Date:	10/15/2013
Reported:	10/22/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		
		and the second	

Sample ID: S-4 / SURFACE (H302498-04)

BTEX 8021B	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	10/18/2013	ND	1.78	89.1	2.00	0.150	
Toluene*	24.0	5.00	10/18/2013	ND	1.90	95.2	2.00	2.95	
Ethylbenzene*	10.5	5.00	10/18/2013	ND	1.94	96.8	2.00	3.35	
Total Xylenes*	81.6	15.0	10/18/2013	ND	5.87	97.9	6.00	6.19	
Total BTEX	116	30.0	10/18/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 107 % 89.4-126

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AP		<u> </u>				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	ide 64.0 16.0		10/16/2013	ND	416	104	400	0.00		
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	1950	100	10/21/2013	ND	191	95.3	200	2.37		
DRO >C10-C28	22800	100	10/21/2013	10/21/2013 ND 191 95.5				3.62		

Surrogate: 1-Chlorooctadecane 651 % 63.6-154

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager

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TALON LPI	E								
DAVID AD	KINS								
408 W. TEXAS AVE.									
ARTESIA N	ARTESIA NM, 88210								
Fax To:	(575) 745-8905								

Received:	10/15/2013	Sampling Date:	10/15/2013
Reported:	10/22/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-5 / SURFACE (H302498-05)

BTEX 8021B	mg,	'kg	Analyze	d By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.200	0.200	10/18/2013	ND	1.78	89.1	2.00	0.150		
Toluene*	1,85	0.200	10/18/2013	ND	1.90	95.2	2.00	2.95		
Ethylbenzene*	1.68	0.200	10/18/2013	ND	1.94	96.8	2.00	3.35		
Total Xylenes*	13.2	0.600	10/18/2013	ND	5.87	97.9	6.00	6.19		
Total BTEX	16.7	1.20	10/18/2013	ND						
Surrogate: 4-Bromofluorobenzene (PIL	135	% 89.4-12	6	<u> </u>			, , , , , , , , , , , , , , , , , , , 			
Chloride, SM4500Cl-B	mg,	'kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	10/16/2013	ND	416	104	400	0.00		
TPH 8015M	rPH 8015M mg/kg			d By: MS					S-04	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	

ND

NÐ

191

191

95.3

95.5

200

200

2.37

3.62

10/16/2013

10/16/2013

Surrogate: 1-Chlorooctane133 %65.2-140Surrogate: 1-Chlorooctadecane216 %63.6-154

188

5750

10.0

10.0

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GRO C6-C10

DRO >C10-C28

*=Accredited Analyte

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Celuz D. Kune

Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	10/15/2013	Sampling Date:	10/15/2013
Reported:	10/22/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-6 / SURFACE (H302498-06)

BTEX 8021B mg/kg Analyzed By: MS Reporting Limit RPD Qualifier Analyte Result Analyzed Method Blank BS % Recovery True Value QC Benzene* 4.80 2.00 10/18/2013 ND 1.78 89.1 2.00 0.150 Toluene* 40.2 2.00 10/18/2013 ND 1.90 95.2 2.00 2.95 Ethylbenzene* 12.5 2.00 10/18/2013 ND 1.94 96.8 2.00 3.35 Total Xylenes* 100 6.00 10/18/2013 ND 5.87 97.9 6.00 6.19 Total BTEX 158 12.0 10/18/2013 ND

Surrogate: 4-Bromofluorobenzene (PIL 113 % 89.4-126

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	368	16.0	10/16/2013	ND	416	104	400	0.00		
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	2120	100	10/21/2013	ND	191	95.3	200	2.37		
DR0 >C10-C28	12500	100	10/21/2013	ND	191	95.5	200	3.62		
Surrogate: 1-Chlorooctane	278	% 65.2-14	0							

Surrogate: 1-Chlorooctadecane 372 % 63.6-154

Cardinal Laboratories

*=Accredited Analyte

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Celey D.Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
QM-4X	The spike recovery was outside of QC acceptance limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
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 SM4500CI-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. Kune

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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



October 29, 2013

KIMBERLY WILSON

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: SNAPPING #10 FED #1

Enclosed are the results of analyses for samples received by the laboratory on 10/23/13 14:35.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 <u>www.tceq.texas.gov/field/qa/lab_accred_certif.html</u>.

