



31 October 2014

Mr. Mike Bratcher  
Environmental Specialist  
NMOCD  
811 S. First St.  
Artesia, New Mexico 88210

**Re: Initial C-141  
Chevron  
Indian Draw Tank Battery  
UL-J, Section 18, Township 22 South, Range 28 East  
Eddy County, New Mexico**

Mr. Bratcher:

Environmental Plus, Inc. (EPI), on behalf of Mr. Stephen Gwin, Chevron Corporation (Chevron), submits the attached form C-141 for the above-referenced leak site, located on land owned by the BLM.

The site is located approximately six (6) miles east of Carlsbad, New Mexico (reference *Figure 1*). A search for water wells was completed utilizing the New Mexico Office of the State Engineer's website and a United States Geological Survey (USGS) database. A total of eleven (11) wells are located in the area surrounding the release site (reference *Table 1*). No wells (domestic, agriculture or public) and no bodies of surface water exist within a 1,000-foot radius of the release site (reference *Figure 2*). Groundwater data indicated the average water depth is approximately 25 feet below ground surface (bgs). The attached site information and metrics form ranks the site in accordance with the NMOCD Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993).

Approximately 13 bbls of produced water and oil were released when a valve was left open and fluid gravity fed to the ground; approximately 11 bbls were recovered (reference *Figure 3* and attached photographs). Based on available information, it was projected distance between impacted soil and groundwater is approximately 25 vertical feet. Utilizing this information, NMOCD Recommended Remedial Action Levels (RRALs) for this Site were determined as follows:

Parameter	Recommended Remedial Action Level
Benzene	10 parts per million
BTEX	50 parts per million
TPH	100 parts per million
Chloride	250 parts per million

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This tank battery is scheduled to be replaced in February 2015 with construction of the new battery location currently underway. Chevron proposes the stained caliche in the area of the release be removed, hauled to state approved disposal facility, and replaced with clean caliche. Full remediation of the old tank battery area shall occur when the new tank battery comes online.

Should you have any questions or concerns please feel free to contact me at (575) 394-3481 or via e-mail at [ddominguezepi@gmail.com](mailto:ddominguezepi@gmail.com) or Mr. Stephen Gwin at (575) 263-0427 or via e-mail at [stephen.gwin@chevron.com](mailto:stephen.gwin@chevron.com). All official communication should be addressed to:

Mr. Stephen Gwin  
Chevron Delaware Basin, Hobbs FMT  
1616 West Bender  
Hobbs, New Mexico 88240

