

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

State of New Mexico
Energy Minerals and Natural
Resources Department

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NOY1701837929
District RP	
Facility ID	
Application ID	

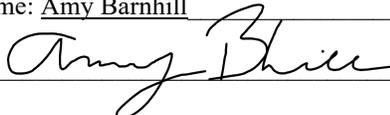
Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: *Each of the following items must be included in the closure report.*

- A scaled site and sampling diagram as described in 19.15.29.11 NMAC
- Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection).
- Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)
- Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD 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 OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD 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. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Amy Barnhill Title: Water Specialist
 Signature:  Date: 8-11-21
 email: ABarnhill@chevron.com Telephone: 432-687-7108

Incident ID	NOY1701837929
District RP	
Facility ID	
Application ID	

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Jennifer Nobui Date: 03/31/2022

Printed Name: Jennifer Nobui Title: Environmental Specialist A

Closure Report

Site Description

Site Name:	Lovington Paddock Unit
Company:	Chevron
Legal Description:	U/L P, Section 1, T17S, R36E
County:	Lea County, NM
GPS Coordinates:	N 32.85846° W-103.30103°

Release Data

Date of Release:	12/25/2016
Type of Release:	Produced water
Source of Release:	Steel line leak
Volume of Release:	16.36 bbls
Volume Recovered:	13 bbls

Remediation Specifications

Remediation Parameters:	Excavate the areas of SP1 and SP2 to a depth of 6 inches. Excavate the areas of SP3 and SP4 to a depth of 1 foot. Obtain bottom and sidewall confirmation samples. Backfill the site with clean soil.	
Remediation Activities:	03/22/2018 to 03/29/2018	
Plan Sent to OCD:	01/26/2018	Email from Cliff Brunson to Olivia Yu
OCD Approval of Plan:	02/01/2018	Email from Olivia Yu to Cliff Brunson
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

Supporting Documentation

Initial C-141	Signed 01/03/2017
Final C-141	Signed 04/03/2018
Site Diagram	February 2017
Groundwater Plot	75'
TOPO Maps	February 2017
Lab Summary	02/10/2017, 01/15/2018, and 03/27/2018
Lab Analysis	02/10/2017, 01/15/2018, and 03/27/2018
Correspondence	Request and approval of remediation plan via email

Request for Closure

Based on the completion of the remediation plan, Chevron requests closure approval from NMOCD.

Josepha DeLeon, HES Specialist, Chevron USA Inc.

04/09/2018

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Form C-141
Revised August 8, 2011

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

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	Chevron USA Inc.	Contact	Josepha DeLeon
Address	6301 Deauville Blvd., Midland, TX 79706	Telephone No.	cell: 432-425-1528 wk: 575-263-0424
Facility Name:	Lovington Paddock Unit	Facility Type:	Battery
Surface Owner:	N/A	Mineral Owner:	New Mexico
		API No.	3002503833

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	1	17S	36E	660	South	660	East	Lea

NATURE OF RELEASE

Type of Release:	Produced Water Spill	Volume of Release:	16.36 barrels of produced water	Volume Recovered:	13 barrels of produced water
Source of Release:	Steel Line	Date and Hour of Occurrence:	12/25/2016; 09:00 AM	Date and Hour of Discovery:	12/25/2016; 09:00 AM
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Maxey Brown		
By Whom?		Date and Hour:	12/25/2016; verbal via phone call		
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.* Produced water spill undergrown from injection trunk/lateral steel line.					
Describe Area Affected and Cleanup Action Taken.* Isolated lease to repair steel line. Vacuum truck extracted standing liquid. Recovered 13 barrels produced water. Remediation plan will follow.					
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.					
Signature: 		OIL CONSERVATION DIVISION			
Printed Name: Josepha DeLeon		Approved by Environmental Specialist:			
Title: HES Specialist, Environmental Compliance Support		Approval Date:		Expiration Date:	
E-mail Address: jdx@chevron.com		Conditions of Approval:			Attached <input type="checkbox"/>
Date: 01/3/2017 Phone: 575-263-0424					

* Attach Additional Sheets If Necessary

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Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	Chevron USA Inc.	Contact	Josepha DeLeon
Address	6301 Deauville Blvd., Midland, TX 79706	Telephone No.	office: 575-263-0424; cell: 432-425-1528
Facility Name	Lovington Paddock Unit	Facility Type	Battery
Surface Owner	Private	Mineral Owner	State of NM
		API No.	30-025-03833

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	1	17S	36E	660	South	660	East	Lea County, NM

Latitude N 32.85846° Longitude W 103.30103°

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	16.36 bbls	Volume Recovered	13 bbls
Source of Release	Steel line leak	Date and Hour of Occurrence	12/25/16 @ 9:00 am	Date and Hour of Discovery	12/25/16 @ 9:00 am
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Maxey Brown			
By Whom?	Date and Hour 12/25/16, verbal via phone				
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.*

Produced water spill from injection trunk/lateral steel line. 13 bbls of produced water were recovered.

Describe Area Affected and Cleanup Action Taken.*

Isolated lease to repair steel line. Vacuum truck extracted standing liquid and recovered 13 bbls of produced water. Delineation of the site was completed and a remediation plan was put in place. Remediation was completed in accordance with the remediation plan approved by Olivia Yu of NMOCD via email on 02/01/2018.

