



September 17, 2013

Mr. Geoffrey Leaking
NMOCD District 1
1625 N. French Drive
Hobbs, NM 88240

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Amarillo, Texas 79107
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Subject: **Soil Assessment and Remediation Work Plan**
Cameron Oil & Gas Inc.
Federal 6 No. 1
API # 30-025-27739

Dear Mr. Leaking,

Cameron Oil & Gas Inc. has contracted Talon/LPE (Talon) to perform soil assessment and remediation services at the referenced Federal 6 No. 1 release. The results of our soil assessment and proposed remediation activities consist of the following:

Incident Date

July 22, 2013

Background Information

The Federal 6 No. 1 is located approximately forty-five (45) miles East of Artesia, New Mexico. The legal location for the site is Section 6, Township 18 South and Range 33 East in Lea County, New Mexico. More specifically, the latitude and longitude for the release are 32.773663 North and - 103.707825 West. A site plan is presented in [Appendix I](#).

According to the soil survey provided by the United States Department of Agriculture National Resources Conservation Service, the soil in this area is made up of Pyote and Maljamar fine sands. The local surface and shallow geology is Quaternary in age and is comprised of sandy eolian deposits derived from sedimentary rock including silty soils underlain with a sandy clay loam and cemented material. The New Mexico State Engineer web site indicates the nearest ground water data to be in S8-T18S-R33E. The ground water in Section 1 is reported to be a depth of 100' below ground surface (bgs). See [Appendix II](#) for the referenced groundwater data.

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

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

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Incident Description

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A valve on the back of a tank leaked causing a release of approximately 120 barrels (bbls) of mixed fluids. The fluid flowed from the tank battery across the location, into the pasture and continued to a distance of approximately 675-feet from the tank battery. A total of 70bbls of fluid was recovered with vacuum trucks. A site plan is presented in [Appendix I](#)

Laboratory Results

See [Appendix III](#) for complete report of laboratory results.

Sample ID	Depth (feet)	BTEX (mg/kg)	Chlorides (mg/kg)	TPH (mg/kg) GRO	TPH (mg/kg) DRO
S-1	0	164	2160	8840	70500
S-1	1	6.02	1880	68.9	535
S-1	2	ND	2240	ND	11
S-1	3	ND	3160	ND	ND
S-1	6	--	1230	--	--
S-1	8	--	1090	--	--
S-1 Refusal	10	--	1440	--	--
S-2	0	ND	32	ND	ND
S-2	1	ND	48	ND	ND
S-3	0	ND	ND	ND	ND
S-3	1	ND	ND	ND	ND
S-3	2	ND	ND	ND	ND
S-3	3	ND	ND	ND	ND
S-4	0	ND	208	ND	ND
S-4	1	ND	48	ND	ND
S-5	0	ND	ND	ND	ND
S-5	1	ND	ND	ND	ND
S-6	0	ND	ND	ND	ND
S-6	1	ND	ND	ND	ND
S-6	2	ND	ND	ND	ND
S-7	0	ND	ND	ND	ND
S-7	1	ND	ND	ND	ND
S-7	2	ND	ND	ND	ND
S-8	0	ND	ND	ND	ND
S-8	1	ND	ND	ND	ND
S-9	0	ND	ND	ND	ND
S-9	1	ND	ND	ND	106