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 (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,

Celing D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-1 1' (H302569-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Biank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	65.2	5.00	10/24/2013	ND	2.05	103	2.00	0.398	
Toluene*	342	5.00	10/24/2013	ND	2.14	107	2.00	0.0304	
Ethylbenzene*	72.3	5.00	10/24/2013	ND	2.17	108	2.00	0.263	
Total Xylenes*	516	15.0	10/24/2013	ND	6.55	109	6.00	1.57	
Total BTEX	996	30.0	10/24/2013	ND					
Surrogate: 4-Bromofluorobenzene (PID	137								

TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	11800	100	10/24/2013	ND	192	95.8	200	2.53	
DRO >C10-C28	14200	100	10/24/2013	ND	189	94.6	200	3.08	

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

236%

63.6-154

*=Accredited Analyte>

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Celeg D.Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-1 2' (H302569-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.218	0.050	10/24/2013	ND	2.05	103	2.00	0.398	
Toluene*	5.15	0.050	10/24/2013	ND	2.14	107	2.00	0.0304	
Ethylbenzene*	2.22	0.050	10/24/2013	ND	2.17	108	2.00	0.263	
Total Xylenes*	16.1	0.150	10/24/2013	ND	6.55	109	6.00	1.57	
Total BTEX	23.7	0.300	10/24/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	249	% 89.4-12	6						

TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	177	10.0	10/24/2013	ND	192	95.8	200	2.53	
DRO >C10-C28	494	10.0	10/24/2013	ND	189	94.6	200	3.08	

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

82.4 %

63.6-154

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Celey D. Kerne

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-3 1' (H302569-03)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	149	10.0	10/24/2013	ND	2.05	103	2.00	0.398	
Toluene*	509	10.0	10/24/2013	ND	2,14	107	2.00	0.0304	
Ethylbenzene*	83.0	10.0	10/24/2013	ND	2.17	108	2.00	0.263	
Total Xylenes*	640	30.0	10/24/2013	ND	6.55	109	6.00	1.57	
Total BTEX	1380	60.0	10/24/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 117 % 89.4-126 TPH 8015M mg/kg Analyzed By: MS S-06 Analyte Result Reporting Limit Analyzed Method Blank True Value QC RPD Qualifier BS % Recovery GRO C6-C10 15300 100 10/24/2013 ND 192 95.8 200 2.53 DRO >C10-C28 16300 100 10/24/2013 ND 189 94.6 200 3.08 Surrogate: 1-Chlorooctane 473 % 65.2-140

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Surrogate: 1-Chlorooctadecane

349 %

63.6-154

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Celeg D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-3 2' (H302569-04)

BTEX 8021B	mg	mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	31.5	5.00	10/24/2013	ND	2.05	103	2.00	0.398	
Toluene*	140	5.00	10/24/2013	ND	2.14	107	2.00	0.0304	
Ethylbenzene*	27.6	5.00	10/24/2013	ND	2.17	108	2.00	0.263	
Total Xylenes*	198	15.0	10/24/2013	ND	6.55	109	6.00	1.57	
Total BTEX	396	30.0	10/24/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL	117	% 89.4-12	б					
трн 8015м	mg/kg		Analyze	Analyzed By: MS				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD
GRO C6-C10	3600	10.0	10/24/2013	ND	192	95.8	200	2.53
DR0 >C10-C28	4670	10.0	10/24/2013	ND	189	94.6	200	3.08

Surrogate: 1-Chlorooctane	187 %	65.2-140	
Surrogate: 1-Chlorooctadecane	148 %	63.6-154	

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S-04

Qualifier

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-4 1' (H302569-05)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	12.3	10.0	10/24/2013	ND	2.05	103	2.00	0.398	
Toluene*	301	10.0	10/24/2013	ND	2.14	107	2.00	0.0304	
Ethylbenzene*	55.6	10.0	10/24/2013	ND	2.17	108	2.00	0.263	
Total Xylenes*	415	30.0	10/24/2013	ND	6.55	109	6.00	1.57	
Total BTEX	784	60.0	10/24/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 113 % 89.4-126

155 %

63.6-154

TPH 8015M	mg	/kg	Analyze	d By: MS					S-04
. Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	8600	10.0	10/24/2013	ND	192	95.8	200	2.53	
DRO >C10-C28	9570	10.0	10/24/2013	ND	189	94.6	200	3.08	

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Surrogate: 1-Chlorooctadecane

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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager

: Rage:6 of 17



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

Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-4 2' (H302569-06)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	12.7	5.00	10/28/2013	ND	2.05	103	2.00	0.398	
Toluene*	176	5.00	10/28/2013	ND	2.14	107	2.00	0.0304	
Ethylbenzene*	38,9	5.00	10/28/2013	ND	2.17	108	2.00	0.263	
Total Xylenes*	292	15.0	10/28/2013	ND	6.55	109	6.00	1.57	
Total BTEX	520	30.0	10/28/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 116 % 89.4-126

205 %

63.6-154

TPH 8015M	mg/kg		Analyzed By: MS					S-04	
Analyte	Result	Reporting Limit	Analýzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	7210	10.0	10/24/2013	ND	192	95.8	200	2.53	
DRO >C10-C28	8910	10.0	10/24/2013	ND	189	94.6	200	3.08	
Surrogate: 1-Chlorooctane		% 65.2-14							