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

Signature: 	OIL CONSERVATION DIVISION		
	Approved by Environmental Specialist:		
Printed Name: Josepha DeLeon	Approval Date:	Expiration Date:	
Title: Environmental Compliance Specialist	Conditions of Approval:		Attached <input type="checkbox"/>
E-mail Address: jdx@chevron.com			
Date: April 3, 2018	Phone: 432-425-1528		

* Attach Additional Sheets If Necessary

Chevron, Loving Paddock Unit

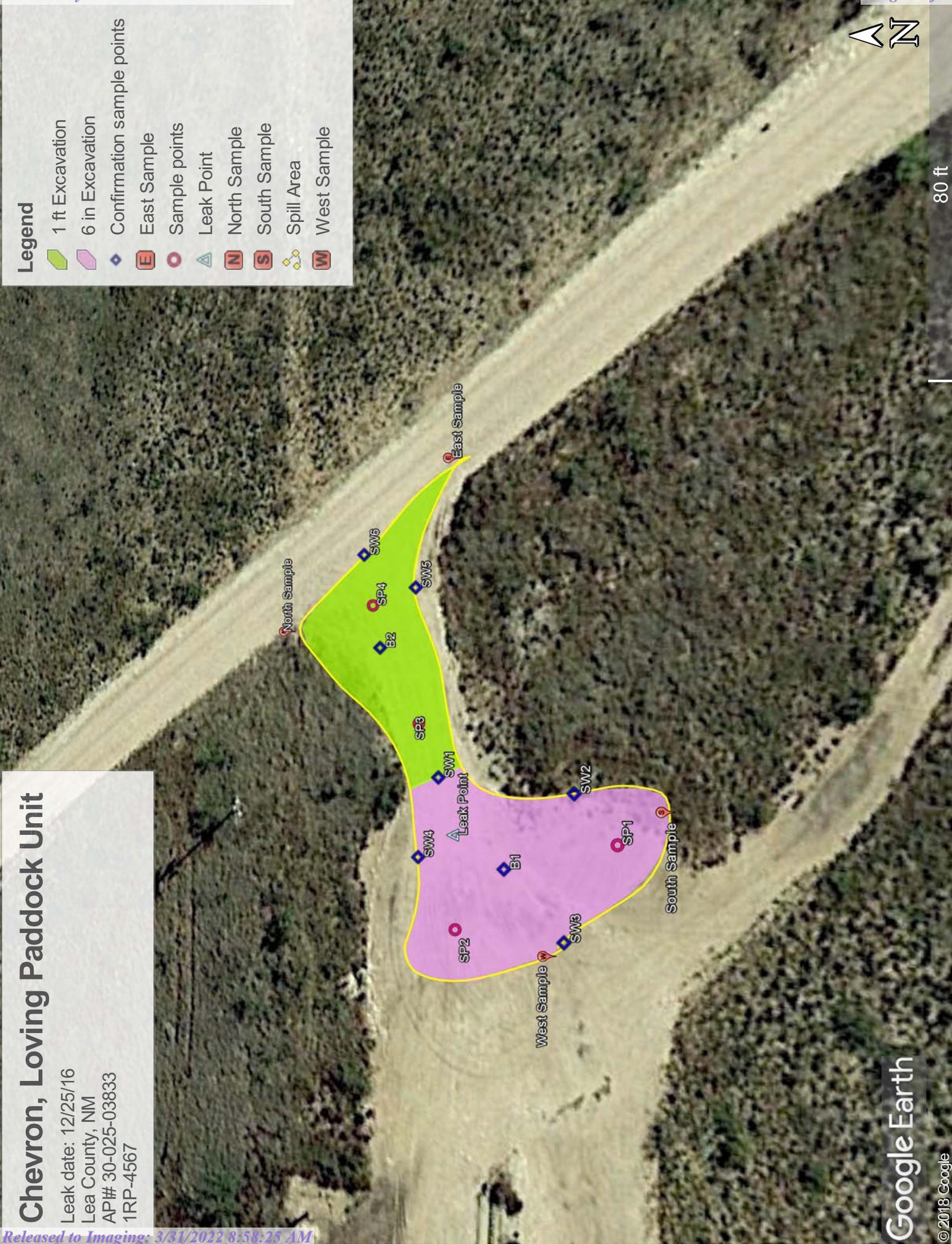
Leak date: 12/25/16
Lea County, NM
API# 30-025-03833
1RP-4567

Legend

-  1 ft Excavation
-  6 in Excavation
-  Confirmation sample points
-  East Sample
-  Sample points
-  Leak Point
-  North Sample
-  South Sample
-  Spill Area
-  West Sample