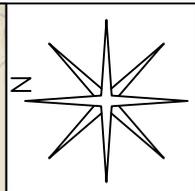
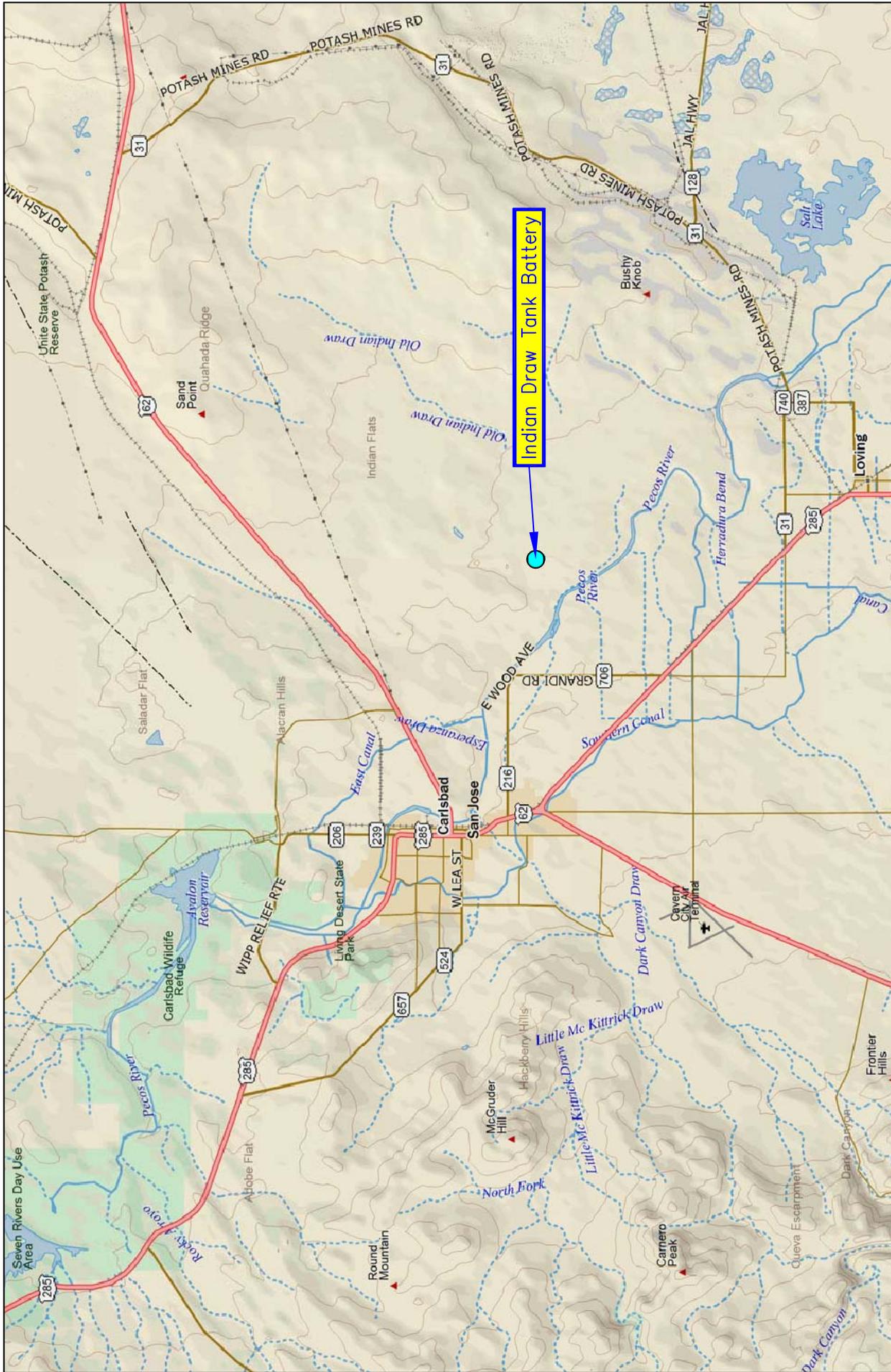
Sincerely,

ENVIRONMENTAL PLUS, INC.

Daniel Dominguez  
Environmental Consultant

cc: Stephen Gwin – HE Specialist, Chevron – Hobbs, NM  
Jim Amos – BLM – Carlsbad, NM  
File