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Surrogate: 1-Chlorooctadecane

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

R Page 7 of 17



TALON LP	E
KIMBERLY	WILSON
408 W. TE	XAS AVE.
ARTESIA N	IM, 88210
Fax To:	(575) 745-8905

Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-5 1' (H302569-07)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2013	ND	1.89	94.4	2.00	0.364	
Toluene*	<0.050	0.050	10/25/2013	ND	1.94	97.1	2.00	0.484	•
Ethylbenzene*	<0.050	0.050	10/25/2013	ND	1.95	97.7	2.00	0.395	
Total Xylenes*	<0.150	0.150	10/25/2013	ND	5.87	97.8	6.00	0.0827	
Total BTEX	<0.300	0.300	10/25/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIE	103	% 89.4-12	б						
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	10/25/2013	NÐ	185	92.3	200	0.942	
DRO >C10-C28	<10.0	10.0	10/25/2013	ND	173	86.6	200	1.03	

Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

88.2 %

63.6-154

*=Accredited Analyte

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Celuz D. Kene

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-5 2' (H302569-08)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/25/2013	ND	1.89	94.4	2.00	0.364	
Toluene*	<0.050	0.050	10/25/2013	ND	1.94	97.1	2.00	0.484	
Ethylbenzene*	<0.050	0.050	10/25/2013	ND	1.95	97.7	2.00	0.395	
Total Xylenes*	<0.150	0.150	10/25/2013	ND	5.87	97,8	6.00	0.0827	
Total BTEX	<0.300	0.300	10/25/2013	ND					
Surrogate: 4-Bromofluorobenzene (PIL	104 %	% 89.4-12	6				· · · · · · ·		
ТРН 8015М	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/25/2013	ND	185	92.3	200	0.942	
DRO >C10-C28	<10.0	10.0	10/25/2013	ND	173	86.6	200	1.03	

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Surrogate: 1-Chlorooctane

Surrogate: 1-Chlorooctadecane

82.0 %

86.8 %

65.2-140

63.6-154

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Celeg D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-6 1' (H302569-09)

mg,	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
0.365	0.200	10/25/2013	ND	1.89	94.4	2.00	0.364	
2.63	0.200	10/25/2013	ND	1.94	97.1	2.00	0.484	
1.01	0.200	10/25/2013	ND	1.95	97.7	2.00	0.395	
7.61	0.600	10/25/2013	ND	5.87	97.8	6.00	0.0827	
11.6	1.20	10/25/2013	ND					
	Result 0.365 2.63 1.01 7.61	0.365 0.200 2.63 0.200 1.01 0.200 7.61 0.600	Result Reporting Limit Analyzed 0.365 0.200 10/25/2013 2.63 0.200 10/25/2013 1.01 0.200 10/25/2013 7.61 0.600 10/25/2013	Result Reporting Limit Analyzed Method Blank 0.365 0.200 10/25/2013 ND 2.63 0.200 10/25/2013 ND 1.01 0.200 10/25/2013 ND 7.61 0.600 10/25/2013 ND	Result Reporting Limit Analyzed Method Blank BS 0.365 0.200 10/25/2013 ND 1.89 2.63 0.200 10/25/2013 ND 1.94 1.01 0.200 10/25/2013 ND 1.95 7.61 0.600 10/25/2013 ND 5.87	Result Reporting Limit Analyzed Method Blank BS % Recovery 0.365 0.200 10/25/2013 ND 1.89 94.4 2.63 0.200 10/25/2013 ND 1.94 97.1 1.01 0.200 10/25/2013 ND 1.95 97.7 7.61 0.600 10/25/2013 ND 5.87 97.8	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC 0.365 0.200 10/25/2013 ND 1.89 94.4 2.00 2.63 0.200 10/25/2013 ND 1.94 97.1 2.00 1.01 0.200 10/25/2013 ND 1.95 97.7 2.00 7.61 0.600 10/25/2013 ND 5.87 97.8 6.00	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD 0.365 0.200 10/25/2013 ND 1.89 94.4 2.00 0.364 2.63 0.200 10/25/2013 ND 1.94 97.1 2.00 0.484 1.01 0.200 10/25/2013 ND 1.95 97.7 2.00 0.395 7.61 0.600 10/25/2013 ND 5.87 97.8 6.00 0.0827

Surrogate: 4-Bromofluorobenzene (PIL 119 % 89.4-126

TPH 8015M	mg	/kg	Analyze	d By: MS					·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	152	10.0	10/25/2013	ND	185	92.3	200	0.942	
DRO >C10-C28	414	10.0	10/25/2013	ND	173	86.6	200	1.03	