80 ft



Chevron, Lovington Paddock Unit

Sample Points, Hand Auger

SP1, GPS POINT: N 32.85841 W-103.30094

SP2, GPS POINT: N 32.85853 W-103.30103

SP3, GPS POINT: N 32.85857 W-103.30086

SP4, GPS POINT: N 32.85861 W-103.30076

NORTH SAMPLE, GPS POINT: N 32.85868 W-103.30078

SOUTH SAMPLE, GPS POINT: N 32.85837 W-103.30092

EAST SAMPLE, GPS POINT: N 32.85853 W-103.30064

WEST SAMPLE, GPS POINT: N 32.58545 W-103.30104

Confirmation sample points

SW1, N 32.85855 W-103.30090

SW2, N 32.85844 W-103.30091

SW3, N 32.85844 W-103.30102

SW4, N 32.85856 W-103.30097

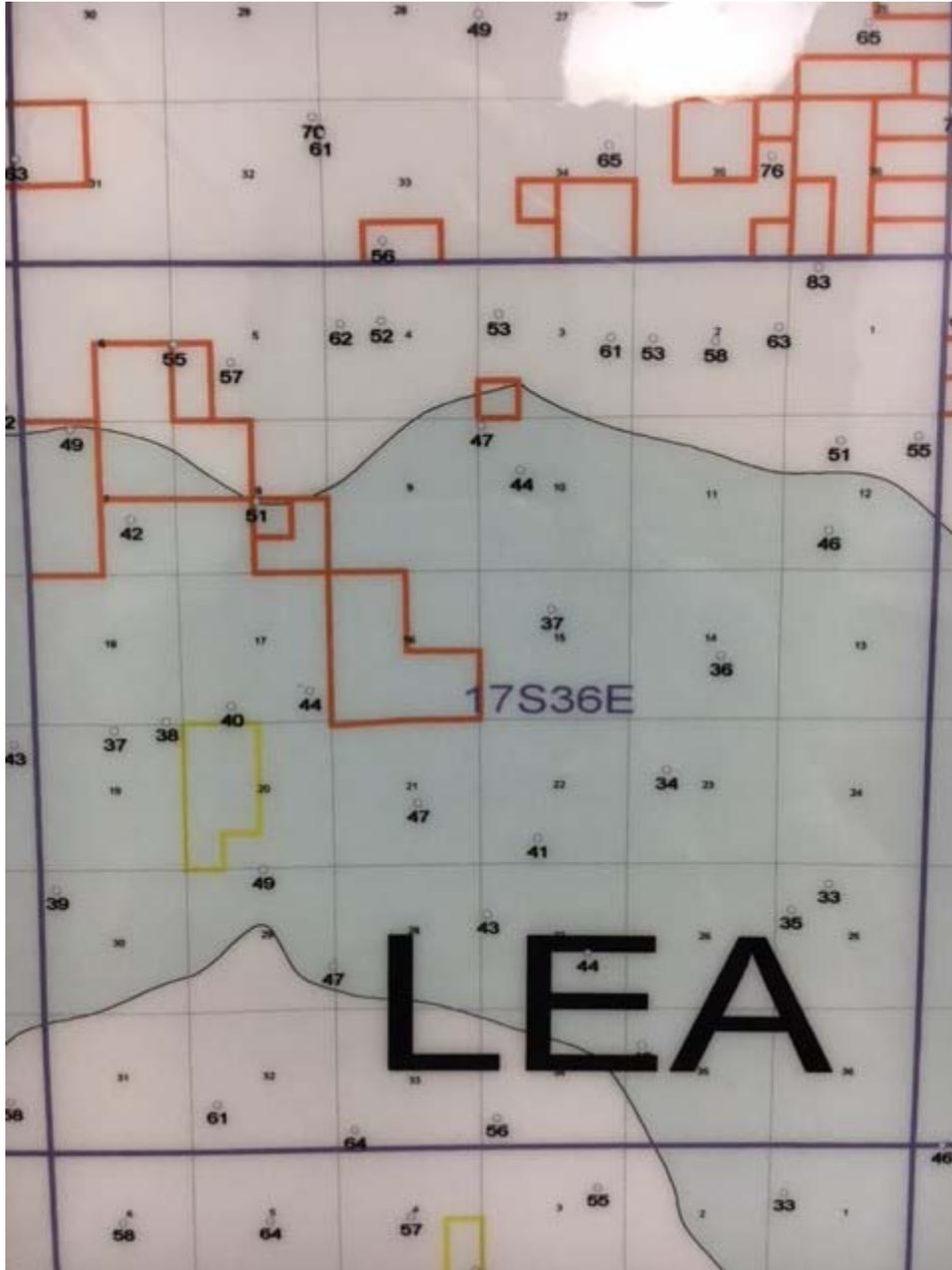
SW5, N 32.85857 W-103.30075

SW6, N 32.85861 W-103.30072

B1, N 32.85849 W-103.30097

B2, N 32.85860 W-103.30080

Chevron, Lovington Paddock Unit
U/L P, Section 1, T17S, R36E
Groundwater: 50'-75'





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 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	DepthWell	DepthWater	Water Column	
L_02331		L	LE	4	4	01	17S	36E	658933	3636888*	<input type="checkbox"/>	0	105	48	57	
L_10633 POD5		L	LE	2	4	4	01	17S	36E	659032	3636987*	<input type="checkbox"/>	140	228	120	108
L_10633 S2	R	L	LE		4	13	17S	36E	659032	3636987*	<input type="checkbox"/>	140	196	80	116	
L_10633 S4		L	LE	2	4	4	01	17S	36E	659032	3636987*	<input type="checkbox"/>	140	204	110	94
L_10633 POD4		L	LE	1	4	4	01	17S	36E	658832	3636987*	<input type="checkbox"/>	141	209	80	129
L_10633 S3		L	LE	4	4	4	01	17S	36E	659032	3636787*	<input type="checkbox"/>	141	188	80	108
L_10633 POD6		L	LE	3	4	4	01	17S	36E	658832	3636787*	<input type="checkbox"/>	142	196	80	116
L_10633 S	R	L	LE		4	13	17S	36E	659026	3637189*	<input type="checkbox"/>	315	228	120	108	
L_02205		L	LE	2	2	12	17S	36E	658939	3636485*	<input type="checkbox"/>	403	110	45	65	
L_10633	R	L	LE		4	13	17S	36E	659026	3637389*	<input type="checkbox"/>	509	209	80	129	
L_02474		L	LE	1	3	06	17S	37E	659331	3637296*	<input type="checkbox"/>	569	100	40	60	
L_01603 POD1		L	LE	1	1	07	17S	37E	659343	3636492*	<input type="checkbox"/>	570	120	39	81	
L_04359 S		L	LE	3	1	1	07	17S	37E	659242	3636391*	<input type="checkbox"/>	585	110	82	28
L_11558		L	LE	3	1	1	07	17S	37E	659242	3636391*	<input type="checkbox"/>	585	216		
L_04359		L	LE	1	2	1	07	17S	37E	659619	3636595*	<input type="checkbox"/>	745	111	75	36
L_04359	R	L	LE	1	2	1	07	17S	37E	659619	3636595*	<input type="checkbox"/>	745	111	75	36
L_04359 POD4		L	LE	1	2	1	07	17S	37E	659619	3636595*	<input type="checkbox"/>	745	222		
L_14207 POD1		L	LE	3	3	2	01	17S	36E	658500	3637679	<input type="checkbox"/>	901	240	100	140
L_02119		L	LE	1	4	3	01	17S	36E	658024	3636973*	<input type="checkbox"/>	912	130		
L_12562 POD11		L	LE	2	4	2	01	17S	36E	658989	3637831	<input type="checkbox"/>	945	112	97	15
L_00379		L	LE	1	2	1	12	17S	36E	658031	3636570*	<input type="checkbox"/>	956	110		
L_14207 POD2		L	LE	2	4	1	01	17S	36E	658222	3637712	<input type="checkbox"/>	1088	230	101	129
L_01963		L	LE	1	1	2	07	17S	37E	660021	3636599*	<input type="checkbox"/>	1125	150	132	18
L_06395		L	LE		4	1	12	17S	36E	658138	3636069*	<input type="checkbox"/>	1141	112	47	65
L_00449	R	L	LE	1	1	4	06	17S	37E	660008	3637404*	<input type="checkbox"/>	1192	100	70	30
L_00449 POD5		L	LE	1	1	4	06	17S	37E	660008	3637404*	<input type="checkbox"/>	1192	247	101	146
L_00449 POD5	R	L	LE	1	1	4	06	17S	37E	660008	3637404*	<input type="checkbox"/>	1192	247	101	146
L_01963 S		L	LE		1	2	07	17S	37E	660122	3636500*	<input type="checkbox"/>	1250	128	50	78
L_04988		L	LE		1	2	01	17S	36E	658510	3638089*	<input type="checkbox"/>	1273	195	55	140
L_02508		L	LE	2	2	2	01	17S	36E	659013	3638194*	<input type="checkbox"/>	1308	120	40	80

