

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

Form C-141  
Revised August 8, 2011

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

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

**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company <b>ConocoPhillips Company</b>	Contact <b>Lisa Hunter</b>
Address <b>3401 East 30<sup>th</sup> St, Farmington, NM</b>	Telephone No. <b>(505) 326-9786</b>
Facility Name: <b>San Juan 29-6 Unit 65B</b>	Facility Type: <b>Gas Well</b>

Surface Owner <b>Public</b>	Mineral Owner <b>Fee</b>	API No. <b>3003930447</b>
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**LOCATION OF RELEASE**

Unit Letter <b>I</b>	Section <b>19</b>	Township <b>29N</b>	Range <b>06W</b>	Feet from the <b>1390</b>	North/South Line <b>South</b>	Feet from the <b>1300</b>	East/West Line <b>East</b>	County <b>Rio Arriba</b>
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Latitude 36.707773 Longitude -107.499215

**NATURE OF RELEASE**

Type of Release <b>Produced Water (Coal Bed)</b>	Volume of Release <b>5.57 BBLs</b>	Volume Recovered <b>0 BBLs</b>
Source of Release <b>Water Dump Line</b>	Date and Hour of Occurrence <b>Unknown</b>	Date and Hour of Discovery <b>01/21/14 @ 3:00 PM</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? <b>N/A</b>	
By Whom? <b>N/A</b>	Date and Hour <b>N/A</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>N/A</b>	

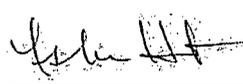
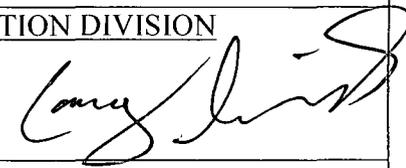
If a Watercourse was Impacted, Describe Fully.\*  
**N/A**

Describe Cause of Problem and Remedial Action Taken.\*  
**A hammer union on water dump line was found to be loose and leaking. Well shut in. Repairs made.**

RCUD MAR 27 '14  
OIL CONS. DIV.  
DIST. 3

Describe Area Affected and Cleanup Action Taken.\*  
**ConocoPhillips will assess the soil to determine a path forward for clean-up if necessary. Release assessment was completed by third-party environmental and Analytical results were below the NMOCD regulatory standards – no further action required at this time. The soil sampling report is attached for review. No further remediation required.**

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: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Lisa Hunter</b>	Approved by Environmental Specialist: 	
Title: <b>Field Environmental Specialist</b>	Approval Date: <b>5/9/14</b>	Expiration Date:
E-mail Address: <b>Lisa.Hunter@cop.com</b>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <b>March 25, 2014</b>	Phone: <b>(505) 326-9786</b>	

\* Attach Additional Sheets If Necessary

#NCS 141295 1744

H



Animas Environmental Services, LLC

[www.animasenvironmental.com](http://www.animasenvironmental.com)

624 E. Comanche  
Farmington, NM 87401  
505-564-2281

Durango, Colorado  
970-403-3084

March 19, 2014

Lisa Hunter  
ConocoPhillips  
San Juan Business Unit  
Office 214-04  
5525 Hwy 64  
Farmington, New Mexico 87401

*Via electronic mail to:*  
[SJBUE-Team@ConocoPhillips.com](mailto:SJBUE-Team@ConocoPhillips.com)

**RE: Release Assessment Report  
San Juan 29-6 #65B  
Rio Arriba County, New Mexico**

Dear Ms. Hunter:

On January 27, 2014, Animas Environmental Services, LLC (AES) completed a release assessment at the ConocoPhillips (CoP) San Juan 29-6 #65B, located in Rio Arriba County, New Mexico. The release consisted of approximately 5.6 barrels (bbls) of produced water and was the result of a leaking hammer union located along the water discharge line at the location.

