



DELINEATION WORKPLAN

CHEVRON – ROSS RANCH 6 FEDERAL #1H (Leak Date: 12/5/16)

RP # 2RP-4039
API # 30-015-36883

This delineation workplan and remediation proposal addresses the release associated with RP # 2RP-4039.

The following information includes:

1. Scaled digital site map with spill area demarcated and leak point identified along with sample point locations and areas of remediation at appropriate depths.
2. GPS information for sample points and sample methodology
3. Depth to groundwater information (i.e., pdf of OSE search results and/or copy of Chevron groundwater trend map).
4. Laboratory analysis results summary table and original laboratory analysis reports
5. A copy of the initial C-141
6. Potentially other pertinent information as necessary for site specific purposes.

Based on the information included in this package and the NMOCD guidelines, the following remediation is proposed:

CHEVRON will excavate the spill area as depicted on the following site diagram. The leak area near SP4 will be raked or surface scraped. The leak area near SP5, SP7-SP9 will be excavated to a depth of 1 foot. The leak area near SP10 and SP11 will be excavated to a depth of 3 feet. No impact was discovered near SP1-SP3, therefore, no remediation activities are warranted.

The entire site will then be backfilled with clean soil and revegetated (if warranted) to the standards of the appropriate regulatory agency or private surface owner.

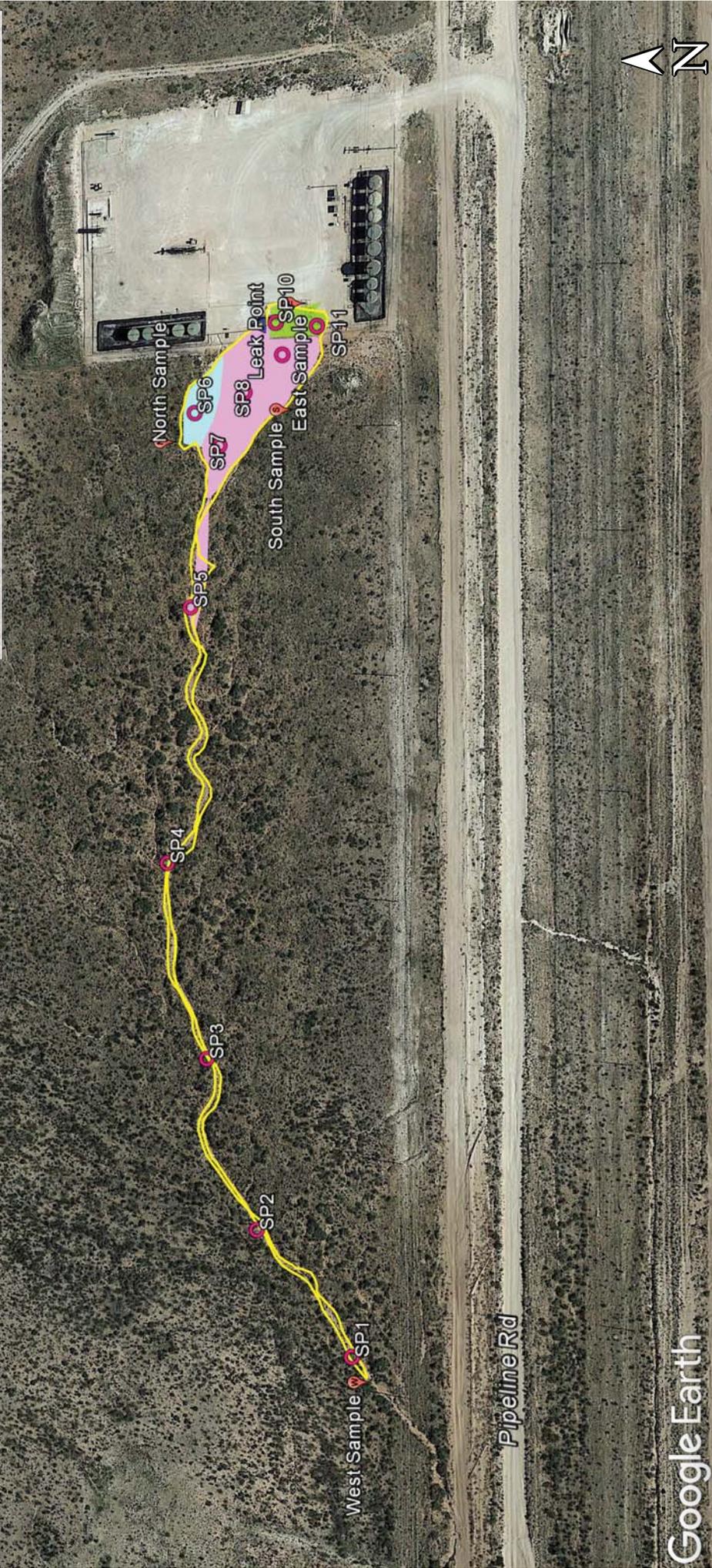
All excavated materials will be disposed of at an NMOCD-approved disposal facility.

Chevron, Ross Ranch 6 Federal #1H

Leak Date: 12/05/2016 2RP-4039, API # 30-015-36883

Legend

- 1' Excavation
- 3' Excavation
- East Sample
- Spill Area
- Leak Point
- North Sample
- Sample points, Hand auger
- South Sample
- Surface scrape, Overspray Area
- West Sample