L_11198	L	LE	3	3	3	01	17S	36E	657620	3636766*	<input type="checkbox"/>	1318	186		
L_12823 POD1	L	LE	2	1	2	07	17S	37E	660221	3636599	<input type="checkbox"/>	1320	200		
L_00449 S2	L	LE		4	06		17S	37E	660317	3637104*	<input type="checkbox"/>	1400	243	118	125
L_00449 S2	R	L	LE		4	06	17S	37E	660317	3637104*	<input type="checkbox"/>	1400	243	118	125
L_05486	L	LE	2	3	1	01	17S	36E	657808	3637773*	<input type="checkbox"/>	1431	225	62	163
L_04988 S	L	LE	3	2	1	01	17S	36E	658006	3637982*	<input type="checkbox"/>	1433	182	55	127
L_12562 POD4	L	LE	4	4	2	36	16S	36E	658584	3638296	<input type="checkbox"/>	1451	121	106	15
L_01584 POD1	L	LE		2	1	01	17S	36E	658107	3638083*	<input type="checkbox"/>	1452	110	48	62
L_01371	L	LE	4	3	4	36	16S	36E	658603	3638389*	<input type="checkbox"/>	1536	115	45	70
L_13038 POD4	L	LE	2	3	2	06	17S	37E	660120	3637865	<input type="checkbox"/>	1537	120		
L_02561	L	LE	3	3	3	31	16S	37E	659210	3638403*	<input type="checkbox"/>	1540	137	50	87
L_13038 POD2	L	LE	2	3	2	06	17S	37E	660146	3637865	<input type="checkbox"/>	1557	115		
L_13038 POD3	L	LE	2	3	2	06	17S	37E	660146	3637865	<input type="checkbox"/>	1557	115		
L_13414 POD3	L	LE	2	3	2	06	17S	37E	660143	3637890	<input type="checkbox"/>	1571	110	93	17
L_13414 POD1	L	LE	4	1	2	06	17S	37E	660176	3637917	<input type="checkbox"/>	1614	110	93	17
L_02413	L	LE		4	4	02	17S	36E	657318	3636861*	<input type="checkbox"/>	1615	90	90	0
L_02426	L	LE		4	4	02	17S	36E	657318	3636861*	<input type="checkbox"/>	1615	115	48	67
L_13414 POD2	L	LE	4	1	2	06	17S	37E	660194	3637900	<input type="checkbox"/>	1617	102	93	9
L_11056	L	LE		2	2	07	17S	37E	660525	3636505*	<input type="checkbox"/>	1637	165	62	103
L_13414 POD4	L	LE	2	3	2	06	17S	37E	660248	3637870	<input type="checkbox"/>	1641	110	93	17
L_13038 POD1	L	LE	4	1	2	06	17S	37E	660223	3637928	<input type="checkbox"/>	1657	115		
L_01438	L	LE		3	4	36	16S	36E	658504	3638490*	<input type="checkbox"/>	1658	110	45	65
L_01220 POD1	L	LE		3	3	31	16S	37E	659311	3638504*	<input type="checkbox"/>	1659	120	55	65
L_02481	L	LE	4	4	2	02	17S	36E	657405	3637566*	<input type="checkbox"/>	1671	150	76	74
L_13414 POD5	L	LE	4	1	2	06	17S	37E	660218	3637979	<input type="checkbox"/>	1686	110	93	17

Average Depth to Water: **77 feet**
 Minimum Depth: **39 feet**
 Maximum Depth: **132 feet**

Record Count: 55

UTMNAD83 Radius Search (in meters):

Easting (X): 658933 **Northing (Y):** 3636888 **Radius:** 1700

*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.

3/22/17 3:45 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:

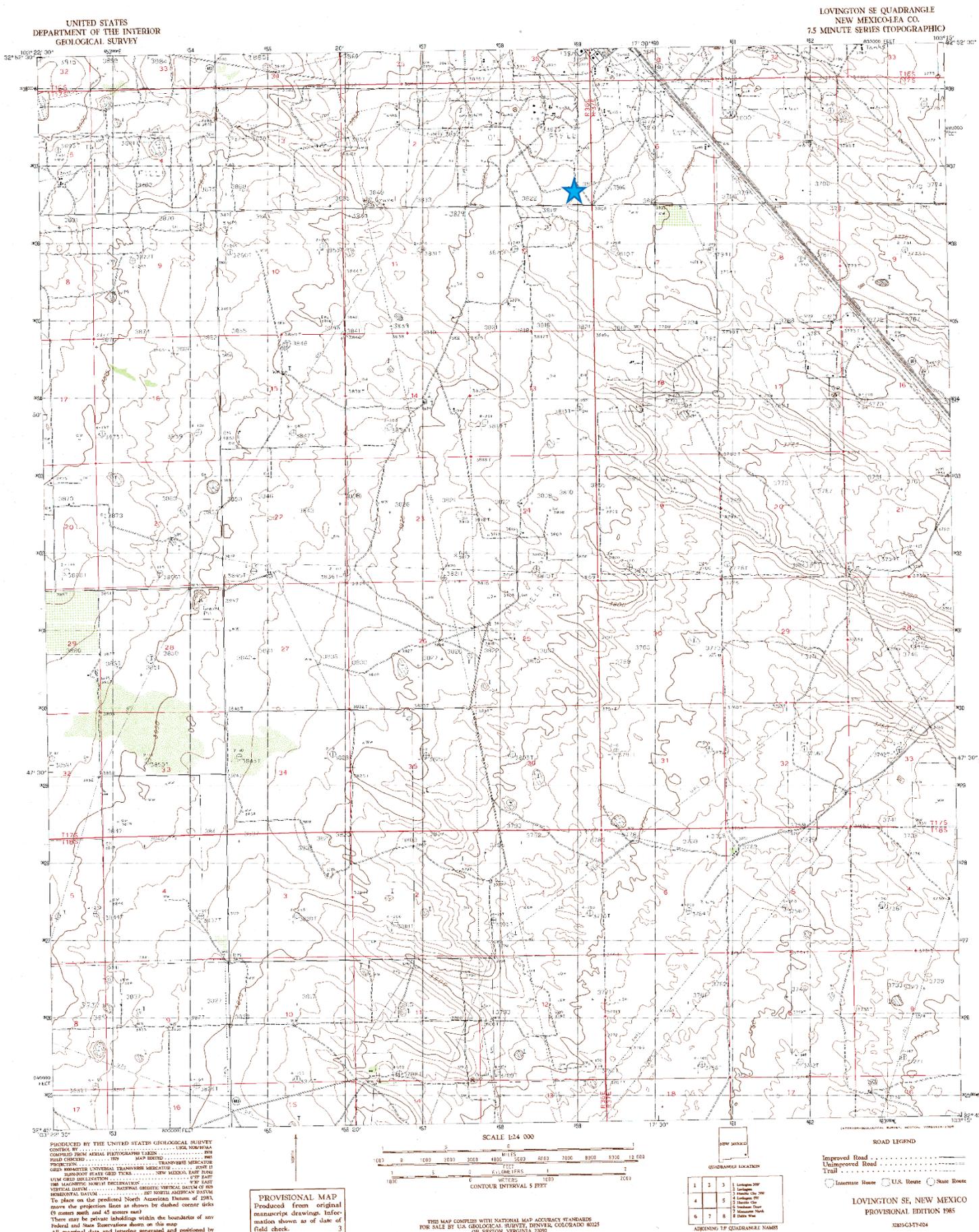
SUBMIT

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

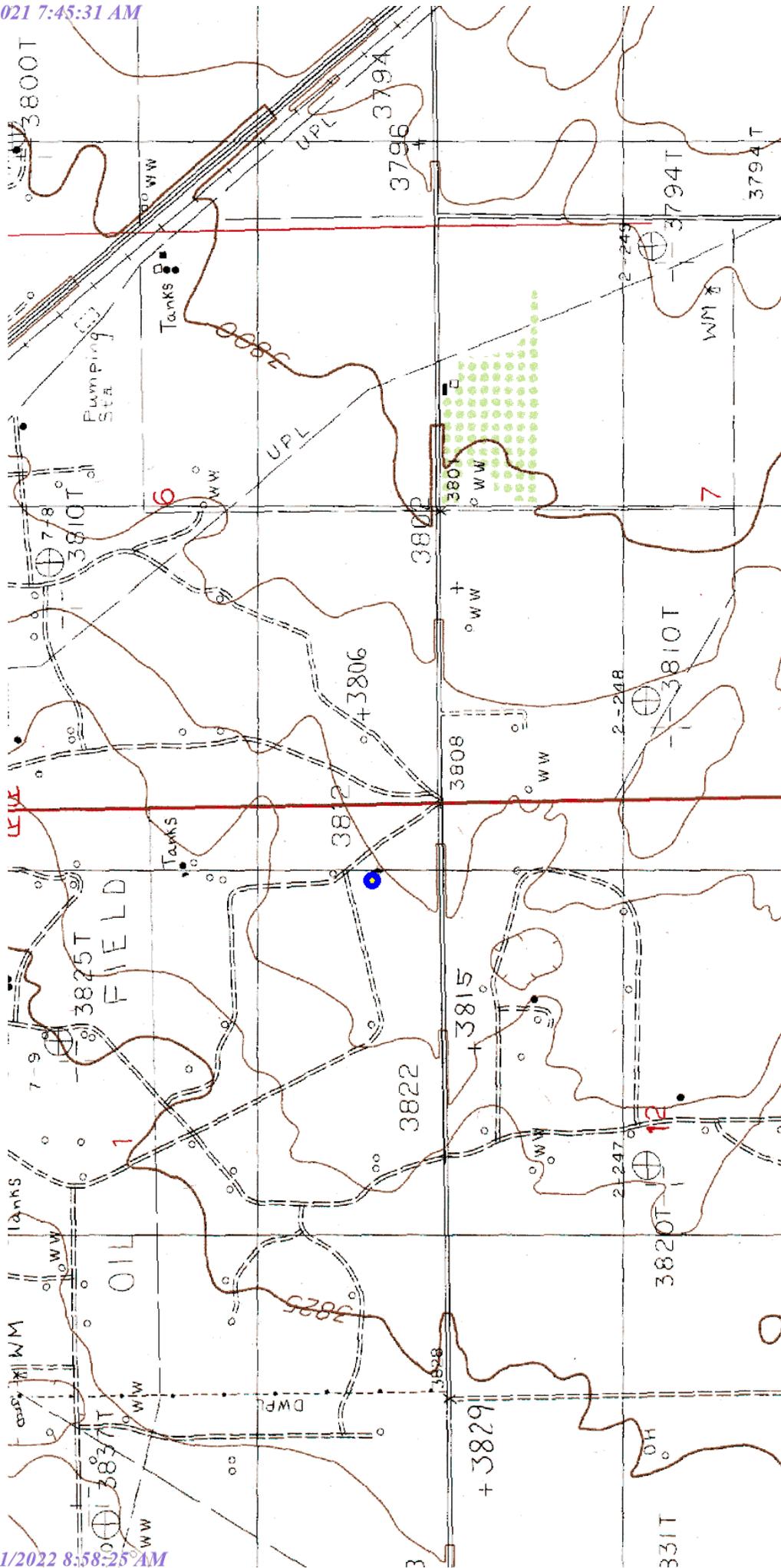
Easting (X): mtrs Northing (Y): mtrs

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

Lovington Paddock Unit



Chevron Lovington Paddock Unit



Laboratory Analytical Results Summary
 Lovington Paddock Unit

	Sample	SP1 @ SURFACE	SP1 @ 6"	SP1 @ 1'	SP1 @ 5'	SP1 @ 10'
Analyte	Date	2/10/17	2/10/17	2/10/17	1/15/18	1/15/18
	Method	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B	4000	544	48	208	208