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## 1.0 Site Information

### 1.1 Location

Location – NE¼ SE¼, Section 19, T29N, R6W, Rio Arriba County, New Mexico  
Well Head Latitude/Longitude – N36.70777 and W107.49981, respectively  
Release Location Latitude/Longitude – N36.70817 and W107.50045, respectively  
Land Jurisdiction – Private

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, January 2014

### 1.2 NMOCD Ranking

In accordance with New Mexico Oil Conservation Division (NMOCD) release protocols, action levels were established per NMOCD *Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993) prior to site work. The release was given a ranking score of 20 based on the following factors:

- **Depth to Groundwater:** A cathodic protection report form dated February 2006 for the San Juan 29-6 #241A, located approximately 190 feet from the release location and at a similar elevation, reported the depth to groundwater at 100 feet below ground surface (bgs). (0 points)
- **Wellhead Protection Area:** The release location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** The wash in Gobernador Canyon is located approximately 150 feet east of the location. (20 points)

### 1.3 Assessment

AES was initially contacted by Lisa Hunter of CoP on January 22, 2014, and on January 27, 2014, Deborah Watson, Emilee Skyles, and Jesse Sprague of AES completed the release assessment field work. The assessment included collection and field screening of five soil samples from five borings from within the release area. One sample, SC-1, was composited from surface samples collected from SB-1 through SB-5. Soil borings were terminated between 1 and 4 inches on frozen soil. Sample locations are presented on Figure 3.

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## 2.0 Soil Sampling

A total of five soil samples from five borings (SB-1 through SB-5) and one composite sample (SC-1) were collected during the assessment. All soil samples were field screened for volatile organic compounds (VOCs), and selected samples were also analyzed for total petroleum hydrocarbons (TPH).

### 2.1 Field Screening

#### 2.1.1 Volatile Organic Compounds

Field screening for VOC vapors was conducted with a photo-ionization detector (PID) organic vapor meter (OVM). Before beginning field screening, the PID-OVM was first calibrated with 100 parts per million (ppm) isobutylene gas.

#### 2.1.2 Total Petroleum Hydrocarbons

Field TPH samples were analyzed TPH per U.S. Environmental Protection Agency (USEPA) Method 418.1 using a Buck Scientific Model HC-404 Total Hydrocarbon Analyzer Infrared Spectrometer (Buck). A 3-point calibration was completed prior to conducting soil analyses. Field analytical protocol followed AES's *Standard Operating Procedure: Field Analysis Total Petroleum Hydrocarbons per EPA Method 418.1*.

## 2.2 Field Screening Results

On January 27, 2014, release assessment field screening results for VOCs via OVM showed concentrations ranging from 0.9 ppm in SB-2 and SB-4 up to 1.8 ppm in SB-5. Field TPH concentrations ranged from less than 20.0 mg/kg in SB-1 and SC-1 up to 21.5 mg/kg in SB-3. Results are included below in Table 1 and on Figure 3. The AES Field Screening Report is attached.

Table 1. Field Screening VOCs and TPH Results  
 San Juan 29-6 #65B Release Assessment, January 2014

<b>Sample ID</b>	<b>Date Sampled</b>	<b>Sample Depth (ft bgs)</b>	<b>VOCs via OVM (ppm)</b>	<b>Field TPH (mg/kg)</b>
<i>NMOCD Action Level*</i>			100	100
SB-1	1/27/14	Surface	1.4	<20.0
SB-2	1/27/14	Surface	0.9	NA
SB-3	1/27/14	Surface	1.7	21.5
SB-4	1/27/14	Surface	0.9	NA
SB-5	1/27/14	Surface	1.8	NA
SC-1	1/27/14	Surface	1.6	<20.0

NA – not analyzed

\*Action level determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993)

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### 3.0 Conclusions and Recommendations

On January 27, 2014, AES conducted a release assessment of produced water impacted soils associated with a release along the water discharge line at the San Juan 29-6 #65B. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), and the site was assigned a rank of 20.