Chevron, Ross Ranch 6 Federal #1H

Samples, Hand Auger

SP1, GPS POINT: N 32.06487 W-103.92241

SP2, GPS POINT: N 32.06519 W-103.92195

SP3, GPS POINT: N 32.06536 W-103.92129

SP4, GPS POINT: N 32.06550 W-103.92051

SP5, GPS POINT: N 32.06541 W-103.91950

SP6, GPS POINT: N 32.06539 W-103.91873

SP7, GPS POINT: N 32.06531 W-103.91886

SP8, GPS POINT: N 32.06522 W-103.91866

SP9, GPS POINT: N 32.06509 W-103.91853

SP10, GPS POINT: N 32.06511 W-103.91840

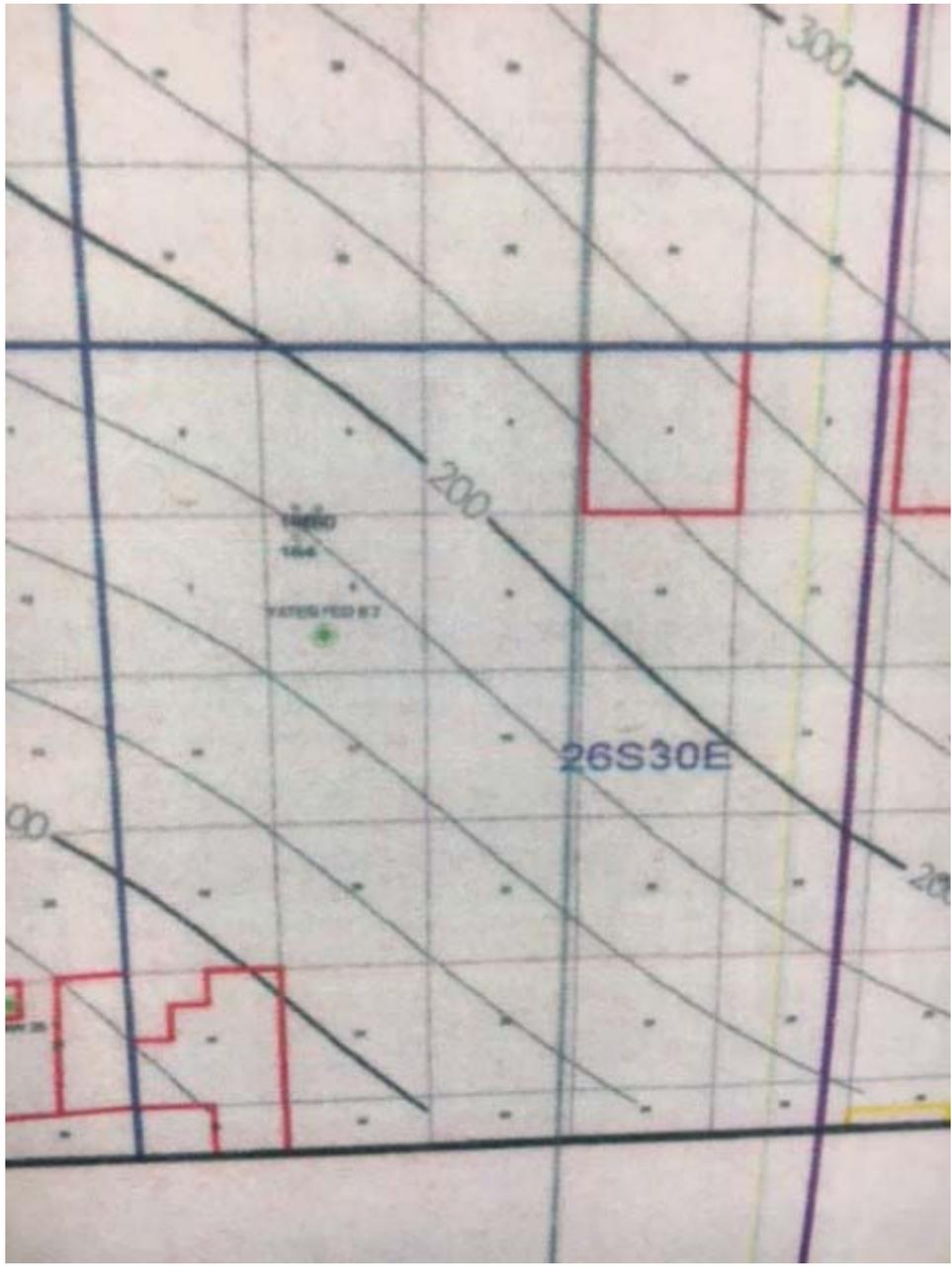
SP11, GPS POINT: N 32.06497 W-103.91843

NORTH SAMPLE, GPS POINT: N 32.06547 W-103.91884

SOUTH SAMPLE, GPS POINT: N 32.06507 W-103.91875

EAST SAMPLE, GPS POINT: N 32.06502 W-103.91834

WEST SAMPLE, GPS POINT: N 32.06482 W-103.92250





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

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

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

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

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 6	Q 4	Q 3	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column
C_01360		C	ED	4	3	3	05	26S	30E	602997	3548152	<input type="checkbox"/>	915	770	173 597
C_01361			ED	3	4	3	05	26S	30E	603240	3548157	<input type="checkbox"/>	1156	775	184 591

Average Depth to Water: **178 feet**
 Minimum Depth: **173 feet**
 Maximum Depth: **184 feet**

Record Count: 2

UTMNAD83 Radius Search (in meters):

Easting (X): 602091

Northing (Y): 3548286

Radius: 1700

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.

3/8/17 2:58 PM

WATER COLUMN/ AVERAGE DEPTH TO WATER

Public Land Survey System (PLSS)

Q64: Q16: Q4: Sec: Tws: Rng:

State Plane Coordinate System - NAD27

X: ft Y: ft Zone:

State Plane Coordinate System - NAD83

X: ft Y: ft Zone:

Degrees/Minutes/Seconds

Longitude (X): Degrees: ° Minutes: ' Seconds: ''
Latitude (Y): Degrees: ° Minutes: ' Seconds: ''

UTM - NAD27

Easting (X): mtrs Northing (Y): mtrs Zone:

SUBMIT

All Conversion Results are displayed as **NAD 1983 UTM Zone 13**

Easting (X): mtrs Northing (Y): mtrs

~~ Please keep screen open to copy UTM values for Reports. ~~



Groundwater Plot

Chevron Ross Ranch 6 Federal #1H

County
Eddy

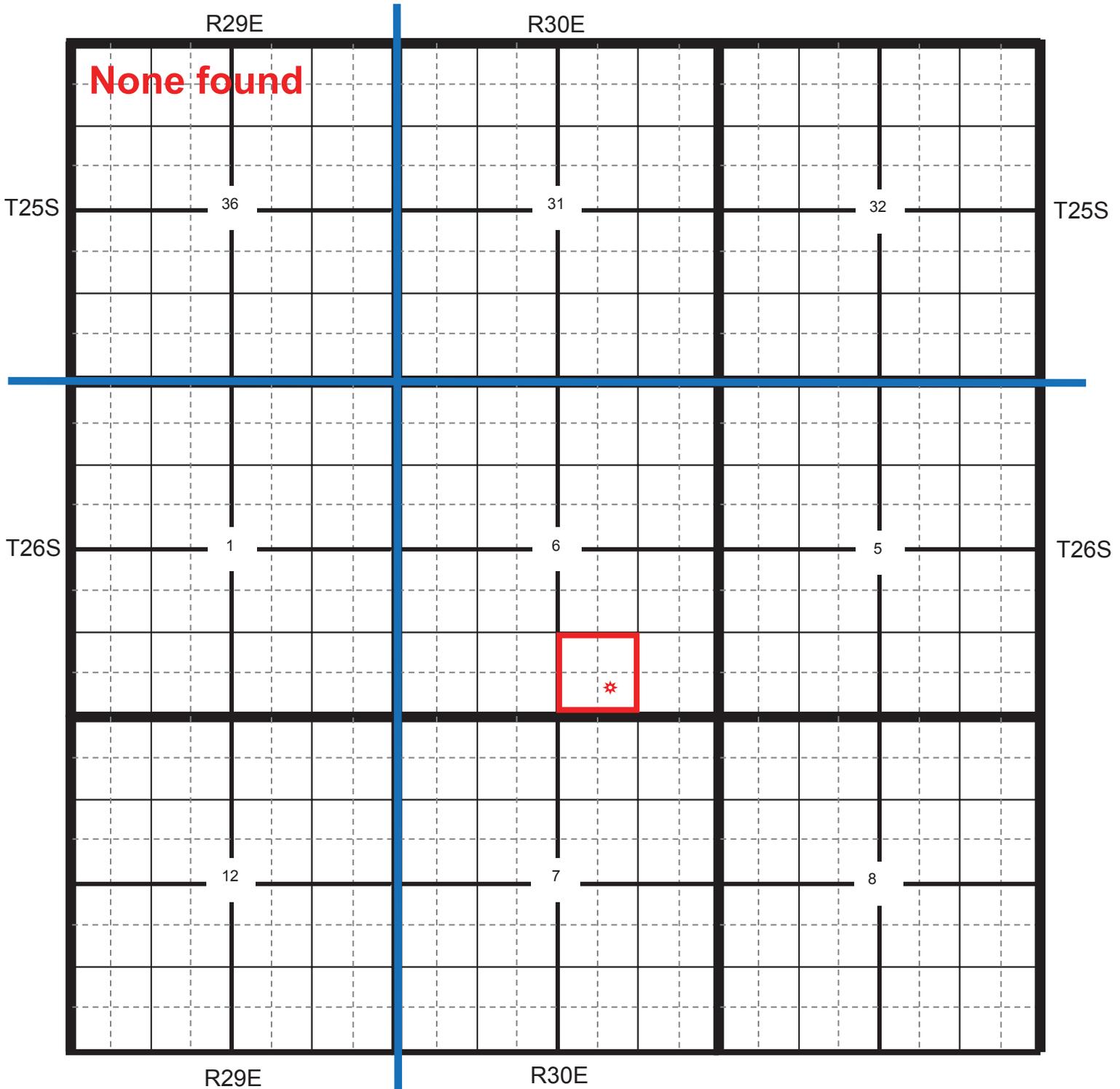
Unit Letter
O

Section
6

Township
26S

Range
30E

Trend Map 175'