(--) Analyte not tested

(ND) Analyte not detected

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

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Proposed Remedial Actions

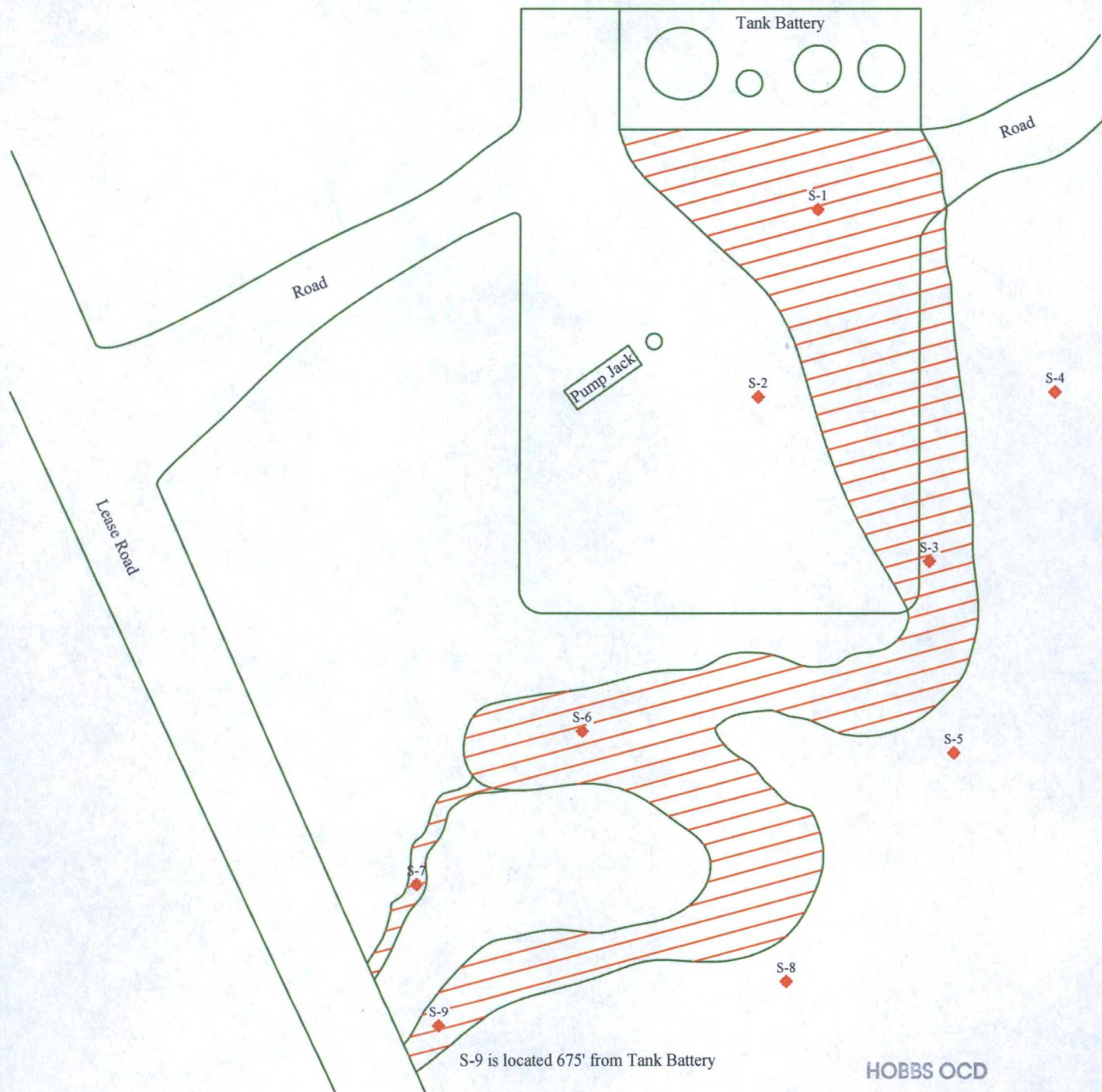
- The impacted area on location (in the vicinity of S-1) will be excavated to a depth of 4-feet bgs.
- The excavated material will be hauled to an NMOCD approved solid waste disposal facility.
- A 20-mil reinforced liner will be installed in the bottom of the excavated at a depth of 4-feet bgs.
- The excavated area will be backfilled with caliche and contoured to match the surrounding location..

Should you have any questions or if further information is required, please do not hesitate to contact our office at (575)-746-8768

Respectfully submitted,


Sheldon Hitchcock
Environmental Scientist


David J. Adkins
District Manager



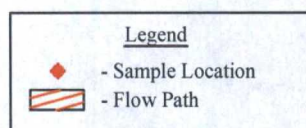
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NTS
Scale in Feet



Date: 08/30/2013

Scale: NTS

Drawn By: TJS

Cameron Oil & Gas Fed 6 #1
Cameron Oil & Gas Inc.
Eddy County, New Mexico
Figure 1 - Site Plan



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-Code	basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
<u>L 06131</u>	L		LE	3	1	2	08	18S	33E	623241	3626167*	2504	194	100	94

Average Depth to Water: 100 feet

Minimum Depth: 100 feet

Maximum Depth: 100 feet

Record Count: 1

UTMNAD83 Radius Search (in meters):

Easting (X): 620802

Northing (Y): 3626735

Radius: 3000

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*UTM location was derived from PLSS - see Help

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



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

August 09, 2013

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: FEDERAL 6 WELL #1

Enclosed are the results of analyses for samples received by the laboratory on 08/05/13 15:00.

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/qa/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

A handwritten signature in black ink that reads "Celey D. Keene".

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

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 Received: 08/05/2013
 Reported: 08/09/2013
 Project Name: FEDERAL 6 WELL #1
 Project Number: 701683.001.01
 Project Location: NOT GIVEN

 Sampling Date: 08/02/2013
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S-1 0' (H301829-01)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<5.00	5.00	08/07/2013	ND	2.40	120	2.00	1.11	
Toluene*	24.1	5.00	08/07/2013	ND	2.31	115	2.00	4.13	
Ethylbenzene*	36.9	5.00	08/07/2013	ND	2.26	113	2.00	4.02	
Total Xylenes*	103	15.0	08/07/2013	ND	6.56	109	6.00	2.94	
Total BTEX	164	30.0	08/07/2013	ND					

 Surrogate: Dibromofluoromethane 99.2 % 61.3-142
 Surrogate: Toluene-d8 99.4 % 71.3-129
 Surrogate: 4-Bromofluorobenzene 121 % 65.7-141

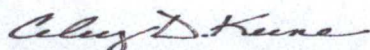
Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2160	16.0	08/08/2013	ND	432	108	400	3.77		
TPH 8015M		mg/kg		Analyzed By: MS						
				S-06						

 Surrogate: 1-Chlorooctane 678 % 65.2-140
 Surrogate: 1-Chlorooctadecane 875 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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DAVID ADKINS
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ARTESIA NM, 88210
Fax To: (575) 745-8905

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RECEIVED

Received: 08/05/2013
Reported: 08/09/2013
Project Name: FEDERAL 6 WELL #1
Project Number: 701683.001.01
Project Location: NOT GIVEN

Sampling Date: 08/02/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 1' (H301829-02)