## **FIGURES**



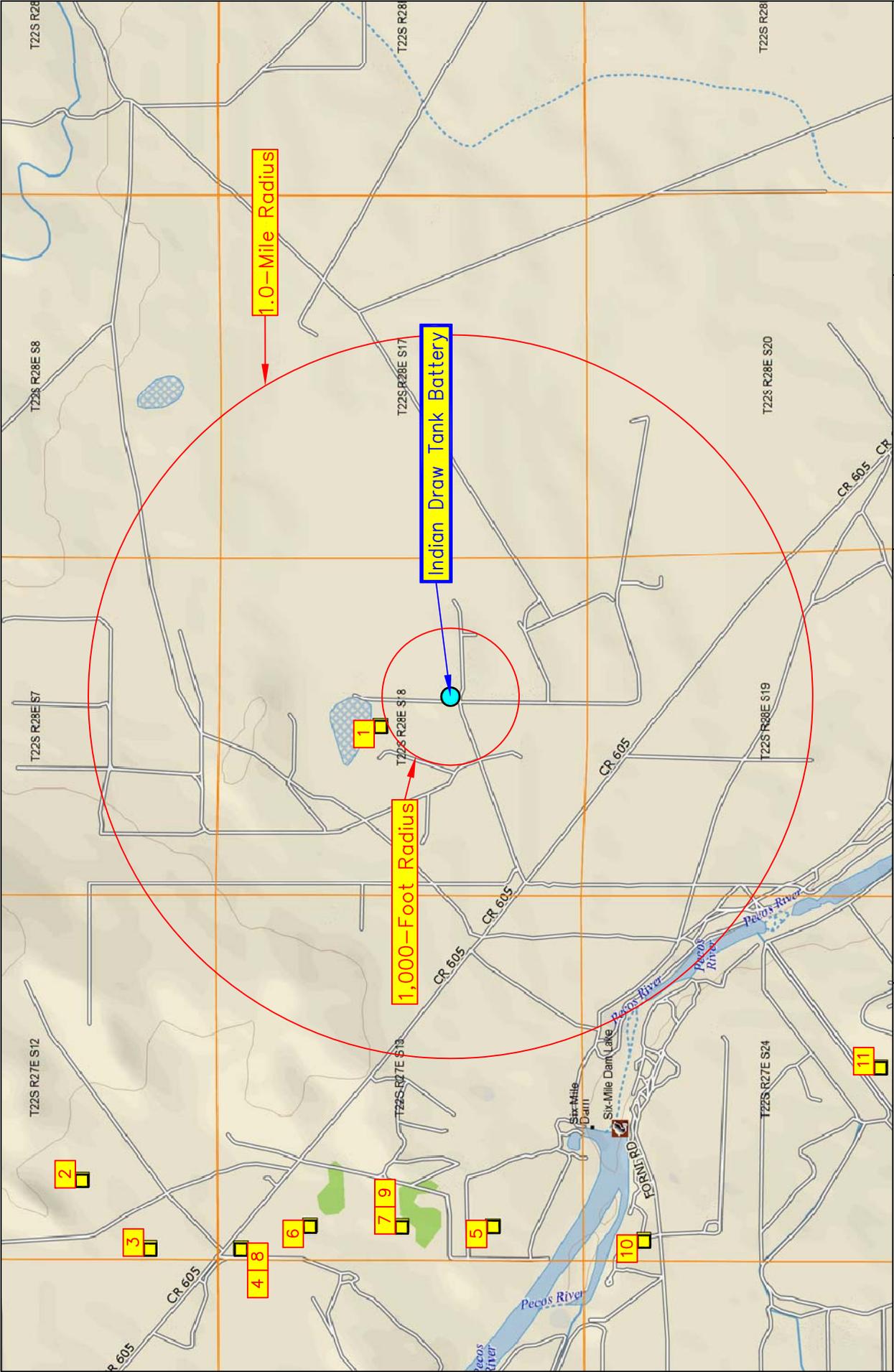
REvised: DWG By: D Dominguez  
 October 2014

0 3 6 Miles

SHEET 1 of 1

Eddy County, New Mexico  
 NW 1/4 of SE 1/4, Sec. 18, T2S, R28E  
 N 32° 23' 26.79" W 104° 7' 27.90"  
 Elevation: 3,084 feet amsl

Figure 1  
 Area Map  
 Chevron  
 Indian Draw Tank Battery



REVISED:

DWG By: D Dominguez  
October 2014

0 2,000 4,000 SHEET  
1 of 1

Feet

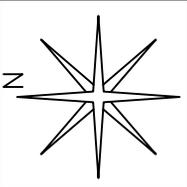
Eddy County, New Mexico  
NW 1/4 of SE 1/4, Sec. 18, T22S, R28E  
N 32° 23' 26.79" W 104° 7' 27.90"  
Elevation: 3,084 feet amsl

Figure 2  
Site Location Map  
Chevron  
Indian Draw Tank Battery



Release Area  
(~3,000 sq. ft.)

LEGEND



REVISED:

DWG By: D Dominguez  
October 2014

60  
0 SHEET  
1 of 1

Eddy County, New Mexico  
NW 1/4 of SE 1/4, Sec. 18, T22S, R28E  
N 32° 23' 26.79" W 104° 7' 27.90"  
Elevation: 3,084 feet amsl