★ Location

● OCD

● USGS

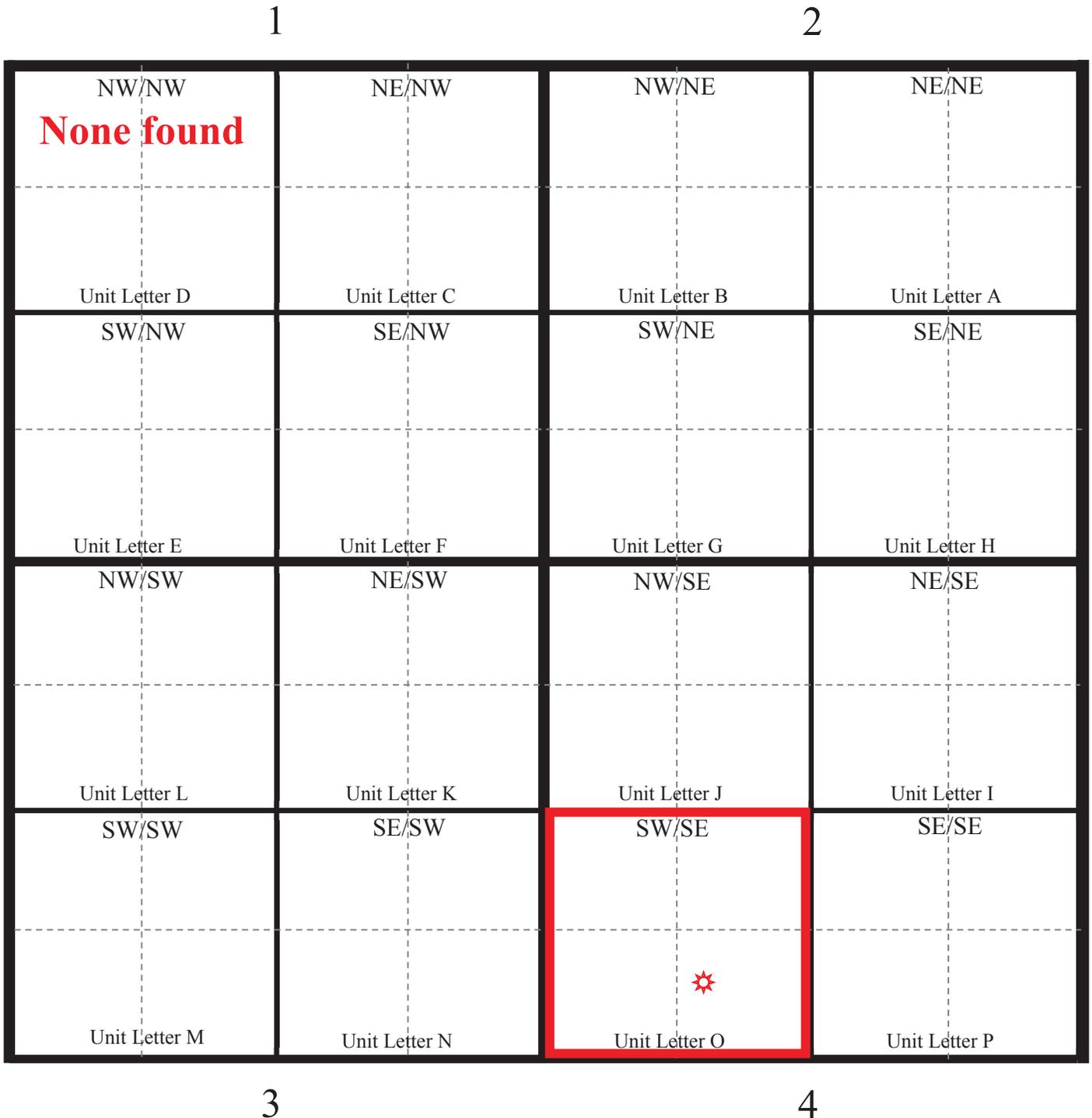
● SEO

● All Databases

Chevron Ross Ranch 6 Federal #1H

County Eddy	Unit Letter O	Section 6	Township 26S	Range 30E
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Trend Map 175'



Laboratory Analytical Results Summary
 Ross Ranch 6 Federal #1H

Analyte	Method	Sample Date	SP1 @ SURFACE 2/14/17 mg/kg
Chloride	SM4500C-H		240

Analyte	Method	Sample Date	SP5 @ SURFACE 2/14/17 mg/kg	SP5 @ 1' 2/14/17 mg/kg	SP5 @ 2' 2/14/17 mg/kg
Chloride	SM4500C-H		672	1310	64

Analyte	Method	Sample Date	SP7 @ 1' 2/14/17 mg/kg	SP7 @ 2' 2/14/17 mg/kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500C-H		2560	256
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		421	32.7

Analyte	Method	Sample Date	SP8 @ 1' 2/14/17 mg/kg	SP8 @ 2' 2/14/17 mg/kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500C-H		2360	208
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		459	72.5

Analyte	Method	Sample Date	SP9 @ 1' 2/14/17 mg/kg	SP9 @ 2' 2/14/17 mg/kg
Benzene	BTEX 8021B		<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300
Chloride	SM4500C-H		2480	192
GRO	TPH 8015M		<10.0	<10.0
DRO	TPH 8015M		80.4	45.4

Analyte	Method	Sample Date	SP2 @ SURFACE 2/14/17 mg/kg
Chloride	SM4500C-H		32

Analyte	Method	Sample Date	SP6 @ SURFACE 2/14/17 mg/kg
Chloride	SM4500C-H		224

Analyte	Method	Sample Date	SP10 @ 1' 2/14/17 mg/kg	SP10 @ 3' 2/14/17 mg/kg	SP10 @ 3.5' 2/14/17 mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		0.262	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500C-H		6260	2120	80
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		238	122	24.7

Analyte	Method	Sample Date	SP11 @ 1' 2/14/17 mg/kg	SP11 @ 3' 2/14/17 mg/kg	SP11 @ 3.5' 2/14/17 mg/kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300
Chloride	SM4500C-H		6530	1960	64
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		211	144	38

Analyte	Method	Sample Date	SP3 @ SURFACE 2/14/17 mg/kg
Chloride	SM4500C-H		80

Analyte	Method	Sample Date	NORTH @ SURFACE 2/14/17 mg/kg
Chloride	SM4500C-H		16

Analyte	Method	Sample Date	EAST @ SURFACE 2/14/17 mg/kg
Chloride	SM4500C-H		<16.0

Analyte	Method	Sample Date	SP4 @ SURFACE 2/14/17 mg/kg
Chloride	SM4500C-H		640

Analyte	Method	Sample Date	SOUTH @ SURFACE 2/14/17 mg/kg
Chloride	SM4500C-H		16

Analyte	Method	Sample Date	WEST @ SURFACE 2/14/17 mg/kg
Chloride	SM4500C-H		16

February 28, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: ROSS RANCH 6 FED#1H

Enclosed are the results of analyses for samples received by the laboratory on 02/24/17 13:40.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

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

Analytical Results For:

 BBC International, Inc.
 Cliff Brunson
 P.O. Box 805
 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	02/24/2017	Sampling Date:	02/14/2017
Reported:	02/28/2017	Sampling Type:	Soil
Project Name:	ROSS RANCH 6 FED#1H	Sampling Condition:	Cool & Intact
Project Number:	CHEVRON	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NEW MEXICO		

Sample ID: SP1 @ SURFACE (H700470-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	240	16.0	02/27/2017	ND	432	108	400	3.77	

Sample ID: SP2 @ SURFACE (H700470-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	02/27/2017	ND	432	108	400	3.77	

Sample ID: SP3 @ SURFACE (H700470-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/27/2017	ND	432	108	400	3.77	

Sample ID: SP4 @ SURFACE (H700470-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	640	16.0	02/27/2017	ND	432	108	400	3.77	

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Reported:	02/28/2017	Sampling Type:	Soil
Project Name:	ROSS RANCH 6 FED#1H	Sampling Condition:	Cool & Intact
Project Number:	CHEVRON	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NEW MEXICO		

Sample ID: SP5 @ SURFACE (H700470-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	672	16.0	02/27/2017	ND	432	108	400	3.77	

Sample ID: SP5 @ 1' (H700470-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1310	16.0	02/27/2017	ND	432	108	400	3.77	

Sample ID: SP5 @ 2' (H700470-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/27/2017	ND	432	108	400	3.77	

Sample ID: SP6 @ SURFACE (H700470-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	02/27/2017	ND	432	108	400	3.77	

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Received:	02/24/2017	Sampling Date:	02/14/2017
Reported:	02/28/2017	Sampling Type:	Soil
Project Name:	ROSS RANCH 6 FED#1H	Sampling Condition:	Cool & Intact
Project Number:	CHEVRON	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NEW MEXICO		