Release assessment field screening results were below the NMOCD action level of 100 ppm VOC and 100 mg/kg TPH in all samples. The highest VOC concentration was reported in SB-5 with 1.8 ppm, and the highest TPH concentration was reported in SB-3 with 21.5 mg/kg.

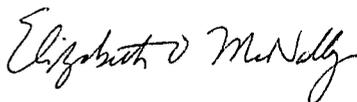
Based on field screening results of the release assessment at the San Juan 29-6 #65B, VOC and TPH concentrations were below applicable NMOCD action levels. No further work is recommended.

If you have any questions about this report or site conditions, please do not hesitate to contact Deborah Watson at (505) 564-2281.

Sincerely,



David J. Reese  
Environmental Scientist



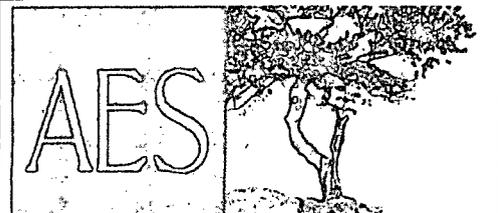
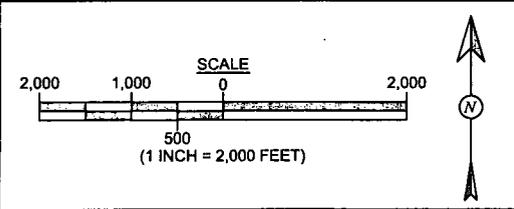
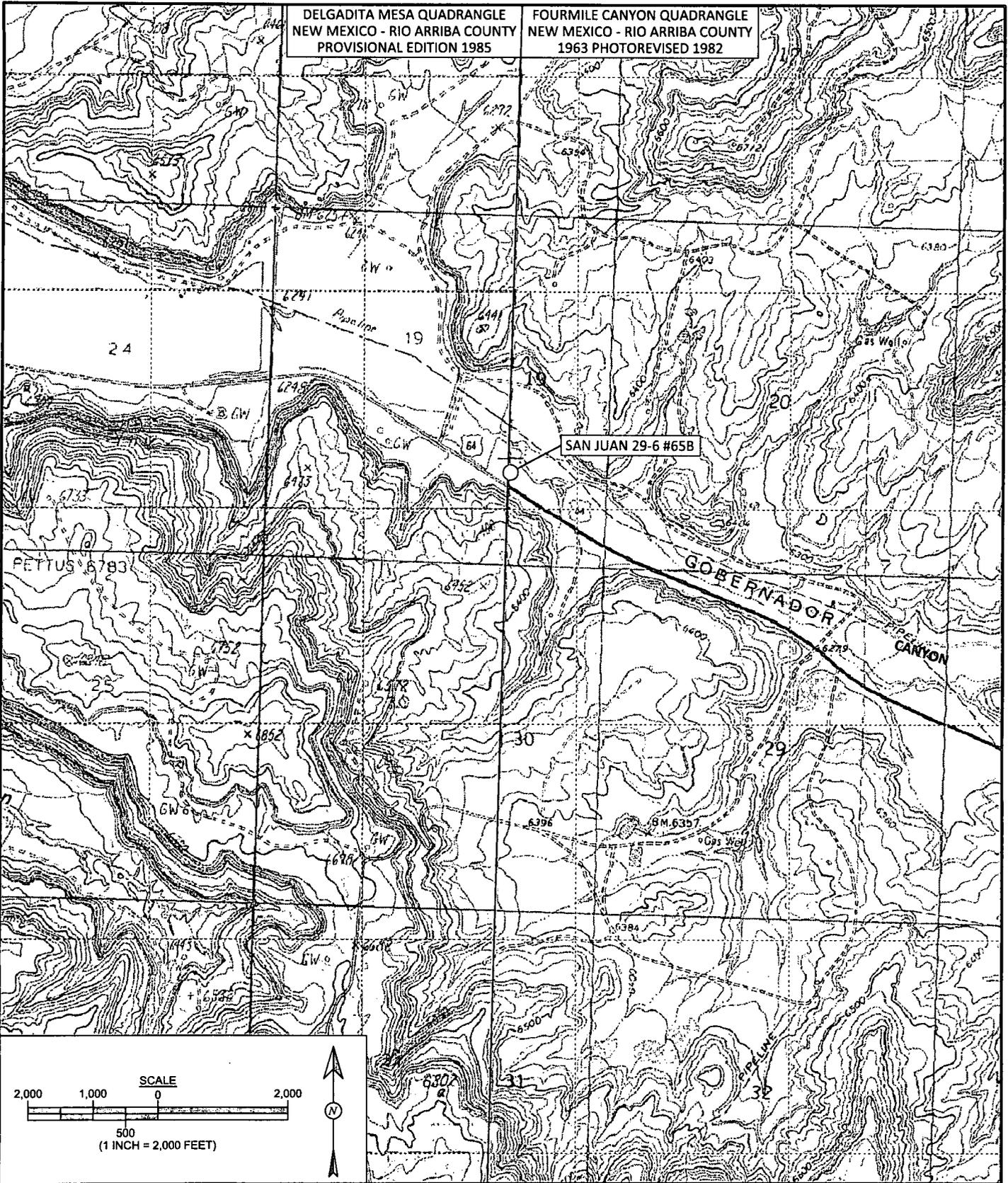
Elizabeth McNally, PE

#### Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, January 2014
- Figure 3. Release Assessment Sample Locations and Results, January 2014
- AES Field Screening Report 012714

DELGADITA MESA QUADRANGLE  
 NEW MEXICO - RIO ARriba COUNTY  
 PROVISIONAL EDITION 1985

FOURMILE CANYON QUADRANGLE  
 NEW MEXICO - RIO ARriba COUNTY  
 1963 PHOTOREVISED 1982



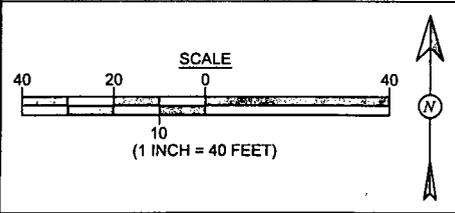
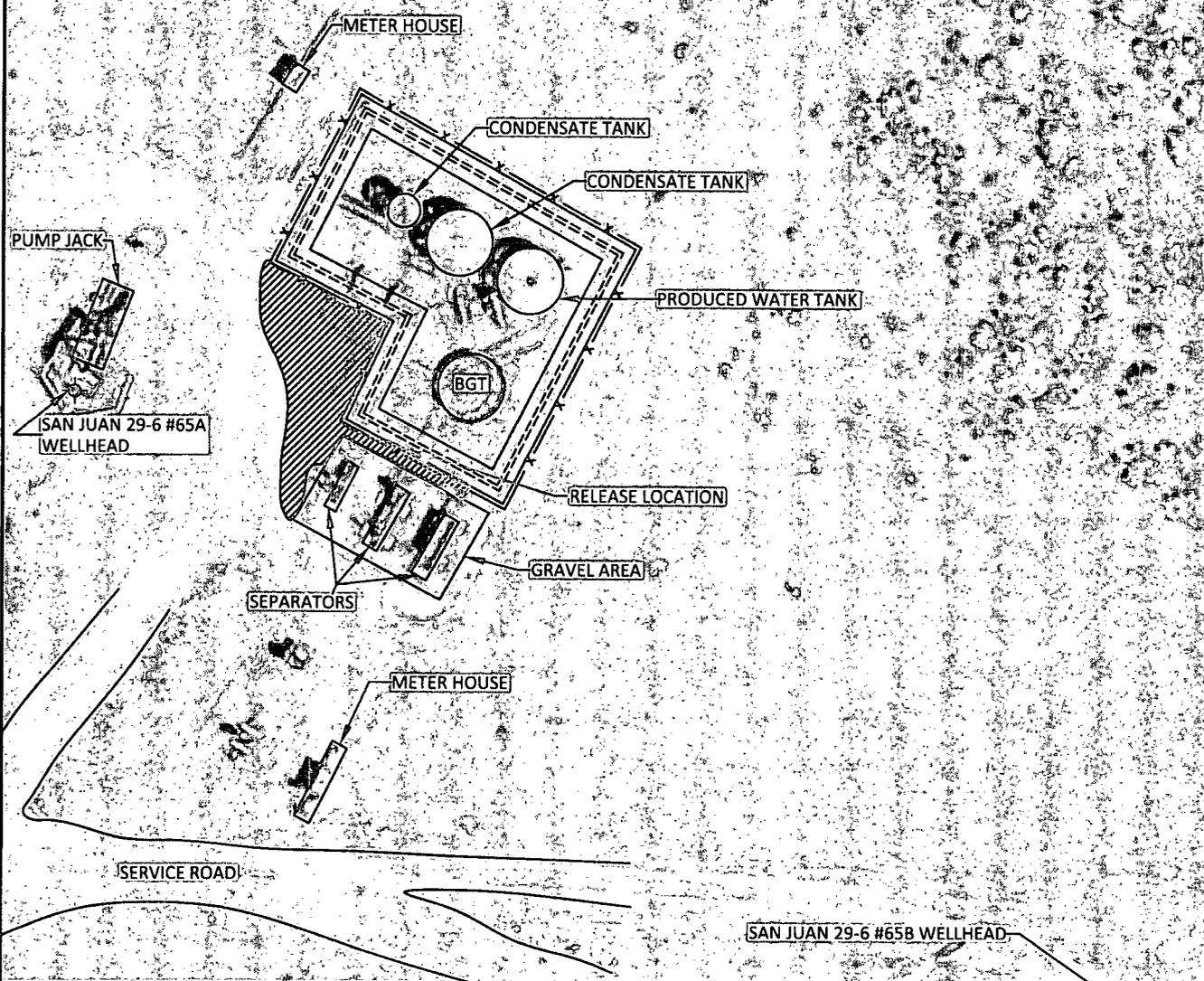
Animas Environmental Services, LLC

<b>DRAWN BY:</b> S. Glasses	<b>DATE DRAWN:</b> January 28, 2014
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> January 28, 2014
<b>CHECKED BY:</b> D. Watson	<b>DATE CHECKED:</b> January 28, 2014
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> January 28, 2014

**FIGURE 1**

**TOPOGRAPHIC SITE LOCATION MAP**  
 ConocoPhillips  
 SAN JUAN 29-6 #65B  
 NE¼ SE¼, SECTION 19, T29N, R6W  