BTEX 8260B		mg/kg	Analyzed By: MS					S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/07/2013	ND	2.40	120	2.00	1.11	
Toluene*	0.608	0.050	08/07/2013	ND	2.31	115	2.00	4.13	
Ethylbenzene*	1.34	0.050	08/07/2013	ND	2.26	113	2.00	4.02	
Total Xylenes*	4.07	0.150	08/07/2013	ND	6.56	109	6.00	2.94	
Total BTEX	6.02	0.300	08/07/2013	ND					

Surrogate: Dibromofluoromethane 97.5 % 61.3-142

Surrogate: Toluene-d8 102 % 71.3-129

Surrogate: 4-Bromofluorobenzene 197 % 65.7-141

Chloride, SM4500Cl-B		mg/kg	Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1880	16.0	08/08/2013	ND	432	108	400	3.77	

TPH 8015M		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	68.9	50.0	08/07/2013	ND	177	88.3	200	1.38	
DRO >C10-C28	535	50.0	08/07/2013	ND	193	96.4	200	3.30	

Surrogate: 1-Chlorooctane 102 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

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Received: 08/05/2013
Reported: 08/09/2013
Project Name: FEDERAL 6 WELL #1
Project Number: 701683.001.01
Project Location: NOT GIVEN

Sampling Date: 08/02/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 2' (H301829-03)

BTEX 8260B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/07/2013	ND	2.40	120	2.00	1.11		
Toluene*	<0.050	0.050	08/07/2013	ND	2.31	115	2.00	4.13		
Ethylbenzene*	<0.050	0.050	08/07/2013	ND	2.26	113	2.00	4.02		
Total Xylenes*	<0.150	0.150	08/07/2013	ND	6.56	109	6.00	2.94		
Total BTEX	<0.300	0.300	08/07/2013	ND						

Surrogate: Dibromofluoromethane 97.2 % 61.3-142

Surrogate: Toluene-d8 99.9 % 71.3-129

Surrogate: 4-Bromofluorobenzene 108 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2240	16.0	08/08/2013	ND	432	108	400	3.77	

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	08/07/2013	ND	177	88.3	200	1.38	
DRO >C10-C28	11.0	10.0	08/07/2013	ND	193	96.4	200	3.30	

Surrogate: 1-Chlorooctane 87.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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ARTESIA NM, 88210
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Received: 08/05/2013
Reported: 08/09/2013
Project Name: FEDERAL 6 WELL #1
Project Number: 701683.001.01
Project Location: NOT GIVEN

Sampling Date: 08/02/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 3' (H301829-04)

BTEx 8260B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/07/2013	ND	2.40	120	2.00	1.11		
Toluene*	<0.050	0.050	08/07/2013	ND	2.31	115	2.00	4.13		
Ethylbenzene*	<0.050	0.050	08/07/2013	ND	2.26	113	2.00	4.02		
Total Xylenes*	<0.150	0.150	08/07/2013	ND	6.56	109	6.00	2.94		
Total BTEx	<0.300	0.300	08/07/2013	ND						

Surrogate: Dibromofluoromethane 95.0 % 61.3-142

Surrogate: Toluene-d8 99.8 % 71.3-129

Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	3160	16.0	08/08/2013	ND	432	108	400	3.77		

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	08/07/2013	ND	177	88.3	200	1.38		
DRO >C10-C28	<10.0	10.0	08/07/2013	ND	193	96.4	200	3.30		


Surrogate: 1-Chlorooctane 90.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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Received: 08/05/2013
Reported: 08/09/2013
Project Name: FEDERAL 6 WELL #1
Project Number: 701683.001.01
Project Location: NOT GIVEN

Sampling Date: 08/02/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 0' (H301829-05)

BTEX 8260B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/07/2013	ND	2.40	120	2.00	1.11		
Toluene*	<0.050	0.050	08/07/2013	ND	2.31	115	2.00	4.13		
Ethylbenzene*	<0.050	0.050	08/07/2013	ND	2.26	113	2.00	4.02		
Total Xylenes*	<0.150	0.150	08/07/2013	ND	6.56	109	6.00	2.94		
Total BTEX	<0.300	0.300	08/07/2013	ND						

Surrogate: Dibromofluoromethane 99.0 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	32.0	16.0	08/08/2013	ND	432	108	400	3.77		

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	08/07/2013	ND	177	88.3	200	1.38		
DRO >C10-C28	<10.0	10.0	08/07/2013	ND	193	96.4	200	3.30		

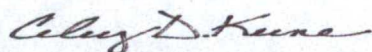
Surrogate: 1-Chlorooctane 92.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 113 % 63.6-154

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

TALON LPE
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ARTESIA NM, 88210
Fax To: (575) 745-8905

HOBBS OCD

SEP 27 2013

RECEIVED

Received: 08/05/2013
Reported: 08/09/2013
Project Name: FEDERAL 6 WELL #1
Project Number: 701683.001.01
Project Location: NOT GIVEN

Sampling Date: 08/02/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-2 1' (H301829-06)

BTEX 8260B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2013	ND	2.40	120	2.00	1.11	
Toluene*	<0.050	0.050	08/08/2013	ND	2.31	115	2.00	4.13	
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.26	113	2.00	4.02	
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.56	109	6.00	2.94	
Total BTEX	<0.300	0.300	08/08/2013	ND					

Surrogate: Dibromofluoromethane 96.6 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 106 % 65.7-141