Figure 3  
Site Map  
Chevron  
Indian Draw Tank Battery

## **TABLES**

**TABLE 1**  
**Well Data**

**Chevron - Indian Draw Tank Battery**

Ref #	Well Number	Use	Diversion <sup>A</sup>	Owner	q64	q16	q4	Sec	Twsp	Rng	Easting	Northing	Date Measured	Surface Elevation <sup>B</sup>	Depth to Water (ft bgs)
1	C 01508	PRO	0	AMOCO PRODUCTION COMPANY	1	1	4	18	22S	28E	582206	3584195	25-Aug-73	3,081	
2	C 02529	DOM	3	CARLA SLUSHER			3	12	22S	27E	580174	3585501	05-Sep-98	3,083	51
3	C 01088	DOM	3	GEORGE E. MCGONAGILL, JR.	3	3	3	12	22S	27E	579872	3585199	13-Aug-62	3,072	36
4	C 00836	DOM	3	WILLIAM T. WELDY	3	1	1	13	22S	27E	579874	3584794	20-Jul-68	3,068	52
5	C 00971	DOM	3	JOHN SEARS		3	3	13	22S	27E	579981	3583679	13-Oct-60	3,064	18
6	C 01590	DOL	3	MARY E CHISM		3	1	13	22S	27E	579977	3584489	30-Jun-75	3,068	40
7	C 01677	PRO	3	PATRICK F EDEAL, JR		1	3	13	22S	27E	579979	3584084	19-May-76	3,066	20
8	C 01722	DOM	3	DEWEY CONNELL		3	1	13	22S	27E	579874	3584794	10-Sep-77	3,068	64
9	C 03126	PRO	0	MEWBOURNE OIL		1	3	13	22S	27E	579979	3584084	19-May-76	3,066	20
10	C 03514	DOM	1	BARBARA BALLA		1	3	1	24	22S	579923	3583010	19-Aug-11	3,075	31
11	C 00294	IRR	837	FERGUSON FARMS ( PARTNERSHIP)	3	3	4	24	22S	27E	580701	3581970	24-Feb-52	3,058	15

\* = Data obtained from the New Mexico Office of the State Engineer Website ([http://iwaters.ose.state.nm.us:7001/iWATERS/wr\\_RegisServlet](http://iwaters.ose.state.nm.us:7001/iWATERS/wr_RegisServlet)) and USGS Database

<sup>A</sup> = In acre feet per annum

<sup>B</sup> = Elevation interpolated from USGS topographical map based on referenced location.

PRO = 72-12-1 Prospecting or development of a natural resource

DOM = 72-12-1 Domestic one household

DOL = 72-12-1 Domestic and Livestock watering

IRR = Irrigation

quarters are 1=NW, 2=NE, 3=SW, 4=SE; quarters are smallest to biggest

**ATTACHMENTS**

**ATTACHMENT I  
PHOTOGRAPHS**



Photograph #1- Lease sign



Photograph #2- Looking across tank battery.



Photograph #3- Looking across release area.



Photograph #4- Looking across release area.



Photograph #5- Looking across release area.



Photograph #6- Looking across release area.

**ATTACHMENT II  
INFORMATION AND METRICS  
INITIAL C-141**

Information and Metrics		<b>Incident Date:</b> 10/18/14	<b>NMOCD Notified:</b> 10/20/14
<b>Site:</b> Indian Draw Tank Battery		<b>Assigned Site Reference #:</b>	
<b>Company:</b> Chevron			
<b>Street Address:</b> 2401 Avenue 'O'			
<b>Mailing Address:</b>			
<b>City, State, Zip:</b> Eunice, NM 88231			
<b>Representative:</b> Stephen Gwin			
<b>Representative Telephone:</b> (575) 263-0427			
<b>Telephone:</b>			
<b>Fluid volume released (bbls):</b> ~13 bbls		<b>Recovered (bbls):</b> ~11 bbls	
>25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days. (Also applies to unauthorized releases >500 mcf Natural Gas)			
5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)			
<b>Leak, Spill, or Pit (LSP) Name:</b> Indian Draw Tank Battery			
<b>Source of contamination:</b> valve was left open			
<b>Land Owner, i.e., BLM, ST, Fee, Other:</b> BLM			
<b>LSP Dimensions:</b> ~132 feet by 48 feet			
<b>LSP Area:</b> ~3,000 ft <sup>2</sup>			
<b>Location of Reference Point (RP):</b>			
<b>Location distance and direction from RP:</b>			
<b>Latitude:</b> N 32° 23' 26.79"			
<b>Longitude:</b> W 104° 7' 27.90"			
<b>Elevation above mean sea level:</b> 3,084 feet			
<b>Feet from North Section Line:</b>			
<b>Feet from West Section Line:</b>			
<b>Location- Unit or 1/4:</b> NW <sup>1</sup> / <sub>4</sub> of the SE <sup>1</sup> / <sub>4</sub>		<b>Unit Letter:</b> J	
<b>Location- Section:</b> 18			
<b>Location- Township:</b> T22S			
<b>Location- Range:</b> R28E			
<b>Surface water body within 1000' radius of site:</b> none			
<b>Domestic water wells within 1000' radius of site:</b> none			
<b>Agricultural water wells within 1000' radius of site:</b> none			
<b>Public water supply wells within 1000' radius of site:</b> none			
<b>Depth from land surface to ground water (DG):</b> ~ 25'			
<b>Depth of contamination (DC):</b> unknown			
<b>Depth to ground water (DG – DC = DtGW):</b> ~ 25'			
<b>1. Ground Water</b>		<b>2. Wellhead Protection Area</b>	<b>3. Distance to Surface Water Body</b>
If Depth to GW <50 feet: 20 points		If <1000' from water source, or; <200' from private domestic water source: 20 points	<200 horizontal feet: 20 points
If Depth to GW 50 to 99 feet: 10 points		If >1000' from water source, or; >200' from private domestic water source: 0 points	200-100 horizontal feet: 10 points
If Depth to GW >100 feet: 0 points			>1000 horizontal feet: 0 points
<b>Site Rank (1+2+3) = 20 + 0 + 0 = 20</b>			
<b>Total Site Ranking Score and Acceptable Concentrations</b>			
Parameter	>19	10-19	0-9
Benzene <sup>1</sup>	10 ppm	10 ppm	10 ppm
BTEX <sup>1</sup>	50 ppm	50 ppm	50 ppm
TPH	100 ppm	1,000 ppm	5,000 ppm
<sup>1</sup> 100 ppm field VOC headspace measurement may be substituted for lab analysis			