Surrogate: 1-Chlorooctadecane 95.0 % 63.6-154

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Celey D.Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-6 2' (H302569-10)

Surrogate: 4-Bromofluorobenzene (PIL

Surrogate: 1-Chlorooctadecane

178 %

97.2 %

89.4-126

63.6-154

BTEX 8021B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.184	0.050	10/25/2013	ND	1,89	94.4	2.00	0,364	
Toluene*	2,35	0.050	10/25/2013	ND	1.94	97.1	2.00	0.484	
Ethylbenzene*	1.13	0.050	10/25/2013	ND	1.95	97.7 [.]	2.00	0.395	
Total Xylenes*	8.64	0.150	10/25/2013	ND	5.87	97.8	6.00	0.0827	
Total BTEX	12.3	0.300	10/25/2013	ND					

ТРН 8015М	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	133	10.0	10/25/2013	ND	185	92.3	200	0.942	
DRO >C10-C28	410	10.0	10/25/2013	ND	173	86.6	200	1.03	

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Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/23/2013	Sampling Date:	10/23/2013	
Reported:	10/29/2013	Sampling Type:	Soil	•
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact	
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson	
Project Location:	NOT GIVEN			

Sample ID: S-7 0' (H302569-11)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	, Qualifier
Benzene*	<0.050	0.050	10/25/2013	ND	1.89	94.4	2.00	0.364	
Toluene*	0.103	0.050	10/25/2013	ND	1.94	97.1	2.00	0.484	
Ethylbenzene*	0,116	0.050	10/25/2013	ND	1.95	97.7	2.00	0.395	
Total Xylenes*	0.910	0.150	10/25/2013	ND	5.87	97.8	6.00	0.0827	
Total BTEX	1.13	0.300	10/25/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL 129 % 89.4-126

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	10/29/2013	ND	400	100	400	3.92	
TPH 8015M	mg	/kg	Analyze	d By: MS			<u> </u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	32,2	10,0	10/25/2013	ND	185	92.3	200	0.942	
DRO >C10-C28	756	10.0	10/25/2013	NÐ	173	86.6	200	1.03	
Surrogate: 1-Chlorooctane	101	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	104	63.6-15	4						

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Celey D.Kune

Celey D. Keene, Lab Director/Quality Manager



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Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-7 1' (H302569-12)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	9.63	1.00	10/28/2013	ND	1.89	94.4	2.00	0.364	
Toluene*	97.2	1.00	10/28/2013	ND	1.94	97.1	2.00	0.484	
Ethylbenzene*	23,4	1.00	10/28/2013	ND	1.95	97.7	2.00	0.395	
Total Xylenes*	172	3.00	10/28/2013	ND	5.87	97.8	6.00	0.0827	
Total BTEX	302	6.00	10/28/2013	ND					

Surrogate: 4-Bromofluorobenzene (PIL TPH 8015M]72 mg,			d By: MS					S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	2800	10.0	10/25/2013	ND	185	92.3	200	0.942	
DR0 >C10-C28	3580	10.0	10/25/2013	ND	173	86.6	200	1.03	

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Surrogate: 1-Chlorooctadecane

132 %

63.6-154

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Celeg D. Kere

Celey D. Keene, Lab Director/Quality Manager



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

Received:	10/23/2013	Sampling Date:	10/23/2013
Reported:	10/29/2013	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: S-7 2' (H302569-13)

BTEX 8021B	mg/kg		Analyzed By: MS						S-04
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	0.063	0.050	10/28/2013	ND	1.89	94.4	2.00	0.364	
Toluene*	3,62	0.050	10/28/2013	ND	1.94	97.1	2.00	0.484	
Ethylbenzene*	2.50	0.050	10/28/2013	ND	1.95	97.7	2.00	0.395	
Total Xylenes*	19.4	0.150	10/28/2013	ND	5.87	97.8	6.00	0.0827	
Total BTEX	25.6	0.300	10/28/2013	ND					
			-						

Surrogate: 4-Bromofluorobenzene (PIL 256 % 89.4-126

TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	379	10.0	10/25/2013	ND	185	92.3	200	0.942	
DRO >C10-C28	932	10.0	10/25/2013	ND	173	86.6	200	1.03	
Surrogate: 1-Chlorooctane	932			ND	1/3	86.6	200	1.03	

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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Celay D.Kune

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
S-04	The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
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. Keine