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/08/2013	ND	432	108	400	3.77	

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	08/07/2013	ND	177	88.3	200	1.38	
DRO >C10-C28	<10.0	10.0	08/07/2013	ND	193	96.4	200	3.30	

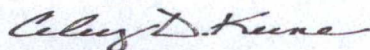
Surrogate: 1-Chlorooctane 94.8 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

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Analytical Results For:

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

HOBBS OCD

SEP 27 2013

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Received: 08/05/2013
Reported: 08/09/2013
Project Name: FEDERAL 6 WELL #1
Project Number: 701683.001.01
Project Location: NOT GIVEN

Sampling Date: 08/02/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 0' (H301829-07)

BTEx 8260B			mg/kg								Analyzed By: MS	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier			
Benzene*	<0.050	0.050	08/08/2013	ND	2.40	120	2.00	1.11				
Toluene*	<0.050	0.050	08/08/2013	ND	2.31	115	2.00	4.13				
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.26	113	2.00	4.02				
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.56	109	6.00	2.94				
Total BTEx	<0.300	0.300	08/08/2013	ND								

Surrogate: Dibromofluoromethane 97.8 % 61.3-142

Surrogate: Toluene-d8 98.4 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/08/2013	ND	432	108	400	3.77		

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	08/07/2013	ND	177	88.3	200	1.38					
DRO >C10-C28	<10.0	10.0	08/07/2013	ND	193	96.4	200	3.30					

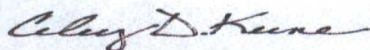
Surrogate: 1-Chlorooctane 94.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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

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Received: 08/05/2013
Reported: 08/09/2013
Project Name: FEDERAL 6 WELL #1
Project Number: 701683.001.01
Project Location: NOT GIVEN

Sampling Date: 08/02/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 1' (H301829-08)

BTEX 8260B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/08/2013	ND	2.40	120	2.00	1.11		
Toluene*	<0.050	0.050	08/08/2013	ND	2.31	115	2.00	4.13		
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.26	113	2.00	4.02		
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.56	109	6.00	2.94		
Total BTEX	<0.300	0.300	08/08/2013	ND						

Surrogate: Dibromofluoromethane 93.9 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/08/2013	ND	432	108	400	3.77		

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	08/07/2013	ND	177	88.3	200	1.38	
DRO >C10-C28	<10.0	10.0	08/07/2013	ND	193	96.4	200	3.30	

Surrogate: 1-Chlorooctane 93.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 116 % 63.6-154

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Received: 08/05/2013
Reported: 08/09/2013
Project Name: FEDERAL 6 WELL #1
Project Number: 701683.001.01
Project Location: NOT GIVEN

Sampling Date: 08/02/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 2' (H301829-09)
BTEX 8260B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2013	ND	2.40	120	2.00	1.11	
Toluene*	<0.050	0.050	08/08/2013	ND	2.31	115	2.00	4.13	
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.26	113	2.00	4.02	
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.56	109	6.00	2.94	
Total BTEX	<0.300	0.300	08/08/2013	ND					

Surrogate: Dibromofluoromethane 94.6 % 61.3-142

Surrogate: Toluene-d8 100 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/08/2013	ND	432	108	400	3.77	

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	08/08/2013	ND	177	88.3	200	1.38	
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	193	96.4	200	3.30	

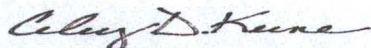
Surrogate: 1-Chlorooctane 96.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 120 % 63.6-154

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ARTESIA NM, 88210
Fax To: (575) 745-8905

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Received: 08/05/2013
Reported: 08/09/2013
Project Name: FEDERAL 6 WELL #1
Project Number: 701683.001.01
Project Location: NOT GIVEN

Sampling Date: 08/02/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-3 3' (H301829-10)
BTEX 8260B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2013	ND	2.40	120	2.00	1.11	
Toluene*	<0.050	0.050	08/08/2013	ND	2.31	115	2.00	4.13	
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.26	113	2.00	4.02	
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.56	109	6.00	2.94	
Total BTEX	<0.300	0.300	08/08/2013	ND					

Surrogate: Dibromofluoromethane 96.5 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/08/2013	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	<10.0	10.0	08/08/2013	ND	177	88.3	200	1.38	
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	193	96.4	200	3.30	


Surrogate: 1-Chlorooctane 88.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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ARTESIA NM, 88210
Fax To: (575) 745-8905

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SEP 27 2013

Received: 08/05/2013
Reported: 08/09/2013
Project Name: FEDERAL 6 WELL #1
Project Number: 701683.001.01
Project Location: NOT GIVEN

Sampling Date: 08/02/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

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Sample ID: S-4 0' (H301829-11)

BTEX 8260B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/08/2013	ND	2.40	120	2.00	1.11		
Toluene*	<0.050	0.050	08/08/2013	ND	2.31	115	2.00	4.13		
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.26	113	2.00	4.02		
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.56	109	6.00	2.94		
Total BTEX	<0.300	0.300	08/08/2013	ND						

Surrogate: Dibromofluoromethane 97.8 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	208	16.0	08/08/2013	ND	416	104	400	0.00		
TPH 8015M		mg/kg		Analyzed By: MS						

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	08/08/2013	ND	174	87.1	200	2.41	
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	180	90.2	200	2.38	