 RIO ARriba COUNTY, NEW MEXICO  
 N36.70777, W107.49981

LEGEND	
	SECONDARY CONTAINMENT BERM
	FENCE



AERIAL SOURCE: © 2013 GOOGLE EARTH, AERIAL DATE: MAY 2, 2013



<b>DRAWN BY:</b> S. Glasses	<b>DATE DRAWN:</b> January 28, 2014
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> January 28, 2014
<b>CHECKED BY:</b> D. Watson	<b>DATE CHECKED:</b> January 28, 2014
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> January 28, 2014

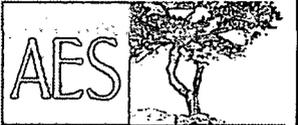
**FIGURE 2**

**AERIAL SITE MAP  
JANUARY 2014**

ConocoPhillips  
SAN JUAN 29-6 #65B  
NE¼, SE¼, SECTION 19, T29N, R6W  
RIO ARRIBA COUNTY, NEW MEXICO  
N36.70777, W107.49981

**FIGURE 3**

**RELEASE ASSESSMENT SAMPLE LOCATIONS AND RESULTS JANUARY 2014**  
 ConocoPhillips  
 SAN JUAN 29-6 #65B  
 NE¼, SE¼, SECTION 19, T29N, R6W  
 RIO ARRIBA COUNTY, NEW MEXICO  
 N36.70777, W107.49981