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

	101 East Marland, Hobbs, NM 882 (575) 393-2326 FAX (575) 393-247			<u> </u>	·.··	".	
Company Name	"Talon/LPE		BILL TO		ANALYSIS	REQUEST	
	r: K, Vilson		P:O. #:				
	W. Texas Ave	 	Company: Talon/LP	<u>^E </u>			
City: Art-csi		Zip: 88210	Atin:				
Phone #: 575-	-746-8768 Far #: 575	-746-8905	Address:				
Project #:	Project Owner	: Dovon	City:				
Project Name:	Snapping 10 Fed #1	· · · · · · · · · · · · · · · · · · ·	State: Zip:				
Project Location	n:	···	Phone #:				
Sampler Name:	5. Hitchcock	•	Fax #:				
FOR LAB USE ONLY		MATRIX	PRESERV SAMPLING	3			
-		S C C					
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER WASTEWATER SOIL OIL SLUDGE	A: ASSE: COOL	P H T E X		•	
1302500		(G)RAB D # CONTAI GROUND WASTEW SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE/COOL OTHER: ATVD	TIME F			
	5 - 1 1	61	10/23/13 11	:2] //			
<u> </u>	5-12	GI		:25			
3	5-3.1	61		:21 //			
<u> </u>	5-32	6 1 1		:36			
S	<u><u>s</u> ~ <u>Y</u> <u>I</u>'</u>	61		140 /			
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7	5-51	61	┝╌║╌╎╱╎╌╿╴╲╴╴║╿	52		· _	
- G	<u>5-52</u>	G [55			
	$5 \sim 6 1$	GI	- / /7				
PLEASE NOTE: Liability an	d Damages. Cardinal's liability and client's exclusive remedy for a	ny claim arising whether based in contract	or lort, shall be limited to the amount paid by	the client for the			
service. In no event shall C	ng lhose for negligence and any other cause wholsoever shall be a ardinet be liable for incidental or consequented damages, including	without Imitation, business interruptions,	loss of use, or loss of profits incurred by client	, ils subsidiaries,	· · ·		
Relinguished By	na out of or related to the performance of services hereunder by O	Repeived By:	· · PI	none Result: 🗆 Yes			
		Indi M		ax Result:			
Indan	Jun 13:35	your se	uner			•	
nconojuisneo 2)	Date:	Received By:		e 1		,	
	Time:						
Delivered By:	: (Circle One)	Sample Condit	ion CHECKED BY:				
	- Bus - Other:					·	
† Cardinal	cannot accept verbal changes. Please	fax written changes to	505-393-2478		j.		• • • •



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page

101 East Marland, Hobbs, NM 88240 (575) 393-2326, FAX (575) 393-2476		
Company Name: Talon /LPE	BILL TO	ANALYSIS REQUEST
Project Manager: K, Willson	P.O. #:	
Address: 408 W. Texas Ave	Company: Talon/LPE	
City: Art-chia State: NM Zip: 88210	Atin:	
Phone #: 575-746-8768 Fax #: 575-746-8905:	Address:	
Project #: Project Owner: D C VON	City:	
Project Name: Snapping 10 Frd #1	State: Zip:	
Project Location:	Phone #:	
Sampler Name: S. Hitchcolk	Fax #:	
FOR LAB USE ONLY MATRI	PRESERV, SAMPLING	5
Tap I.D. Sample I.D. (G)RAB OR (C)OMP- GROUNDWATER & CONTAINERS Soll.		
Lab I.D. Sample I.D. Los I.C. (GINARD OR IC) CONTAINERS		17EX NTEX
	ER : COC	T ^{2H} BTEX Chlon
H302489	OTHER: ACIDIBASE ACIDIBASE ACIDIBASE ACIDIBASE ACIDIBASE	H 🖂 🛛 📋 👘 👘
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12 5-71 61 1	10/23/13 12/19	
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service. In no event shall Cardinal be liable for incidental or consequental domages, including without limitation, business interrup pilitiates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such	aim is based upon any of the above stated reasons or otherwise.	
Relinquished By:	h Phone Result	t:
Stelding Are - 13:35 4 Cu -	KEMON REMARKS:	· .
Relinquished By: Date: Received By:		9
Time:		
Delivered By: (Circle One) Sample Co	dition CHECKED BY:	•
Sampler - UPS - Bus - Other: 4.89 Ures No	res (nitional)	

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-247



February 05, 2014

DAVID ADKINS TALON LPE 408 W. TEXAS AVE. ARTESIA, NM 88210

RE: SNAPPING #10 FED #1

Enclosed are the results of analyses for samples received by the laboratory on 01/29/14 15:07.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 accredited certif.html.