Surrogate: 1-Chlorooctane 91.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

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ARTESIA NM, 88210
Fax To: (575) 745-8905

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Received: 08/05/2013
Reported: 08/09/2013
Project Name: FEDERAL 6 WELL #1
Project Number: 701683.001.01
Project Location: NOT GIVEN

Sampling Date: 08/02/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-4 1' (H301829-12)

BTEX 8260B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2013	ND	2.40	120	2.00	1.11	
Toluene*	<0.050	0.050	08/08/2013	ND	2.31	115	2.00	4.13	
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.26	113	2.00	4.02	
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.56	109	6.00	2.94	
Total BTEX	<0.300	0.300	08/08/2013	ND					

Surrogate: Dibromofluoromethane 98.7 % 61.3-142

Surrogate: Toluene-d8 100 % 71.3-129

Surrogate: 4-Bromofluorobenzene 101 % 65.7-141

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	08/08/2013	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	<10.0	10.0	08/08/2013	ND	174	87.1	200	2.41	
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	180	90.2	200	2.38	

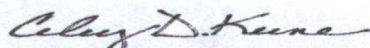
Surrogate: 1-Chlorooctane 76.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 93.6 % 63.6-154

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ARTESIA NM, 88210
Fax To: (575) 745-8905

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Received: 08/05/2013
Reported: 08/09/2013
Project Name: FEDERAL 6 WELL #1
Project Number: 701683.001.01
Project Location: NOT GIVEN

Sampling Date: 08/02/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-5 0' (H301829-13)

BTX 8260B			mg/kg							
			Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/08/2013	ND	2.40	120	2.00	1.11		
Toluene*	<0.050	0.050	08/08/2013	ND	2.31	115	2.00	4.13		
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.26	113	2.00	4.02		
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.56	109	6.00	2.94		
Total BTX	<0.300	0.300	08/08/2013	ND						

Surrogate: Dibromofluoromethane 98.0 % 61.3-142

Surrogate: Toluene-d8 98.7 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B			mg/kg							
			Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/08/2013	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	<10.0	10.0	08/08/2013	ND	174	87.1	200	2.41		
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	180	90.2	200	2.38		


Surrogate: 1-Chlorooctane 87.6 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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Fax To: (575) 745-8905

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Received: 08/05/2013
Reported: 08/09/2013
Project Name: FEDERAL 6 WELL #1
Project Number: 701683.001.01
Project Location: NOT GIVEN

Sampling Date: 08/02/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-5 1' (H301829-14)

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/08/2013	ND	2.51	125	2.00	3.88		
Toluene*	<0.050	0.050	08/08/2013	ND	2.33	116	2.00	1.96		
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.28	114	2.00	2.04		
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.74	112	6.00	1.58		
Total BTEX	<0.300	0.300	08/08/2013	ND						

Surrogate: Dibromofluoromethane 95.3 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 105 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/08/2013	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	<10.0	10.0	08/08/2013	ND	174	87.1	200	2.41	
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	180	90.2	200	2.38	

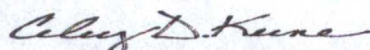
Surrogate: 1-Chlorooctane 67.4 % 65.2-140

Surrogate: 1-Chlorooctadecane 83.7 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

HOBBS OCD

SEP 27 2013

RECEIVED

Received: 08/05/2013
Reported: 08/09/2013
Project Name: FEDERAL 6 WELL #1
Project Number: 701683.001.01
Project Location: NOT GIVEN

Sampling Date: 08/02/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-6 0' (H301829-15)

BTEX 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2013	ND	2.51	125	2.00	3.88	
Toluene*	<0.050	0.050	08/08/2013	ND	2.33	116	2.00	1.96	
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.28	114	2.00	2.04	
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.74	112	6.00	1.58	
Total BTEX	<0.300	0.300	08/08/2013	ND					

Surrogate: Dibromofluoromethane 99.2 % 61.3-142

Surrogate: Toluene-d8 100 % 71.3-129

Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/08/2013	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	<10.0	10.0	08/08/2013	ND	174	87.1	200	2.41	
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	180	90.2	200	2.38	

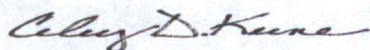
Surrogate: 1-Chlorooctane 80.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 99.5 % 63.6-154

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Analytical Results For:

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

HOBBS OCD

SEP 27 2013

Received: 08/05/2013
Reported: 08/09/2013
Project Name: FEDERAL 6 WELL #1
Project Number: 701683.001.01
Project Location: NOT GIVEN

Sampling Date: 08/02/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

RECEIVED

Sample ID: S-6 1' (H301829-16)

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/08/2013	ND	2.51	125	2.00	3.88		
Toluene*	<0.050	0.050	08/08/2013	ND	2.33	116	2.00	1.96		
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.28	114	2.00	2.04		
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.74	112	6.00	1.58		
Total BTEX	<0.300	0.300	08/08/2013	ND						

Surrogate: Dibromofluoromethane 98.2 % 61.3-142

Surrogate: Toluene-d8 99.4 % 71.3-129

Surrogate: 4-Bromofluorobenzene 104 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/08/2013	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	<10.0	10.0	08/08/2013	ND	174	87.1	200	2.41	
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	180	90.2	200	2.38	

Surrogate: 1-Chlorooctane 87.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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