	Sample	SP2 @ SURFACE	SP2 @ 6"	SP2 @ 1'	SP2 @ 5'	SP2 @ 10'
Analyte	Date	2/10/17	2/10/17	2/10/17	1/15/18	1/15/18
	Method	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B	3840	496	32	128	144

	Sample	SP3 @ SURFACE	SP3 @ 6"	SP3 @ 1'	SP3 @ 5'	SP3 @ 10'
Analyte	Date	2/10/17	2/10/17	2/10/17	1/15/18	1/15/18
	Method	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B	10000	784	64	96	192

	Sample	SP4 @ SURFACE	SP4 @ 6"	SP4 @ 1'	SP4 @ 5'	SP4 @ 10'
Analyte	Date	2/10/17	2/10/17	2/10/17	1/15/18	1/15/18
	Method	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	SM4500Cl-B	6000	752	<16.0	128	160

	Sample	NORTH @ SURFACE
Analyte	Date	2/10/17
	Method	mg/Kg
Chloride	SM4500Cl-B	<16.0

	Sample	EAST @ SURFACE
Analyte	Date	2/10/17
	Method	mg/Kg
Chloride	SM4500Cl-B	48

	Sample	WEST @ SURFACE
Analyte	Date	2/10/17
	Method	mg/Kg
Chloride	SM4500Cl-B	32

	Sample	SOUTH @ SURFACE
Analyte	Date	2/10/17
	Method	mg/Kg
Chloride	SM4500Cl-B	32

Laboratory Analytical Results Summary
 Lovington Paddock Unit

		SIDEWALL #1	
Analyte	Method	Sample ID	Date
			3/27/18
			mg/kg
Chloride	SM4500CH-B		48

		SIDEWALL #2	
Analyte	Method	Sample ID	Date
			3/27/18
			mg/kg
Chloride	SM4500CH-B		32

		SIDEWALL #3	
Analyte	Method	Sample ID	Date
			3/27/18
			mg/kg
Chloride	SM4500CH-B		48

		SIDEWALL #4	
Analyte	Method	Sample ID	Date
			3/27/18
			mg/kg
Chloride	SM4500CH-B		48

		SIDEWALL #5	
Analyte	Method	Sample ID	Date
			3/27/18
			mg/kg
Chloride	SM4500CH-B		64

		SIDEWALL #6	
Analyte	Method	Sample ID	Date
			3/27/18
			mg/kg
Chloride	SM4500CH-B		32

		BOTTOM #1	
Analyte	Method	Sample ID	Date
			3/27/18
			mg/kg
Chloride	SM4500CH-B		48

		BOTTOM #2	
Analyte	Method	Sample ID	Date
			3/27/18
			mg/kg
Chloride	SM4500CH-B		32



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

February 17, 2017

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LOVINGTON Paddock UNIT

Enclosed are the results of analyses for samples received by the laboratory on 02/13/17 11:40.

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,

A handwritten signature in black ink that reads "Celey D. Keene". The signature is written in a cursive style.

Celey D. Keene

Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2017	Sampling Date:	02/10/2017
Reported:	02/17/2017	Sampling Type:	Soil
Project Name:	LOVINGTON PADDOCK UNIT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOVINGTON, NM		

Sample ID: SP 1 @ SURFACE (H700361-01)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4000	16.0	02/16/2017	ND	416	104	400	7.41	

Sample ID: SP 1 @ 6" (H700361-02)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	02/16/2017	ND	416	104	400	7.41	

Sample ID: SP 1 @ 1' (H700361-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/17/2017	ND	448	112	400	3.64	

Sample ID: SP 2 @ SURFACE (H700361-04)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3840	16.0	02/17/2017	ND	448	112	400	3.64	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2017	Sampling Date:	02/10/2017
Reported:	02/17/2017	Sampling Type:	Soil
Project Name:	LOVINGTON PADDOCK UNIT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOVINGTON, NM		

Sample ID: SP 2 @ 6" (H700361-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	496	16.0	02/17/2017	ND	448	112	400	3.64	

Sample ID: SP 2 @ 1' (H700361-06)

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	02/17/2017	ND	448	112	400	3.64	

Sample ID: SP 3 @ SURFACE (H700361-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	10000	16.0	02/17/2017	ND	448	112	400	3.64	

Sample ID: SP 3 @ 6" (H700361-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	784	16.0	02/17/2017	ND	448	112	400	3.64	

Sample ID: SP 3 @ 1' (H700361-09)

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	02/17/2017	ND	448	112	400	3.64	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2017	Sampling Date:	02/10/2017
Reported:	02/17/2017	Sampling Type:	Soil
Project Name:	LOVINGTON PADDOCK UNIT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOVINGTON, NM		

Sample ID: SP 4 @ SURFACE (H700361-10)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	02/17/2017	ND	448	112	400	3.64	

Sample ID: SP 4 @ 6" (H700361-11)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	752	16.0	02/17/2017	ND	448	112	400	3.64	

Sample ID: SP 4 @ 1' (H700361-12)

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	02/17/2017	ND	448	112	400	3.64	

Sample ID: NORTH @ SURFACE (H700361-13)

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	02/17/2017	ND	448	112	400	3.64	

Sample ID: EAST @ SURFACE (H700361-14)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	02/17/2017	ND	448	112	400	3.64	