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised October 10, 2003

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

<b>Name of Company:</b> Chevron	<b>Contact:</b> Stephen Gwin
<b>Address:</b> 2401 Avenue 'O' Eunice, NM 88231	<b>Telephone No.:</b> (575) 263 - 0427
<b>Facility Name:</b> Indian Draw Tank Battery	<b>Facility Type:</b> tank battery
<b>Surface Owner:</b> BLM	<b>Mineral Owner:</b>
<b>API:</b>	

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
J	18	22S	28E					Eddy

**Latitude:** N 32° 23' 26.79" **Longitude:** W 104° 7' 27.90"

**NATURE OF RELEASE**

<b>Type of Release:</b> produced water and oil	<b>Volume of Release:</b> ~13 bbls	<b>Volume Recovered:</b> ~11 bbls
<b>Source of Release:</b> valve was left open and fluid gravity fed to the ground	<b>Date and Hour of Occurrence:</b> 10/18/14 @ am	<b>Date and Hour of Discovery:</b> 10/18/14 @ 5:00 am
<b>Was Immediate Notice Given?</b> <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	<b>If YES, To Whom?</b> Mike Bratcher, NMOCD	
<b>By Whom?</b> Stephen Gwin	<b>Date and Hour:</b> 10/20/14	
<b>Was a Watercourse Reached?</b> <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<b>If YES, Volume Impacting the Watercourse:</b> Not Applicable	

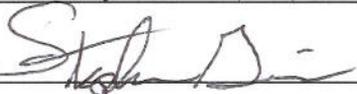
**Depth to Water.** ~25 ft bgs

**If a Watercourse was Impacted, Describe Fully.\*** Not Applicable

**Describe Cause of Problem and Remedial Action Taken.\*** Approximately 13 bbls of produced water and oil were released when a valve was left open and fluid gravity fed to the ground. A vacuum truck was dispatched to pick up any free standing liquids. Approximately 11 bbls were recovered.

**Describe Area Affected and Cleanup Action Taken.\*** Approximately 3,000 square feet of surface area was impacted by the release. This tank battery is scheduled to be replaced in February 2015 with construction of the new battery location currently underway. Chevron proposes the stained caliche in the area of the release be removed, hauled to state approved disposal facility, and replaced with clean caliche. Full remediation of the old tank battery area shall occur when the new tank battery comes online. At that time soil samples will be collected from the area and submitted to Cardinal Laboratories for testing. Upon receipt of laboratory analytical data from soil samples to be collected during delineation operations, EPI will prepare and present a Remediation Proposal for NMOCD approval.

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.

<b>Signature:</b> 	<b>OIL CONSERVATION DIVISION</b>	
<b>Printed Name:</b> Stephen Gwin	<b>Approved by District Supervisor:</b>	
<b>Title:</b> HE Specialist	<b>Approval Date:</b>	<b>Expiration Date:</b>
<b>E-mail Address:</b> <a href="mailto:stephen.gwin@chevron.com">stephen.gwin@chevron.com</a>	<b>Conditions of Approval:</b>	<b>Attached</b> <input type="checkbox"/>
<b>Date:</b>	<b>Phone:</b> (575) 263-0427	

\* Attach Additional Sheets If Necessary