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 (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,

Celez D. Keine

Celey D. Keene Lab Director/Quality Manager



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

Received:	01/29/2014	Sampling Date:	01/29/2014
Reported:	02/05/2014	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	700794.075.01	Sample Received By:	Kathy Perez
Project Location:	H-S10-T26S-R31E		

Sample ID: S-3 2.5' (H400289-01)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2014	ND	2.13	107	2.00	1.01	
Toluene*	0.112	0.050	02/03/2014	ND	2.09	105	2.00	0.344	
Ethylbenzene*	0.067	0.050	02/03/2014	ND	2.10	105	2.00	0.0620	
Total Xylenes*	0.674	0.150	02/03/2014	ND	6.12	102	6.00	0.0129	
Total BTEX	0.853	0.300	02/03/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	117	% 89.4-12	6						
TPH 8015M	mg,	/kg	Analyze	d By: ms			· ·		<u> </u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/31/2014	ND	218	109	200	10.7	
DRO >C10-C28	46.0	10.0	01/31/2014	ND	225	112	200	14.2	
Surrogate: 1-Chlorooctane	80.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	84.7	% 63.6-15	4						

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*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



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

Received:	01/29/2014	Sampling Date:	01/29/2014
Reported:	02/05/2014	Sampling Type:	Soil
Project Name:	SNAPPING #10 FED #1	Sampling Condition:	Cool & Intact
Project Number:	700794.075.01	Sample Received By:	Kathy Perez
Project Location:	H-S10-T26S-R31E		

Sample ID: S-4 2.5' (H400289-02)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					<u></u>
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/03/2014	ND	2.13	107	2.00	1.01	
Toluene*	0.156	0.050	02/03/2014	ND	2.09	105	2.00	0.344	
Ethylbenzene*	0.068	0.050	02/03/2014	ND	2.10	105	2.00	0.0620	
Total Xylenes*	0.566	0.150	02/03/2014	ND	6.12	102	6.00	0.0129	
Total BTEX	0.789	0.300	02/03/2014	ND					
Surrogate: 4-Bromofluorobenzene (PID	115 9	% 89.4-12	6						
TPH 8015M	mg,	′kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	01/31/2014	ND	218	109	200	10.7	
DRO >C10-C28	15.8	10.0	01/31/2014	ND	225	112	200	14.2	
Surrogate: 1-Chlorooctane	75.0	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	78.8	% 63.6-15	4						

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

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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 $6^{\circ}C$
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Page

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476		
Company Name: Talon /LPE.	BILL TO	ANALYSIS REQUEST
Project Manager: K. Wilson	P.O. #:	
Address: 408 W. Texas Ave	Company: Talon/LPE	
City: Art-chia State: NM Zip: 88210	Atin:	
Phone #: 575-746-8768 Fax #: 575-746-8905	Address:	
Project #: 700 794.07.5.0 Project Owner: DEVON	City:	
Project Name: Shapping 10 Fed #1	State: Zip:	
Project Location: H - 510-7265-R31E	Phone #:	
Sampler Name: S, Hitch Lock	Fax #:	
FOR LAB USE ONLY MATRIX	PRESERV. SAMPLING	
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Lab I.D. Sample I.D.		
Tap I'D Sample I'D Page 1'D Sample I'D	A OTHER: A CID/BASE: DTHER: A DTHER: A DTHER:	\mathcal{H} \mathbf{a} $
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à 6-42,5' GI	1-29-14 11:57	
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attliates or successors arising out of or related to the performance of services hereunfer by Cordinal, recorders of whether such data Relinguished By: Q. IV Received By:	Phone Resul	ult: Yes No Add'l Phone #:
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	12711			Fax Result:	O Yes	O No	Add'l Fax #:			
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Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

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SEEDING LABEL

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-Curtis & Curtis, Inc 4500 North Prince Clavis TM 88130 Phone: (375)/7624	.,	· · · ·	.* . `	, [↓] ₫.			
	1 _N/	1/2 Acre B 2 Acre Bag Job: Devo	on / LPE, L' LM #2, Bros ; @ 17.13 Bu in Snapping 60-015-2960; H-10-26-31 00794.075.0	idcast Rafe lk Pounds E 10 Fed #1 5	lach).	<i>II</i> •	14
Lot# M-11971						•	
Item	Origin	Purity	Germ	Dormant	<u>Germ &</u> Dormant	<u>Têst</u> Dâte	Total PLS Pounds
Sand Dropseed * VNS	Colorado	12.16%	22.00%	74.00%	96.00%	12/13	2.00
Little Bluestem Aldous	Nebraska	19.04%	54.00%	38.00%	92.00%	11/13	3.00
Corespise . Plains	Oregun	14.07%	83.00%	0.00%	\$3.00%	11/13	2.00
Sideoats Grama	Texas	19.25%	13.00%	78:00%	91.00%	09/13	3.00
Vaughn i' Indian Ricegrass Paloma	· Colcrado	12,56%	3.00%	90.00%	93.00%	12/13	2.00
Weed Seed: . 0	.00% The 0.03% This 0.89% Use	rć, Are 1 B s Bag Weig This Bag F	g For ⁷ This 1 hs 17.13 Bul or 1/2 Acres	/lix k Pounds	Total B	šulk Pound	ls: .17 ′
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FINAL C-141