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	02/13/2017	Sampling Date:	02/10/2017
Reported:	02/17/2017	Sampling Type:	Soil
Project Name:	LOVINGTON PADDOCK UNIT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOVINGTON, NM		

Sample ID: WEST @ SURFACE (H700361-15)

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	02/17/2017	ND	448	112	400	3.64	

Sample ID: SOUTH @ SURFACE (H700361-16)

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	02/17/2017	ND	448	112	400	3.64	

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Celey D. Keene, Lab Director/Quality Manager



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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

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keene, Lab Director/Quality Manager



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. Project Manager: Cliff Brunson Address: P. O. Box 805 City: Hobbs Phone #: 575-397-6388 Project #: _____ Project Name: <i>Lovington Project Unit</i> Project Location: <i>Lovington NM</i> Sampler Name: <i>✓</i>		State: NM zip: 88241 Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____	
P. O. #: _____ Company: _____ Attn: _____ Address: _____ City: _____ State: _____ Zip: _____ Phone #: _____ Fax #: _____			
FOR LAB USE ONLY			
Lab I.D. H700361	Sample I.D. SP1051R SP2051R SP3051R SP4051R	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE OTHER : ACID/BASE: ICE / COOL OTHER :	MATRIX PRESERV SAMPLING
		DATE 2-10 TIME 845 930 1015 1100 1130 1200 111 130 157 158	C-1

PLEASE NOTE: Liability and Damages: Customer's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived 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 incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: *[Signature]* Date: *2/13/17* Time: *11:40*

Received By: *[Signature]* Date: _____ Time: _____

Delivered By: (Circle One)
 Sampler - UPS - Bus - Other: *#75-1.30*

Sample Condition
 Cool Intact
 Yes No
 Yes No

CHECKED BY: *[Signature]*

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



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

2/2

Company Name: BBC International, Inc. **BILL TO** ANALYSIS REQUEST

Project Manager: Cliff Brunson P.O. #:

Address: P.O. Box 805 State: NM Zip: 88241 Company:

City: Hobbs Attn:

Phone #: 575-397-6388 Fax #: 575-397-0397 Address:

Project #: Project Owner: *Devron* City:

Project Name: *Longhorn Project Unit* State: zip:

Project Location: *Longhorn, NM* Phone #:

Sampler Name: *16* Fax #:

FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						DATE	TIME	SAMPLING
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :			
H700361	SP 906	G	1			X				2/10	219	✓
	11	G	1			X					230	✓
	12	G	1			X					233	✓
	13	G	1			X					235	✓
	14	G	1			X					239	✓
	15	G	1			X					258	✓
	16	G	1			X						✓

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, 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 Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Reinquired By: *[Signature]* Date: *8/11/21* Received By: *[Signature]* Date: *8/11/21*

Reinquished By: *[Signature]* Date: *8/11/21* Received By: *[Signature]* Date: *8/11/21*

Delivered By: (Circle One) UPS Bus Other *#75 - 1.30c*

Sample Condition: Cool Intact Yes No Checked By: *[Signature]*

REMARKS: Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 † Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



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

January 19, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LOVINGTON Paddock UNIT

Enclosed are the results of analyses for samples received by the laboratory on 01/16/18 11:50.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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



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

Analytical Results For:

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

Received:	01/16/2018	Sampling Date:	01/15/2018
Reported:	01/19/2018	Sampling Type:	Soil
Project Name:	LOVINGTON PADDOCK UNIT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOVINGTON, NM		

Sample ID: SP 1 @ 5' (H800166-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/18/2018	ND	416	104	400	3.77	

Sample ID: SP 1 @ 10' (H800166-02)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	208	16.0	01/18/2018	ND	416	104	400	3.77	

Sample ID: SP 2 @ 5' (H800166-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/18/2018	ND	416	104	400	3.77	

Sample ID: SP 2 @ 10' (H800166-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	01/18/2018	ND	416	104	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Analytical Results For:

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

Received:	01/16/2018	Sampling Date:	01/15/2018
Reported:	01/19/2018	Sampling Type:	Soil
Project Name:	LOVINGTON PADDOCK UNIT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LOVINGTON, NM		

Sample ID: SP 3 @ 5' (H800166-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	01/18/2018	ND	416	104	400	3.77	

Sample ID: SP 3 @ 10' (H800166-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	192	16.0	01/18/2018	ND	416	104	400	3.77	

Sample ID: SP 4 @ 5' (H800166-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	01/18/2018	ND	416	104	400	7.41	

Sample ID: SP 4 @ 10' (H800166-08)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	160	16.0	01/18/2018	ND	416	104	400	7.41	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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

Notes and Definitions

- 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

*=Accredited Analyte

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager



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

March 28, 2018

Cliff Brunson

BBC International, Inc.

P.O. Box 805

Hobbs, NM 88241

RE: LOVINGTON Paddock UNIT

Enclosed are the results of analyses for samples received by the laboratory on 03/28/18 8:25.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-17-10. 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



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

Analytical Results For:

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

Received:	03/28/2018	Sampling Date:	03/27/2018
Reported:	03/28/2018	Sampling Type:	Soil
Project Name:	LOVINGTON PADDOCK UNIT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOVINGTON, NM		

Sample ID: SIDEWALL # 1 (H800865-01)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/28/2018	ND	432	108	400	3.77	

Sample ID: SIDEWALL # 2 (H800865-02)

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	03/28/2018	ND	432	108	400	3.77	

Sample ID: SIDEWALL # 3 (H800865-03)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/28/2018	ND	432	108	400	3.77	

Sample ID: SIDEWALL # 4 (H800865-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/28/2018	ND	432	108	400	3.77	

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



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Analytical Results For:

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

Received:	03/28/2018	Sampling Date:	03/27/2018
Reported:	03/28/2018	Sampling Type:	Soil
Project Name:	LOVINGTON PADDOCK UNIT	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Tamara Oldaker
Project Location:	LOVINGTON, NM		

Sample ID: SIDEWALL # 5 (H800865-05)

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	03/28/2018	ND	432	108	400	3.77	

Sample ID: SIDEWALL # 6 (H800865-06)