Sample ID: SP7 @ 1' (H700470-09)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2017	ND	1.89	94.4	2.00	1.81	
Toluene*	<0.050	0.050	02/25/2017	ND	1.76	88.2	2.00	2.17	
Ethylbenzene*	<0.050	0.050	02/25/2017	ND	1.75	87.3	2.00	2.30	
Total Xylenes*	<0.150	0.150	02/25/2017	ND	4.96	82.7	6.00	2.29	
Total BTEX	<0.300	0.300	02/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2560	16.0	02/27/2017	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	02/25/2017	ND	175	87.4	200	3.72	QR-03
DRO >C10-C28	421	10.0	02/25/2017	ND	177	88.6	200	4.87	QM-07

Surrogate: 1-Chlorooctane 90.6 % 35-147

Surrogate: 1-Chlorooctadecane 94.9 % 28-171

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Reported:	02/28/2017	Sampling Type:	Soil
Project Name:	ROSS RANCH 6 FED#1H	Sampling Condition:	Cool & Intact
Project Number:	CHEVRON	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NEW MEXICO		

Sample ID: SP7 @ 2' (H700470-10)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2017	ND	1.89	94.4	2.00	1.81	
Toluene*	<0.050	0.050	02/25/2017	ND	1.76	88.2	2.00	2.17	
Ethylbenzene*	<0.050	0.050	02/25/2017	ND	1.75	87.3	2.00	2.30	
Total Xylenes*	<0.150	0.150	02/25/2017	ND	4.96	82.7	6.00	2.29	
Total BTEX	<0.300	0.300	02/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.1 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	256	16.0	02/27/2017	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	02/25/2017	ND	175	87.4	200	3.72	
DRO >C10-C28	32.7	10.0	02/25/2017	ND	177	88.6	200	4.87	

Surrogate: 1-Chlorooctane 85.3 % 35-147
Surrogate: 1-Chlorooctadecane 85.4 % 28-171

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Reported:	02/28/2017	Sampling Type:	Soil
Project Name:	ROSS RANCH 6 FED#1H	Sampling Condition:	Cool & Intact
Project Number:	CHEVRON	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NEW MEXICO		

Sample ID: SP8 @ 1' (H700470-11)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2017	ND	1.89	94.4	2.00	1.81	
Toluene*	<0.050	0.050	02/25/2017	ND	1.76	88.2	2.00	2.17	
Ethylbenzene*	<0.050	0.050	02/25/2017	ND	1.75	87.3	2.00	2.30	
Total Xylenes*	<0.150	0.150	02/25/2017	ND	4.96	82.7	6.00	2.29	
Total BTEX	<0.300	0.300	02/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.9 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2360	16.0	02/27/2017	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	02/25/2017	ND	175	87.4	200	3.72	
DRO >C10-C28	459	10.0	02/25/2017	ND	177	88.6	200	4.87	

Surrogate: 1-Chlorooctane 92.0 % 35-147

Surrogate: 1-Chlorooctadecane 97.6 % 28-171

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Received:	02/24/2017	Sampling Date:	02/14/2017
Reported:	02/28/2017	Sampling Type:	Soil
Project Name:	ROSS RANCH 6 FED#1H	Sampling Condition:	Cool & Intact
Project Number:	CHEVRON	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NEW MEXICO		

Sample ID: SP8 @ 2' (H700470-12)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2017	ND	1.89	94.4	2.00	1.81	
Toluene*	<0.050	0.050	02/25/2017	ND	1.76	88.2	2.00	2.17	
Ethylbenzene*	<0.050	0.050	02/25/2017	ND	1.75	87.3	2.00	2.30	
Total Xylenes*	<0.150	0.150	02/25/2017	ND	4.96	82.7	6.00	2.29	
Total BTEX	<0.300	0.300	02/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.3 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	02/27/2017	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	02/25/2017	ND	175	87.4	200	3.72	
DRO >C10-C28	72.5	10.0	02/25/2017	ND	177	88.6	200	4.87	

Surrogate: 1-Chlorooctane 88.4 % 35-147

Surrogate: 1-Chlorooctadecane 95.0 % 28-171

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Analytical Results For:

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 Cliff Brunson
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 Hobbs NM, 88241
 Fax To: (575) 397-0397

Received:	02/24/2017	Sampling Date:	02/14/2017
Reported:	02/28/2017	Sampling Type:	Soil
Project Name:	ROSS RANCH 6 FED#1H	Sampling Condition:	Cool & Intact
Project Number:	CHEVRON	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NEW MEXICO		

Sample ID: SP9 @ 1' (H700470-13)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2017	ND	1.89	94.4	2.00	1.81	
Toluene*	<0.050	0.050	02/25/2017	ND	1.76	88.2	2.00	2.17	
Ethylbenzene*	<0.050	0.050	02/25/2017	ND	1.75	87.3	2.00	2.30	
Total Xylenes*	<0.150	0.150	02/25/2017	ND	4.96	82.7	6.00	2.29	
Total BTEX	<0.300	0.300	02/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.9 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2480	16.0	02/27/2017	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	02/25/2017	ND	175	87.4	200	3.72	
DRO >C10-C28	80.4	10.0	02/25/2017	ND	177	88.6	200	4.87	

Surrogate: 1-Chlorooctane 84.4 % 35-147
Surrogate: 1-Chlorooctadecane 88.6 % 28-171

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Received:	02/24/2017	Sampling Date:	02/14/2017
Reported:	02/28/2017	Sampling Type:	Soil
Project Name:	ROSS RANCH 6 FED#1H	Sampling Condition:	Cool & Intact
Project Number:	CHEVRON	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NEW MEXICO		

Sample ID: SP9 @ 2' (H700470-14)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2017	ND	1.89	94.4	2.00	1.81	
Toluene*	<0.050	0.050	02/25/2017	ND	1.76	88.2	2.00	2.17	
Ethylbenzene*	<0.050	0.050	02/25/2017	ND	1.75	87.3	2.00	2.30	
Total Xylenes*	<0.150	0.150	02/25/2017	ND	4.96	82.7	6.00	2.29	
Total BTEX	<0.300	0.300	02/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.0 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	02/27/2017	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	02/25/2017	ND	175	87.4	200	3.72	
DRO >C10-C28	45.4	10.0	02/25/2017	ND	177	88.6	200	4.87	