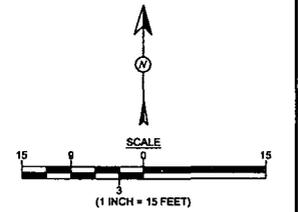


Animas Environmental Services, LLC

<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> January 28, 2014
<b>REVISIONS BY:</b> S. Glasses	<b>DATE REVISED:</b> February 3, 2014
<b>CHECKED BY:</b> D. Watson	<b>DATE CHECKED:</b> February 3, 2014
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> February 3, 2014

**LEGEND**

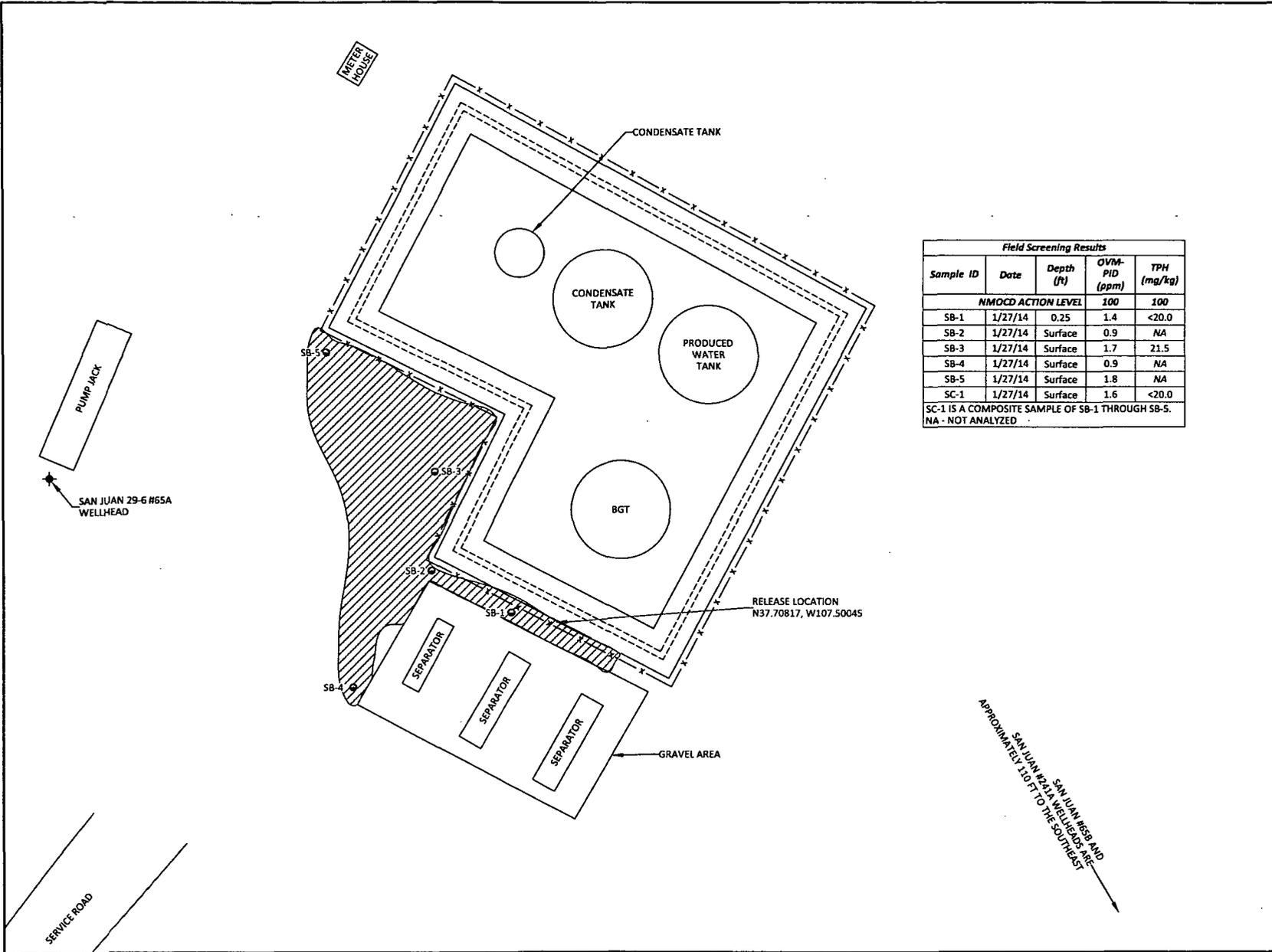
- SAMPLE LOCATIONS
- ▤ SECONDARY CONTAINMENT BERM
- x - FENCE