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District II Conservation Division Submit 2 Copies to appropriate District Office in accordance	District I 1(25 N. French <u>Uistriot</u> II 1301 W. Graod				State of New Mexico Energy Minerals and Natural Resources					Form C-141 Rovised March 17, 1999			
Dates Dr. 1220 Sorth St. Francis Dr. with Rais 116 on back sold of form Starte Fo., NM 87505 Starte Fo., NM 87505 Starte Fo., NM 87505 Release Notification and Corrective Action OPERATOR Initial Roport Final Report Nature of Company Devon Energy Context Tracy Kidd Address F. O. Box 250 Contract Tracy Kidd Address F. O. Box 250 Starta Co. Mr. Address F. O. Box 250 Contract Tracy Kidd Address F. O. Box 250 Intract Owner API address for the start form form the start form the start form form form the start form form the start form form the start form form form form form form form form	District III							Submit 2 Copies to appropriate District Office in accordance					
Name FC, FOR 3700 Nelsase Notification and Corrective Action OPERATOR Initial Report Final Report Name of Corrupany Devon Energy Contact Tracy Kidd Address P. O. Box 230 .:clephone No. 5/5-513-0628	District IV 1220 Sou						uth St. Francis Dr. with Rule 116 on bac						
OPERATOR □ Initial Report ☑ Final Report Name of Company Devon Linergy Contact Tracy Kidd Address P. O. Box 220	1220 5, 51, 1144						A second s						
Name of Company Devon Energy Contact Tracy Kidd Address P. O. Box 250 Clephone No. 5/5-513-0628 Artesia, N.M. 88211 Facility Type Oil Wel. Surface Owner Mineral Owner Surface Owner Mineral Owner Diff Later Section Township Range Ferform the North/Soch Line Pace Internet Township Range Ferform the North/Soch Line Feef from the North/Soch Line Duff Later Section Township Range Ferform the North/Soch Line Duff Later Section Township Range Ferform the North/Soch Line Source or Release: Poly line bak Volume Arteria Packase Visu Inmeditize Notice Given? Not North Clear J Cocrame Destead Hour of Disovery 92913, 390 AM Was Inmeditize Notice Given? No Yes In No No Keeptind Yes Z No If YES, Volumo Inpecting the Watercourse. Yes Whon* Aaren Kidd Date and Hour: 10/1/3, 8:45 AM Was a Watercourse was Impacted, Desorable Puly * NA NA Preve Crift Que the Section of Taken ** A print file lecked causing c recease of 1C Larels of naixed fields. No fuic ware receared to a danap				Rele				orrective A					
Address P. O. Box 250		~			<u> </u>			m 11	Initial Re	port 🔀 Final Report			
Artesia, NM 88211 Facility Name: Snapping 10 Federal 1H Facility Type Oil Wel. Surface Owner Mineral Owner API #: 30-015-37899 2RP-1975 Junit Later Section Township Range Feetfrom the 300" North/South Line Feet from the 1980" LOCATION OF RELEASE Unit Later Section Township Range Feetfrom the 300" North Feet from the 1980" East West Line County East Surface Owner Internet North/South Line Feet from the 1980" East County East DDDY NATURE OF RELEASE Date and Icur of Ocearree Source of Release : Poly line bak Date mol Icur of Ocearree Date and Icur of Ocearree Date and Icur of Ocearree Date and Icur of Ocearree By Whom* Aarce Kidd Date and Icur of Icur of Ocearree Date and Icur of Ocearree If YES, Volume Inpacting the Watercourse. If a Watercourse was Impacted, Dencific Puly.* No If YES, Volume Impacting the Watercourse. To flow was contracted to a depth of 2.5 feet depa and match inte sequely. N/A Describe Cruse of Problem and Remedia Action Taken.* A poly line lecked causing a recease of 16 Larels o				nargy	·				13.0678				
Facility Name: Surface Owner Mineral Owner API #: 30-015-37889 Surface Owner Mineral Owner API #: 30-015-37889 2RP-1975 Drift Later Section Township Range Peerfrom the	-					. capiton	5140, DIS-3	10-0020					
2RP-1975 LOCATION OF RELEASE Dail Latter Seation Township Range Seation the North/Sould Line Feet from the Esst/West Line County B 10 26.8 31B 30° North Peet from the Esst/West Line County NATURE OF RELEASE Type or Release: Mix Fluids Volume of Release: Or bith Volume of Release: Or bith Source of Release: Poly line lock Date and Hour Of Disowary 9/29/13, 9/20/04. Source of Release: Poly line lock Date and Hour Of Disowary 9/29/13, 9/20/04. 3/20/04. Was Immediate Notice Given? Yes Not Not Required Date and Hour 10/1/.3, 8/35 AM Was a Writercourse Resched? Yes No If YES, Volumo Impacting the Watercourse. If YES, Volumo Impacting the Watercourse. Yf a Watercourse was (Impacted, Describe Purity.* N/A Describe Area of Problem and Remedia. Action Taken.* A poly line lecked causing a release of 16 bards area from this release to the searce of the bards area from the selese was accertated on the selese was contracted for the source area was takefilled to grade uning new material, contoured to match in the earting and the area of the subards area from this release and the same difficat for the from the				Federal	1 H		Sacility T	ype Oil Wel					