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	03/28/2018	ND	432	108	400	3.77	

Sample ID: BOTTOM # 1 (H800865-07)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	03/28/2018	ND	432	108	400	3.77	

Sample ID: BOTTOM # 2 (H800865-08)

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	03/28/2018	ND	432	108	400	3.77	

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Celey D. Keene, Lab Director/Quality Manager



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Notes and Definitions

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

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Celey D. Keene, Lab Director/Quality Manager



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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

Company Name: **BBC International, Inc.** P.O. #:
 Project Manager: **Cliff Brunson** Company:
 Address: **P.O. Box 805** City: **Hobbs** State: **NM** zip: **88241** Attn:
 Phone #: **575-397-6388** Fax #: **575-397-0397** Address:
 Project #: Project Owner: **CHERRON** City:
 Project Name: **Livingston Paddock Unit** State: Zip:
 Project Location: Phone #:
 Sampler Name: **Roger Hernandez** Fax #:
 FOR LAB USE ONLY

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX						PRESERV.			DATE	TIME	ANALYSIS
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	ACID/BASE:	ICE / COOL	OTHER :			
1800865	Side well # 1	C	1										3-27-18	100	✓
	Side well # 2	C	1										3-27-18	110	✓
	Side well # 3	C	1										3-27-18	120	✓
	Side well # 4	C	1										3-27-18	130	✓
	Side well # 5	C	1										3-27-18	140	✓
	Side well # 6	C	1										3-27-18	150	✓
	Bottom # 1	C	1										3-27-18	200	✓
	Bottom # 2	C	1										3-27-18	210	✓

~~CHLORIDE~~ CHLORIDE

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Relinquished By: **Roger Hernandez** Date: **3-28-18** Type: **D** Received By: **Janora** Date: **3-28-18** Type: **D**
 Delivered By: **Janora** (Circle One) Sample Condition: Cool Intact Yes No
 Sampler - UPS - Bus - Other: **Conserved -4.85°C** Yes No No No
 CHECKED BY: **Janora** (Initials) **YO #15**
 Phone Result: Yes No Add'l Phone #:
 Fax Result: Yes No Add'l Fax #:
 REMARKS: **RUSH !!**

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

1611

From: Yu, Olivia, EMNRD
To: [Cliff Brunson](#); "[DeLeon, Josepha](#)"
Cc: "[Ken Swinney](#)"; "[Jennifer Gilkey](#)"; "[Kathy Purvis](#)"
Subject: RE: Lovington Paddock Unit - Delineation Workplan
Date: Thursday, February 1, 2018 8:04:18 AM
Attachments: [image002.png](#)
[approved_1RP4567_Delineation Workplan Lovington Paddock Unit.pdf](#)

Mr. Brunson:

NMOCD approves of the delineation completed and proposed remediation for 1RP-4567 with these conditions:

1. Confirmation bottom and sidewall samples at no greater than 50 ft. apart. Establish at least one sample location between the border of SP1/SP2 & SP3/SP4.
2. Include an appropriately scaled map with confirmation sample locations marked with GPS coordinates in the remediation report.
3. Photo documentation of remedial activities.

Please confirm or inform for clarification.

Thanks,

Olivia Yu
Environmental Specialist
NMOCD, District I
Olivia.yu@state.nm.us
575-393-6161 x113

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Friday, January 26, 2018 2:02 PM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; 'DeLeon, Josepha' <JDXD@chevron.com>
Cc: 'Ken Swinney' <kswinney@bbcinternational.com>; 'Jennifer Gilkey' <jgilkey@bbcinternational.com>; 'Kathy Purvis' <kathy@bbcinternational.com>
Subject: RE: Lovington Paddock Unit - Delineation Workplan

Olivia,

BBC conducted additional delineation at the Chevron Lovington Paddock Unit release site on January 15, 2018 as per your instructions below. I have attached the Delineation Workplan that has been updated with the additional deeper sampling data.

Chevron looks forward to receiving the NMOCD's approval of this plan, so the release site can be scheduled to be remediated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS
President
BBC International, Inc.
World-Wide Environmental Specialists
Mailing Address:
P. O. Box 805
Hobbs, NM 88241-0805 USA
Shipping Address:
1324 W. Marland St.
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From: Yu, Olivia, EMNRD [<mailto:Olivia.Yu@state.nm.us>]
Sent: Friday, December 22, 2017 1:54 PM
To: DeLeon, Josepha <JDXD@chevron.com>
Cc: Cliff Brunson <cbrunson@bbcinternational.com>
Subject: RE: Lovington Paddock Unit - Delineation Workplan

Dear Ms. DeLeon:

Due to the depth to groundwater and that there are numerous NMOSE water wells within 1000 ft. of the release area, delineation is not completed for 1RP-4567. Permissible chloride levels must be obtained and maintained for 10 ft. further in depth. Permissible chloride levels are 600 mg/kg.

Thanks,

Olivia Yu
Environmental Specialist
NMOCD, District I
Olivia.yu@state.nm.us
575-393-6161 x113

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From: DeLeon, Josepha [<mailto:JDxD@chevron.com>]
Sent: Wednesday, December 6, 2017 10:40 AM
To: Yu, Olivia, EMNRD <Olivia.Yu@state.nm.us>; Brown, Maxey G, EMNRD <MaxeyG.Brown@state.nm.us>
Cc: Cliff Brunson <cbrunson@bbcinternational.com>
Subject: Lovington Paddock Unit - Delineation Workplan

Attached is the work plan for the Lovington Paddock Unit.

*Josie DeLeon, HES Specialist -
Compliance Support - Environmental*
**Chevron - MCBU
(New Mexico, East Texas and Ft. Stockton Areas)**
1616 W. Bender Blvd.
Hobbs, NM 88240
575-263-0424
432-425-1528 - cell
jdxd@chevron.com





















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District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170

District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 41168

CONDITIONS

Operator: CHEVRON U S A INC 6301 Deauville Blvd Midland, TX 79706	OGRID: 4323
	Action Number: 41168
	Action Type: [C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
jnobui	Closure Report Approved.	3/31/2022