*Field Screening Results*

Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)	
<b>NMOC ACTION LEVEL</b>				<b>100</b>	<b>100</b>
SB-1	1/27/14	0.25	1.4	<20.0	
SB-2	1/27/14	Surface	0.9	NA	
SB-3	1/27/14	Surface	1.7	21.5	
SB-4	1/27/14	Surface	0.9	NA	
SB-5	1/27/14	Surface	1.8	NA	
SC-1	1/27/14	Surface	1.6	<20.0	

SC-1 IS A COMPOSITE SAMPLE OF SB-1 THROUGH SB-5.  
 NA - NOT ANALYZED



# AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

624 E. Comanche  
Farmington, NM 87401  
505-564-2281

Durango, Colorado  
970-403-3084

Client: ConocoPhillips

Project Location: San Juan 29-6 #65B

Date: 1/27/2014

Matrix: Soil

Sample ID	Collection Date	Collection Time	OMV (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ surface	1/27/2014	12:20	1.4	11.7	12:39	20	1	DAW
SB-2 @ surface	1/27/2014	12:27	0.9	Not Analyzed for TPH				
SB-3 @ surface	1/27/2014	12:32	1.7	21.5	13:11	20	1	DAW
SB-4 @ surface	1/27/2014	12:36	0.9	Not Analyzed for TPH				
SB-5 @ surface	1/27/2014	12:38	1.8	Not Analyzed for TPH				
SC-1	1/27/2014	12:55	1.6	17.3	13:15	20	1	DAW

DF Dilution Factor  
 NA Not Analyzed  
 ND Not Detected at the Reporting Limit  
 PQL Practical Quantitation Limit

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: *Debrah Water*

\*Field TPH concentrations recorded may be below PQL.



75 Suttle Street  
Durango, CO 81303  
970.247.4220 Phone  
970.247.4227 Fax  
[www.greenanalytical.com](http://www.greenanalytical.com)

29 April 2014

Kevin Fredrickson  
Conoco Phillips-Farmington  
3401 30th Street  
Farmington, NM 87401  
RE: Chloride

Enclosed are the results of analyses for samples received by the laboratory on 04/23/14 16:36.  
If you need any further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads 'Debbie Zufelt'.

Debbie Zufelt  
Reports Manager

All accredited analytes contained in this report are denoted by an asterisk (\*). For a complete list of accredited analytes please do not hesitate to contact us via any of the contact information contained in this report. All of our certifications can be viewed at <http://greenanalytical.com/certifications/>

Green Analytical Laboratories is NELAP accredited through the Texas Commission on Environmental Quality. Accreditation applies to drinking water and non-potable water matrices for trace metals and a variety of inorganic parameters. Green Analytical Laboratories is also accredited through the Colorado Department of Public Health and Environment and EPA region 8 for trace metals, Cyanide, Fluoride, Nitrate, and Nitrite in drinking water.