Surrogate: 1-Chlorooctane 86.7 % 35-147

Surrogate: 1-Chlorooctadecane 83.2 % 28-171

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Received:	02/24/2017	Sampling Date:	02/14/2017
Reported:	02/28/2017	Sampling Type:	Soil
Project Name:	ROSS RANCH 6 FED#1H	Sampling Condition:	Cool & Intact
Project Number:	CHEVRON	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NEW MEXICO		

Sample ID: SP10 @ 1' (H700470-15)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2017	ND	1.89	94.4	2.00	1.81		
Toluene*	<0.050	0.050	02/25/2017	ND	1.76	88.2	2.00	2.17		
Ethylbenzene*	<0.050	0.050	02/25/2017	ND	1.75	87.3	2.00	2.30		
Total Xylenes*	0.262	0.150	02/25/2017	ND	4.96	82.7	6.00	2.29		
Total BTEX	<0.300	0.300	02/25/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 106 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6260	16.0	02/27/2017	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	02/25/2017	ND	175	87.4	200	3.72		
DRO >C10-C28	238	10.0	02/25/2017	ND	177	88.6	200	4.87		

Surrogate: 1-Chlorooctane 89.5 % 35-147
Surrogate: 1-Chlorooctadecane 92.9 % 28-171

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Received:	02/24/2017	Sampling Date:	02/14/2017
Reported:	02/28/2017	Sampling Type:	Soil
Project Name:	ROSS RANCH 6 FED#1H	Sampling Condition:	Cool & Intact
Project Number:	CHEVRON	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NEW MEXICO		

Sample ID: SP10 @ 3' (H700470-16)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2017	ND	1.89	94.4	2.00	1.81	
Toluene*	<0.050	0.050	02/25/2017	ND	1.76	88.2	2.00	2.17	
Ethylbenzene*	<0.050	0.050	02/25/2017	ND	1.75	87.3	2.00	2.30	
Total Xylenes*	<0.150	0.150	02/25/2017	ND	4.96	82.7	6.00	2.29	
Total BTEX	<0.300	0.300	02/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2120	16.0	02/27/2017	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	02/25/2017	ND	175	87.4	200	3.72	
DRO >C10-C28	122	10.0	02/25/2017	ND	177	88.6	200	4.87	

Surrogate: 1-Chlorooctane 80.5 % 35-147

Surrogate: 1-Chlorooctadecane 90.2 % 28-171

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Received:	02/24/2017	Sampling Date:	02/14/2017
Reported:	02/28/2017	Sampling Type:	Soil
Project Name:	ROSS RANCH 6 FED#1H	Sampling Condition:	Cool & Intact
Project Number:	CHEVRON	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NEW MEXICO		

Sample ID: SP10 @ 3.5' (H700470-17)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2017	ND	1.89	94.4	2.00	1.81	
Toluene*	<0.050	0.050	02/25/2017	ND	1.76	88.2	2.00	2.17	
Ethylbenzene*	<0.050	0.050	02/25/2017	ND	1.75	87.3	2.00	2.30	
Total Xylenes*	<0.150	0.150	02/25/2017	ND	4.96	82.7	6.00	2.29	
Total BTEX	<0.300	0.300	02/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.2 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	02/27/2017	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	02/25/2017	ND	175	87.4	200	3.72	
DRO >C10-C28	24.7	10.0	02/25/2017	ND	177	88.6	200	4.87	

Surrogate: 1-Chlorooctane 85.0 % 35-147

Surrogate: 1-Chlorooctadecane 85.3 % 28-171

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Received:	02/24/2017	Sampling Date:	02/14/2017
Reported:	02/28/2017	Sampling Type:	Soil
Project Name:	ROSS RANCH 6 FED#1H	Sampling Condition:	Cool & Intact
Project Number:	CHEVRON	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NEW MEXICO		

Sample ID: SP11 @ 1' (H700470-18)

BTEX 8021B		mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	02/25/2017	ND	1.89	94.4	2.00	1.81		
Toluene*	<0.050	0.050	02/25/2017	ND	1.76	88.2	2.00	2.17		
Ethylbenzene*	<0.050	0.050	02/25/2017	ND	1.75	87.3	2.00	2.30		
Total Xylenes*	<0.150	0.150	02/25/2017	ND	4.96	82.7	6.00	2.29		
Total BTEX	<0.300	0.300	02/25/2017	ND						

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	6530	16.0	02/27/2017	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	02/25/2017	ND	175	87.4	200	3.72		
DRO >C10-C28	211	10.0	02/25/2017	ND	177	88.6	200	4.87		

Surrogate: 1-Chlorooctane 91.8 % 35-147
Surrogate: 1-Chlorooctadecane 98.3 % 28-171

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Received:	02/24/2017	Sampling Date:	02/14/2017
Reported:	02/28/2017	Sampling Type:	Soil
Project Name:	ROSS RANCH 6 FED#1H	Sampling Condition:	Cool & Intact
Project Number:	CHEVRON	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NEW MEXICO		

Sample ID: SP11 @ 3' (H700470-19)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2017	ND	1.89	94.4	2.00	1.81	
Toluene*	<0.050	0.050	02/25/2017	ND	1.76	88.2	2.00	2.17	
Ethylbenzene*	<0.050	0.050	02/25/2017	ND	1.75	87.3	2.00	2.30	
Total Xylenes*	<0.150	0.150	02/25/2017	ND	4.96	82.7	6.00	2.29	
Total BTEX	<0.300	0.300	02/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.6-140

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1960	16.0	02/27/2017	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	02/25/2017	ND	175	87.4	200	3.72	
DRO >C10-C28	144	10.0	02/25/2017	ND	177	88.6	200	4.87	

Surrogate: 1-Chlorooctane 91.4 % 35-147

Surrogate: 1-Chlorooctadecane 101 % 28-171

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Received:	02/24/2017	Sampling Date:	02/14/2017
Reported:	02/28/2017	Sampling Type:	Soil
Project Name:	ROSS RANCH 6 FED#1H	Sampling Condition:	Cool & Intact
Project Number:	CHEVRON	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NEW MEXICO		

Sample ID: SP11 @ 3.5' (H700470-20)