HOBBS OCD

SEP 27 2013

RECEIVED

Received: 08/05/2013
Reported: 08/09/2013
Project Name: FEDERAL 6 WELL #1
Project Number: 701683.001.01
Project Location: NOT GIVEN

Sampling Date: 08/02/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-6 2' (H301829-17)

BTEx 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/08/2013	ND	2.51	125	2.00	3.88		
Toluene*	<0.050	0.050	08/08/2013	ND	2.33	116	2.00	1.96		
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.28	114	2.00	2.04		
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.74	112	6.00	1.58		
Total BTEX	<0.300	0.300	08/08/2013	ND						

Surrogate: Dibromofluoromethane 100 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/08/2013	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	<10.0	10.0	08/08/2013	ND	174	87.1	200	2.41		
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	180	90.2	200	2.38		


Surrogate: 1-Chlorooctane 85.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

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DAVID ADKINS
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ARTESIA NM, 88210
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SEP 27 2013

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Received: 08/05/2013
Reported: 08/09/2013
Project Name: FEDERAL 6 WELL #1
Project Number: 701683.001.01
Project Location: NOT GIVEN

Sampling Date: 08/02/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-7 0' (H301829-18)

BTEX 8260B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/08/2013	ND	2.51	125	2.00	3.88		
Toluene*	<0.050	0.050	08/08/2013	ND	2.33	116	2.00	1.96		
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.28	114	2.00	2.04		
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.74	112	6.00	1.58		
Total BTEX	<0.300	0.300	08/08/2013	ND						

Surrogate: Dibromofluoromethane 97.0 % 61.3-142

Surrogate: Toluene-d8 100 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/08/2013	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	<10.0	10.0	08/08/2013	ND	174	87.1	200	2.41		
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	180	90.2	200	2.38		

Surrogate: 1-Chlorooctane 75.9 % 65.2-140

Surrogate: 1-Chlorooctadecane 89.1 % 63.6-154

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

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Received: 08/05/2013
Reported: 08/09/2013
Project Name: FEDERAL 6 WELL #1
Project Number: 701683.001.01
Project Location: NOT GIVEN

Sampling Date: 08/02/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-7 1' (H301829-19)

BTEx 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/08/2013	ND	2.51	125	2.00	3.88		
Toluene*	<0.050	0.050	08/08/2013	ND	2.33	116	2.00	1.96		
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.28	114	2.00	2.04		
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.74	112	6.00	1.58		
Total BTEx	<0.300	0.300	08/08/2013	ND						

Surrogate: Dibromofluoromethane 96.7 % 61.3-142

Surrogate: Toluene-d8 99.3 % 71.3-129

Surrogate: 4-Bromofluorobenzene 102 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/08/2013	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	<10.0	10.0	08/08/2013	ND	174	87.1	200	2.41		
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	180	90.2	200	2.38		


Surrogate: 1-Chlorooctane 89.0 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

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Analytical Results For:

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

HOBBS OCD
SEP 27 2013
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Received: 08/05/2013
Reported: 08/09/2013
Project Name: FEDERAL 6 WELL #1
Project Number: 701683.001.01
Project Location: NOT GIVEN

Sampling Date: 08/02/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-7 2' (H301829-20)

BTX 8260B			mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/08/2013	ND	2.28	114	2.00	1.60		
Toluene*	<0.050	0.050	08/08/2013	ND	2.19	110	2.00	2.07		
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.12	106	2.00	1.60		
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.32	105	6.00	3.00		
Total BTX	<0.300	0.300	08/08/2013	ND						

Surrogate: Dibromofluoromethane 98.5 % 61.3-142

Surrogate: Toluene-d8 101 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/08/2013	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	<10.0	10.0	08/08/2013	ND	174	87.1	200	2.41		
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	180	90.2	200	2.38		

Surrogate: 1-Chlorooctane 84.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 101 % 63.6-154

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Analytical Results For:

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

SEP 27 2013

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Received: 08/05/2013
Reported: 08/09/2013
Project Name: FEDERAL 6 WELL #1
Project Number: 701683.001.01
Project Location: NOT GIVEN

Sampling Date: 08/02/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-8 0' (H301829-21)

BTEx 8260B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2013	ND	2.28	114	2.00	1.60	
Toluene*	<0.050	0.050	08/08/2013	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.12	106	2.00	1.60	
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.32	105	6.00	3.00	
Total BTEx	<0.300	0.300	08/08/2013	ND					

Surrogate: Dibromofluoromethane 95.2 % 61.3-142

Surrogate: Toluene-d8 100 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/08/2013	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	<10.0	10.0	08/08/2013	ND	174	87.1	200	2.41	
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	180	90.2	200	2.38	

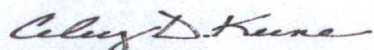
Surrogate: 1-Chlorooctane 93.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 114 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

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

SEP 27 2013

RECEIVED

Received: 08/05/2013
Reported: 08/09/2013
Project Name: FEDERAL 6 WELL #1
Project Number: 701683.001.01
Project Location: NOT GIVEN

Sampling Date: 08/02/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-8 1' (H301829-22)
BTEX 8260B

mg/kg

Analyzed By: MS

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2013	ND	2.28	114	2.00	1.60	
Toluene*	<0.050	0.050	08/08/2013	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.12	106	2.00	1.60	
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.32	105	6.00	3.00	
Total BTEX	<0.300	0.300	08/08/2013	ND					