Unit: Latter Section Township Range Feet from the North/South Line Feet from the 1980* East West Line County HDDY NATURE OF RELIFASE Type to Release: Mix Huids Volume Recovered - 0 hvin Source of Release: Mix Huids Volume Recovered - 0 hvin Source of Release: Mol Huids Value of Release: Mol Huids Volume Recovered - 0 hvin Source of Release: Mol Huids Value of Release: Mol Huids Volume Recovered - 0 hvin Source of Release: Notice Given? Wis Immediate Notice Given? If YES, To Whom? OD/ Mike Bratchar & BLM/Jeffery Robertson By Whom* Aaron Kidd Date and Heur: 10/1/.3, 8:45 AM Was a Watercourse Reschef? Yes [] No If YES, Volume Impacting the Watercourse. If a Watercourse was Impacted, Describe Fully.* N/A No If Yes [] No If a Watercourse of Problem and Remedia. Action Taken.* A poly line lecked causing c release of 10 Larrels of mixed fluids. Fo Entits ware covered to hold the dot of 2-feet deep and analytical testing was cortracter for the conversion was tackfilled to grade using new materia; contoured to match the and mold of 2-feet deep and analytical testing was cortracter for the conversion was tackfilled to grade u	Surface O	wner			Mineral	Owne	ner API #: 30-015-37899						
Unit: Latter Section Township Range Feet from the North/South Line Feet from the 1980* East West Line County HDDY NATURE OF RELIFASE Type to Release: Mix Huids Volume Recovered - 0 hvin Source of Release: Mix Huids Volume Recovered - 0 hvin Source of Release: Mol Huids Value of Release: Mol Huids Volume Recovered - 0 hvin Source of Release: Mol Huids Value of Release: Mol Huids Volume Recovered - 0 hvin Source of Release: Notice Given? Wis Immediate Notice Given? If YES, To Whom? OD/ Mike Bratchar & BLM/Jeffery Robertson By Whom* Aaron Kidd Date and Heur: 10/1/.3, 8:45 AM Was a Watercourse Reschef? Yes [] No If YES, Volume Impacting the Watercourse. If a Watercourse was Impacted, Describe Fully.* N/A No If Yes [] No If a Watercourse of Problem and Remedia. Action Taken.* A poly line lecked causing c release of 10 Larrels of mixed fluids. Fo Entits ware covered to hold the dot of 2-feet deep and analytical testing was cortracter for the conversion was tackfilled to grade using new materia; contoured to match the and mold of 2-feet deep and analytical testing was cortracter for the conversion was tackfilled to grade u		LOCATION OF RELEASE											
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9/29/13, 3:00 AM 3:00 AM Was Immedia:e Notice Given? If YES, To Whom? OCD / Mike Bratcher & BLM/Jeffery Robertson By Whom? Aaron Kidd Date and Hear: 10/1/3, 3:45 AM Was a Watercourse Reacher? If YES, Yolume Impacting the Watercourse. If a Watercourse was Impacted, Describe Puly.* If YES, Yolume Impacting the Watercourse. N/A If YES, Yolume Impacting the Watercourse. Describe Cause of Problem and Remedia: Action Taken.* A poly line lecked causing a release of 16 barrels of mixed fluids. No Emics waverxuvered. The line was isolated, replaced and put back into service. Describe Area Affected and Clemup Action Taken.* The on restrice for the convection of this misses. The impacted area from this celease was accevated to a depth of 2.5-feet depend and any time it testing was completed. The excavation was tackfilled to grade using new material, contoured to match the surrourding location and seeded on Hebritary 11, 2014 using BLM seed mix #2. Thereby cerify that the information given above is true and omplete to the bost of my knowledge and undestand that pursuent to NMOCD trules and provember explanets which may ocideage required to report and/or fluid entertion of the struct was a final to approach water, crifted water, criftence water, human health or the environment. In addition, NMOCD more dista contantiation that pose and water, criftence water, human health or the environment. In addition, NMOCD mergetate of a front departed provement water and the support of tability error operator of tability and other approach water, criftence water, human health or the environment. In addition							Volume of	Release O bhis					
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Image:	By Whom [*]	Aaron Kidd	- 10										
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^c Attach Additional Sheets If Necessary

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