BTEX 8021B		mg/kg		Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	02/25/2017	ND	1.89	94.4	2.00	1.81	
Toluene*	<0.050	0.050	02/25/2017	ND	1.76	88.2	2.00	2.17	
Ethylbenzene*	<0.050	0.050	02/25/2017	ND	1.75	87.3	2.00	2.30	
Total Xylenes*	<0.150	0.150	02/25/2017	ND	4.96	82.7	6.00	2.29	
Total BTEX	<0.300	0.300	02/25/2017	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.5 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	02/27/2017	ND	432	108	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	02/25/2017	ND	175	87.4	200	3.72	
DRO >C10-C28	38.0	10.0	02/25/2017	ND	177	88.6	200	4.87	

Surrogate: 1-Chlorooctane 98.4 % 35-147

Surrogate: 1-Chlorooctadecane 92.7 % 28-171

Sample ID: NORTH SURFACE (H700470-21)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/27/2017	ND	432	108	400	0.00	

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Received:	02/24/2017	Sampling Date:	02/14/2017
Reported:	02/28/2017	Sampling Type:	Soil
Project Name:	ROSS RANCH 6 FED#1H	Sampling Condition:	Cool & Intact
Project Number:	CHEVRON	Sample Received By:	Jodi Henson
Project Location:	MALAGA, NEW MEXICO		

Sample ID: SOUTH SURFACE (H700470-22)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/27/2017	ND	432	108	400	0.00	

Sample ID: EAST SURFACE (H700470-23)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	02/27/2017	ND	432	108	400	0.00	

Sample ID: WEST SURFACE (H700470-24)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	02/27/2017	ND	432	108	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- QR-03 The RPD value for the sample duplicate or MS/MSD was outside of QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
- QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report





CARDINAL LABORATORIES

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:	
Project Manager: Cliff Brunson		Company:	
Address: P.O. Box 805		Attn:	
City: Hobbs		State: NM Zip: 88241	
Phone #: 575-397-6388		Fax #: 575-397-0397	
Project #:		Project Owner: <i>Denver</i>	
Project Name: <i>Loss Bank 6 Fed #11</i>		City:	
Project Location:		State: Zip:	
Sampler Name: <i>Jeff Brunson</i>		Phone #:	
FOR LAB USE ONLY		Fax #:	

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	REMARKS	ANALYSIS REQUEST
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :				
H700470	S98021		3						2/14/17	1040	CL- TPA BTEX		
	S98021		3						2/14/17	1100			
	S99021		3						2/14/17	1120			
	S99021		3						2/14/17	1140			
	S99021		3						2/14/17	1200			
	S99021		3						2/14/17	100			
	S99021		3						2/14/17	120			
	S99021		3						2/14/17	140			
	S99021		3						2/14/17	200			
	S99021		3						2/14/17	220			

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Relinquished By: *[Signature]* Date: *2/23/17* Received By: *[Signature]* Time: *2:00pm*

Delivered By: (Circle One) *UPS* # *715 142* Sample Condition: Cool Intact Yes No

Sampler - UPS - Bus - Other: *#715 142* CHECKED BY: *[Signature]*

REMARKS: Yes No Add'l Phone #: Yes No Add'l Fax #:

245

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

BILL TO

ANALYSIS REQUEST

Company Name: BBC International, Inc.		P.O. #:																
Project Manager: Cliff Brunson		Company:																
Address: P.O. Box 805		Attn:																
City: Hobbs		Address:																
State: NM Zip: 88241		City:																
Phone #: 575-397-6388		State:																
Fax #: 575-397-0397		Zip:																
Project #: _____		Project Owner: <i>Cherise</i>																
Project Name: <i>Ross Pad 6 Fed #11</i>		Phone #:																
Project Location:		Fax #:																
Sampler Name: <i>Rose Swanson</i>		FOR LAB USE ONLY																
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX	PRESERV.	SAMPLING	DATE	TIME										
<i>H10047C</i>	<i>North of Square</i>		<i>6</i>				<i>2/19/17</i>	<i>2:40</i>										
<i>21</i>	<i>South of Square</i>		<i>6</i>				<i>2/19/17</i>	<i>3:00</i>										
<i>22</i>	<i>East of Square</i>		<i>6</i>				<i>2/19/17</i>	<i>3:10</i>										
<i>23</i>	<i>West of Square</i>		<i>6</i>				<i>2/19/17</i>	<i>3:20</i>										

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Relinquished By: _____ Date: *2/21/17* Time: *2:00pm*

Received By: *Cherise Swanson* Date: *2/21/17* Time: *4:40*

Delivered By: (Circle One) *Wheeler*

Sampler - UPS - Bus - Other: *#75 142*

Sample Condition: Cool Intact

Checked By: *Cherise Swanson*

REMARKS:

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

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District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

NM OIL CONSERVATION
State of New Mexico
Energy Minerals and Natural Resources
ARTESIA DISTRICT
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 8, 2011

DEC 19 2016

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

RECEIVED

Release Notification and Corrective Action

NAB1035551037

OPERATOR

Initial Report Final Report

Name of Company: <i>Chevron USA Inc. 4323</i>	Contact: <i>Josepha DeLeon</i>
Address: <i>6301 Deauville Blvd., Midland, TX 79706</i>	Telephone No.: <i>432-425-1528</i>
Facility Name: <i>Ross Ranch 6 Fed 1H</i>	Facility Type: <i>Pipeline</i>

Surface Owner: <i>BLM</i>	Mineral Owner	API No.: <i>30-015-36883</i>
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<i>O</i>	<i>06</i>	<i>26S</i>	<i>30E</i>	<i>350</i>	<i>South</i>	<i>1330</i>	<i>East</i>	<i>Eddy</i>

Latitude: *N32W 03' 55.15"* Longitude: *W 103° 55'08.57"*

NATURE OF RELEASE

Type of Release: <i>Spill</i>	Volume of Release: <i>6.6 BW</i>	Volume Recovered: <i>6 BW</i>
Source of Release: <i>Gas Meter Pressure up</i>	Date and Hour of Occurrence: <i>12/5/2016: 09:00 AM</i>	Date and Hour of Discovery: <i>12/5/2016: 09:00 AM</i>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <i>Jim Amos - BLM; Heather Patterson - NMOCD via phone message and follow up with email</i>	
By Whom? <i>Josepha DeLeon</i>	Date and Hour: <i>12/06/2016 11:00 AM via phone call</i>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

N/A

Describe Cause of Problem and Remedial Action Taken.*

3rd Party shut in gas meter without notifying Chevron, lead to a PSV activation. Shut and secure well.