Surrogate: Dibromofluoromethane 97.7 % 61.3-142

Surrogate: Toluene-d8 99.1 % 71.3-129

Surrogate: 4-Bromofluorobenzene 101 % 65.7-141

Chloride, SM4500Cl-B

mg/kg

Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/08/2013	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	<10.0	10.0	08/08/2013	ND	174	87.1	200	2.41	
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	180	90.2	200	2.38	

Surrogate: 1-Chlorooctane 80.5 % 65.2-140

Surrogate: 1-Chlorooctadecane 97.5 % 63.6-154

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Analytical Results For:

SEP 27 2013

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

RECEIVED

Received: 08/05/2013
Reported: 08/09/2013
Project Name: FEDERAL 6 WELL #1
Project Number: 701683.001.01
Project Location: NOT GIVEN

Sampling Date: 08/02/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-9 0' (H301829-23)

BTEX 8260B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	08/08/2013	ND	2.28	114	2.00	1.60		
Toluene*	<0.050	0.050	08/08/2013	ND	2.19	110	2.00	2.07		
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.12	106	2.00	1.60		
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.32	105	6.00	3.00		
Total BTEX	<0.300	0.300	08/08/2013	ND						

Surrogate: Dibromofluoromethane 96.1 % 61.3-142

Surrogate: Toluene-d8 100 % 71.3-129

Surrogate: 4-Bromofluorobenzene 103 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/08/2013	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	<10.0	10.0	08/08/2013	ND	174	87.1	200	2.41	
DRO >C10-C28	<10.0	10.0	08/08/2013	ND	180	90.2	200	2.38	

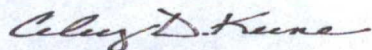
Surrogate: 1-Chlorooctane 72.3 % 65.2-140

Surrogate: 1-Chlorooctadecane 86.3 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

HOBBS OCD

Analytical Results For:

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

SEP 27 2013

RECEIVED

Received: 08/05/2013
Reported: 08/09/2013
Project Name: FEDERAL 6 WELL #1
Project Number: 701683.001.01
Project Location: NOT GIVEN

Sampling Date: 08/02/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-9 1' (H301829-24)

BTEX 8260B		mg/kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/08/2013	ND	2.28	114	2.00	1.60	
Toluene*	<0.050	0.050	08/08/2013	ND	2.19	110	2.00	2.07	
Ethylbenzene*	<0.050	0.050	08/08/2013	ND	2.12	106	2.00	1.60	
Total Xylenes*	<0.150	0.150	08/08/2013	ND	6.32	105	6.00	3.00	
Total BTEX	<0.300	0.300	08/08/2013	ND					

Surrogate: Dibromofluoromethane 95.4 % 61.3-142

Surrogate: Toluene-d8 98.6 % 71.3-129

Surrogate: 4-Bromofluorobenzene 120 % 65.7-141

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/08/2013	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	<10.0	10.0	08/08/2013	ND	174	87.1	200	2.41		
DRO >C10-C28	106	10.0	08/08/2013	ND	180	90.2	200	2.38		

Surrogate: 1-Chlorooctane 70.2 % 65.2-140

Surrogate: 1-Chlorooctadecane 85.2 % 63.6-154

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Celey D. Keene, Lab Director/Quality Manager

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

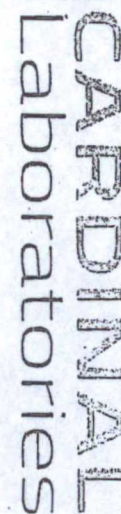
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Celey D. Keene, Lab Director/Quality Manager



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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: Talon/LPE		P.O. #:		BILL TO		ANALYSIS REQUEST	
Project Manager: D. Adkins		Company: Talon/LPE					
Address: 408 W. TEXAS AVE.		City: Artesia		State: NM		Zip: 88210	
Phone #: 575-746-8768		Fax #: 575-746-8905		Address:			
Project #: 701683.001.01		Project Owner: Camaron Oil Co		City:			
Project Name: Camaron oil fields		Federal & Well # 7		State:		Zip:	
Project Location:		Phone #:		Fax #:			
Sampler Name: Robbie DeRosier		Matrix:		Preserv:		Sampling	
FOR LAB USE ONLY		DATE		TIME			
Lab I.D.	Sample I.D.	(G) RAB OR (C) OMP.	# CONTAINERS	GROUNDWATER	WASTEWATER	SOIL	OIL
		OTHER:	ACID/BASE:	ICE / COOL	OTHER:		
H3D1629	5-1 0'	5	1	8/24/13	1:35p	TPH	BTEX
2	5-1 1'	5	1	1:39	1:42	Chlorides	
3	5-1 2'	5	1	1:44	1:47		
4	5-1 3'	5	1	1:55	2:02		
5	5-2 0'	5	1	2:05	2:07		
6	5-2 1'	5	1	2:10			
7	5-3 0'	5	1				
8	5-3 1'	5	1				
9	5-3 2'	5	1				
10	5-3 3'	5	1				

PLEASE NOTE: Liability and Damages, Cardholder's liability and agent's exclusive remedy for any claim arising out of or related to the performance of services herein shall be limited to the amount paid by the client for the analysis. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardholder within 30 days after completion of the applicable service. In no event shall Cardholder be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by agent, its subsidiaries, affiliates or successors within out of or related to the performance of services herein.