Our affiliate laboratory, Cardinal Laboratories, is also NELAP accredited through the Texas Commission on Environmental Quality for a variety of organic constituents in drinking water, non-potable water and solid matrices. Cardinal is also accredited for regulated VOCs, TTHM, and HAA-5 in drinking water



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Conoco Phillips-Farmington 3401 30th Street Farmington NM, 87401	Project: Chloride Project Name / Number: [none] Project Manager: Kevin Fredrickson	Reported: 04/29/14 11:22
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**ANALYTICAL REPORT FOR SAMPLES**

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
San Juan 29-6 Unit 65B	1404203-01	Water	04/23/14 12:00	04/23/14 16:36

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, 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 within thirty days after completion of the applicable service.



dzufelt@greenanalytical.com p: 970.247.4220 f: 970.247.4227 75 Suttle Street Durango, CO 81303

www.GreenAnalytical.com

Conoco Phillips-Farmington 3401 30th Street Farmington NM, 87401	Project: Chloride Project Name / Number: [none] Project Manager: Kevin Fredrickson	Reported: 04/29/14 11:22
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**San Juan 29-6 Unit 65B**

**1404203-01 (Water)**

Analyte	Result	RL	MDL	Units	Dilution	Analyzed	Method	Notes	Analyst
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**General Chemistry**

Chloride*	109	10.0	5.00	mg/L	1	04/25/14	4500-Cl- C		ABP
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Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Conoco Phillips-Farmington 3401 30th Street Farmington NM, 87401	Project: Chloride Project Name / Number: [none] Project Manager: Kevin Fredrickson	Reported: 04/29/14 11:22
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**Notes and Definitions**

- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis  
\*Results reported on as received basis unless designated as dry.
- RPD Relative Percent Difference
- LCS Laboratory Control Sample (Blank Spike)
- RL Report Limit
- MDL Method Detection Limit

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety. In no event shall Green Analytical Laboratories be liable for incidental or consequential damages. GALs liability, and clients exclusive remedy for any claim arising, 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 within thirty days after completion of the applicable service.

Client: COP Phone# (505) 215-3134 Contact: Kevin Fredrickson  
 Address: 5525 Hwy 64 500 bldg. 2060 E-Mail Address: Kevin.g.fredrickson@coroco.phillips.com  
 Farmington, NM 87401



**CHAIN OF CUSTODY RECORD**  
 GAL Work Order # 1404-203  
 PO#  
 Project Name:

Sample Location: (1) Bumper Spring, (2) Compressor Discharge, (3) Flowline, (4) Meter, (5) Oil Tank, (6) Pig Launcher, (7) Pig Receiver, (8) Pipeline, (9) Pit Tank, (10) Post Filter, (11) Pre Filter, (12) Separator Inlet, (13) Separator Outlet, (14) Separator Dump, (15) SWD Inlet, (16) SWD Outlet, (17) Transfer Pump, (18) Valve Can, (19) Water Tank, (20) Wellhead, (21) Other

Sample Type: (1) Casing, (2) CO2 Gas Tube, (3) Coupon, (4) Water, (5) H2S Gas Tube, (6) Metals, (7) O2 Gas Tube, (8) Pipe Section, (9) Residual, (10) Sludge, (11) Solid, (12) Tubing, (13) Other

Well Name (Sample Name)	Collection				Preservative				Analyses Required					
	Date	Time	Collected By: (Init.)	Sample Location	Sample Type	No. of Containers	Filtered: Y/N	Unpreserved	H2SO4	Other:	Iron and Manganese	Phosphate	Full Water API	Chlorides
1. San Juan 29-6 Unit 65B	4-23-14	12:00	JG	20	4	1	N	X						X
2.														
3.														
4.														
5.														
6.														
7.														
8.														
9.														
10.														
11.														
12.														
13.														
14.														
15.														
16.														
17.														
18.														
19.														
20.														

Relinquished by: *[Signature]* Date: 4-23-14 Time: 4:36pm Received By: *[Signature]* Date: 4/23/14 Time: 11:36  
 JOSEPH GOMEZ

Christi Clark 4/23/14 1655 Kangaroo Express 4/23/14 1655 Kangaroo → Michael Valentine 4-24-14