Describe Area Affected and Cleanup Action Taken.*

Spill to bermed, unlined containment. Called a vacuum truck and removed all water from containment.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature: <i>Josepha DeLeon</i>	Approved by Environmental Specialist: <i>Crystal W</i>
Printed Name: <i>Josepha DeLeon</i>	Approval Date: <i>12/19/16</i> Expiration Date:
Title: <i>HES Compliance Support - Environmental Specialist</i>	Conditions of Approval: <i>see attached</i>
E-mail Address: <i>jdx@chevron.com</i>	Attached <input checked="" type="checkbox"/>
Date: <i>12/16/2016</i> Phone: <i>432-425-1528</i>	

* Attach Additional Sheets If Necessary

JRP-4039

Operator/Responsible Party,

The OCD has received the form C-141 you provided on **12/19/16** regarding an unauthorized release. The information contained on that form has been entered into our incident database and remediation case number 2RP-4039 has been assigned. **Please refer to this case number in all future correspondence.**

It is the Division's obligation under both the Oil & Gas Act and Water Quality Act to provide for the protection of public health and the environment. Our regulations (19.15.29.11 NMAC) state the following,

The responsible person shall complete division-approved corrective action for releases that endanger public health or the environment. The responsible person shall address releases in accordance with a remediation plan submitted to and approved by the division or with an abatement plan submitted in accordance with 19.15.30 NMAC. [emphasis added]

Release characterization is the first phase of corrective action unless the release is ongoing or is of limited volume and all impacts can be immediately addressed. Proper and cost-effective remediation typically cannot occur without adequate characterization of the impacts of any release. Furthermore, the Division has the ability to impose reasonable conditions upon the efforts it oversees. **As such, the Division is requiring a workplan for the characterization of impacts associated with this release be submitted to the OCD District II office in Artesia on or before 1/29/16. If and when the release characterization workplan is approved, there will be an associated deadline for submittal of the resultant investigation report. Modest extensions of time to these deadlines may be granted, but only with acceptable justification.**

The goals of a characterization effort are: 1) determination of the lateral and vertical extents along with the magnitude of soil contamination. 2) determine if groundwater or surface waters have been impacted. 3) If groundwater or surface waters have been impacted, what are the extents and magnitude of that impact. 4) The characterization of any other adverse impacts that may have occurred (examples: impacts on vegetation, impacts on wildlife, air quality, loss of use of property, etc.). To meet these goals as quickly as possible, the following items must, at a minimum, be addressed in the release characterization workplan and subsequent reporting:

- Horizontal delineation of soil impacts in each of the four cardinal compass directions. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. This is not an exclusive list of potential contaminants. Analyzed parameters should be modified based on the nature of the released substance(s). Soil sampling must be both within the impacted area and beyond.
- Vertical delineation of soil impacts. Adsorbed soil contamination must be characterized for the following constituents using the associated laboratory methods: benzene, toluene, ethylbenzene, and total xylenes by either Method 8260 or 8021, total petroleum hydrocarbons by Method 8015 extended range (GRO+DRO+MRO; C₆ thru C₃₆), and for chloride by Method 300. As above, this is not an exclusive list of potential contaminants and can be modified. Vertical characterization samples should be taken at depth intervals no greater than five feet apart. Lithologic description of encountered soils must also be provided. At least ten vertical feet of soils with contaminant concentrations at or below these values must be demonstrated as existing above the water table.
- Nominal detection limits for field and laboratory analyses must be provided.
- Composite sampling is not generally allowed.
- Field screening and assessment techniques are acceptable (headspace, titration, EC [include algorithm for validation purposes], EM, etc.), but the sampling and assay procedures must be clearly defined. Copies of field notes are highly desirable. A statistically significant set of split samples must be submitted for confirmatory laboratory analysis, including the laterally farthest and vertically deepest sets of soil samples. Make sure there are at least two soil samples submitted

for laboratory analysis from each borehole or test pit (highest observed contamination and deepest depth investigated). *Copies of the actual laboratory results must be provided including chain of custody documentation.*

- Probable depth to shallowest protectable groundwater and lateral distance to nearest surface water. If there is an estimate of groundwater depth, the information used to arrive at that estimate must be provided. If there is a reasonable assumption that the depth to protectable water is 50 feet or less, the responsible party should anticipate the need for at least one groundwater monitoring well to be installed in the area of likely maximum contamination.

- If groundwater contamination is encountered, an additional investigation workplan may be required to determine the extents of that contamination. *Groundwater and/or surface water samples, if any, must be analyzed by a competent laboratory for volatile organic hydrocarbons (typically Method 8260 full list), total dissolved solids, pH, major anions and cations including chloride and sulfate, dissolved iron, and dissolved manganese. The investigation workplan must provide the groundwater sampling method(s) and sample handling protocols. To the fullest extent possible, aqueous analyses must be undertaken using nominal method detection limits. As with the soil analyses, copies of the actual laboratory results must be provided including chain of custody documentation.*

- Accurately scaled and well-drafted site maps must be provided providing the location of borings, test pits, monitoring wells, potentially impacted areas, and significant surface features including roads and site infrastructure that might limit either the release characterization or remedial efforts. Field sketches may be included in subsequent reporting, but should not be considered stand-alone documentation of the site's layout. Digital photographic documentation of the location and fieldwork is recommended, especially if unusual circumstances are encountered.

Nothing herein should be interpreted to preclude emergency response actions or to imply immediate remediation by removal cannot proceed as warranted. Nonetheless, characterization of impacts and confirmation of the effectiveness of remedial efforts must still be provided to the OCD before any release incident will be closed.

Jim Griswold

OCD Environmental Bureau Chief

1220 South St. Francis Drive

Santa Fe, New Mexico 87505

505-476-3465

jim.griswold@state.nm.us