Relinquished By: Robbie DeRosier Date: 8/13 Received By: Sharon Moore Time: 2:23 Date: 8/13

Relinquished By: Sharon Moore Received By: Sharon Moore Time: 5:00 Date: 8/13

Delivered By: (Circle One) 5.20c Sample Condition Yes ☒ Yes ☐ No ☐ No ☐ No ☐ No

Sampler - UPS - Bus - Other: 5.20c CHECKED BY: SH (Initials)

REMARKS:

RECEIVED

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: TOLON/LPE		P.O. #:							
Project Manager: D. Adkins		BILL TO:							
Address: 408 W. TEXAS AVE.		Company: Tolon/LPE							
City: Artesia	State: NM	Zip: 88210							
Phone #: 575-746-8768	Fax #: 575-746-8906	Address:							
Project #: 701683.001.01	Project Owner: Cameron oil & gas	City:							
Project Name: Cameron oil & gas	Federal well # 2	State:							
Project Location:		Zip:							
Sampler Name: Robbie De Rosier	Phone #:	Fax #:							
FOR LAB USE ONLY									
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	TPH	BTEX	Chlorides
H	5-40'	G	1	GROUNDWATER		DATE	TIME		
12	5-41'	G	1	WASTEWATER		8/2/13	2:19	/	/
13	5-50'	G	1	SOIL			2:22	/	/
14	5-51'	G	1	OIL			2:25	/	/
15	5-60'	G	1	SLUDGE			2:33	/	/
16	5-61'	G	1	OTHER :			2:35	/	/
17	5-62'	G	1	ACID/BASE:			2:38	/	/
18	5-70'	G	1	ICE / COOL			2:39	/	/
19	5-71'	G	1	OTHER :			2:40	/	/
20	5-72'	G	1				2:42	/	/

PLEASE NOTE: Labing and Outgoing. Certificate labels and client's evaluation ready for my return along with flow based in contract or not, shall be checked by the amount paid by the client for the analysis. All data including those for negligence and any other cases whatsoever shall be deemed void unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidents or consequential damages, including without limitation, business interruption, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors either oral or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated theories or otherwise.

Relinquished By:	Date: 8/5/13	Received By:	Time: 12:23
Relinquished By:	Date: 8/5/13	Received By:	Time: 3:50
Delivered By: (Circle One)	Sample Condition	CHECKED BY:	
Sampler - UPS - Bus - Other:	Good Intact <input type="checkbox"/> Yes <input type="checkbox"/> No	(Signature)	
REMARKS:			

RECEIVED

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

ANALYSIS REQUEST

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



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

August 26, 2013

DAVID ADKINS

TALON LPE

408 W. TEXAS AVE.

ARTESIA, NM 88210

RE: FEDERAL 6 WELL #1

Enclosed are the results of analyses for samples received by the laboratory on 08/21/13 12:30.

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/qa/lab_accred_certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

HOBBS OCD

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Analytical Results For:

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

HOBBS OCD

SEP 27 2013

RECEIVED

Received: 08/21/2013
Reported: 08/26/2013
Project Name: FEDERAL 6 WELL #1
Project Number: 701683.001.01
Project Location: NOT GIVEN

Sampling Date: 08/20/2013
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S-1 6' (H301996-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1230	16.0	08/26/2013	ND	400	100	400	7.69		

Sample ID: S-1 8' (H301996-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1090	16.0	08/26/2013	ND	400	100	400	7.69		

Sample ID: S-1 10' REFUSAL (H301996-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	1440	16.0	08/26/2013	ND	400	100	400	7.69		

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

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*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



CARDINAL Laboratories

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SEP-27 2013

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: TALON/LPE		P.O. #:		BILTO		ANALYSIS REQUEST	
Project Manager: D. Atkins		Company: TALON/LPE					
Address: 408 W. Texas Ave		Attn:					
City: Alameda		Address:					
State: NM Zip: 88210		City:					
Phone #: 575-744-8768 Fax #: 575-744-8905		State:					
Project #: 701683, 00101 Project Owner: American oil		Zip:					
Project Name: Federal 6 #1		Phone #:					
Project Location:		Fax #:					
Sampler Name: Shelden Hitchcock		PRESERV					
FOR LAB USE ONLY		SAMPLING					
Lab I.D.	Sample I.D.	MATRIX					
H309916							
1	5-16'	(G)RAB OR (C)OMP.					
2	5-18'	# CONTAINERS					
3	5-110' refusal	GROUNDWATER					
		WASTEWATER					
		SOIL					
		OIL					
		SLUDGE					
		OTHER :					
		ACID/BASE:					
		ICE / COOL					
		OTHER :					
		DATE					
		TIME					
		Chlorides					

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Relinquished By: **Shelden Hitchcock** Date: **9/24/13** Time: **10:00am** Received By: **Donna L. Hagan** Date: **9/24/13** Time: **12:30**

Delivered By: (Circle One) **UPS** - Bus - Other: **UPS** Sample Condition: **Good** Checked By: **CP**

Phone Result: ☐ Yes ☐ No Add'l Phone #: **575-744-8905**

Fax Result: ☐ Yes ☐ No Add'l Fax #: **575-744-8905**

REMARKS:

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

408 ASCU