

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 August 8, 2011

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.\*

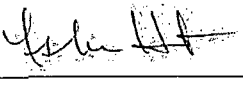
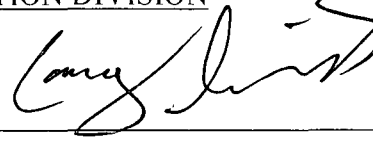
**A hammer union on water dump line was found to be loose and leaking. Well shut in. Repairs made.**

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



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

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>	<i>Field TPH (mg/kg)</i>
NMOCD Action Level*			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.

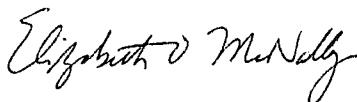
Based on field screening results of the release assessment at the San Juan 29-6 #65B, VOC and TPH concentrations were below applicable NMOCD action levels. No further work is recommended.

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

Sincerely,



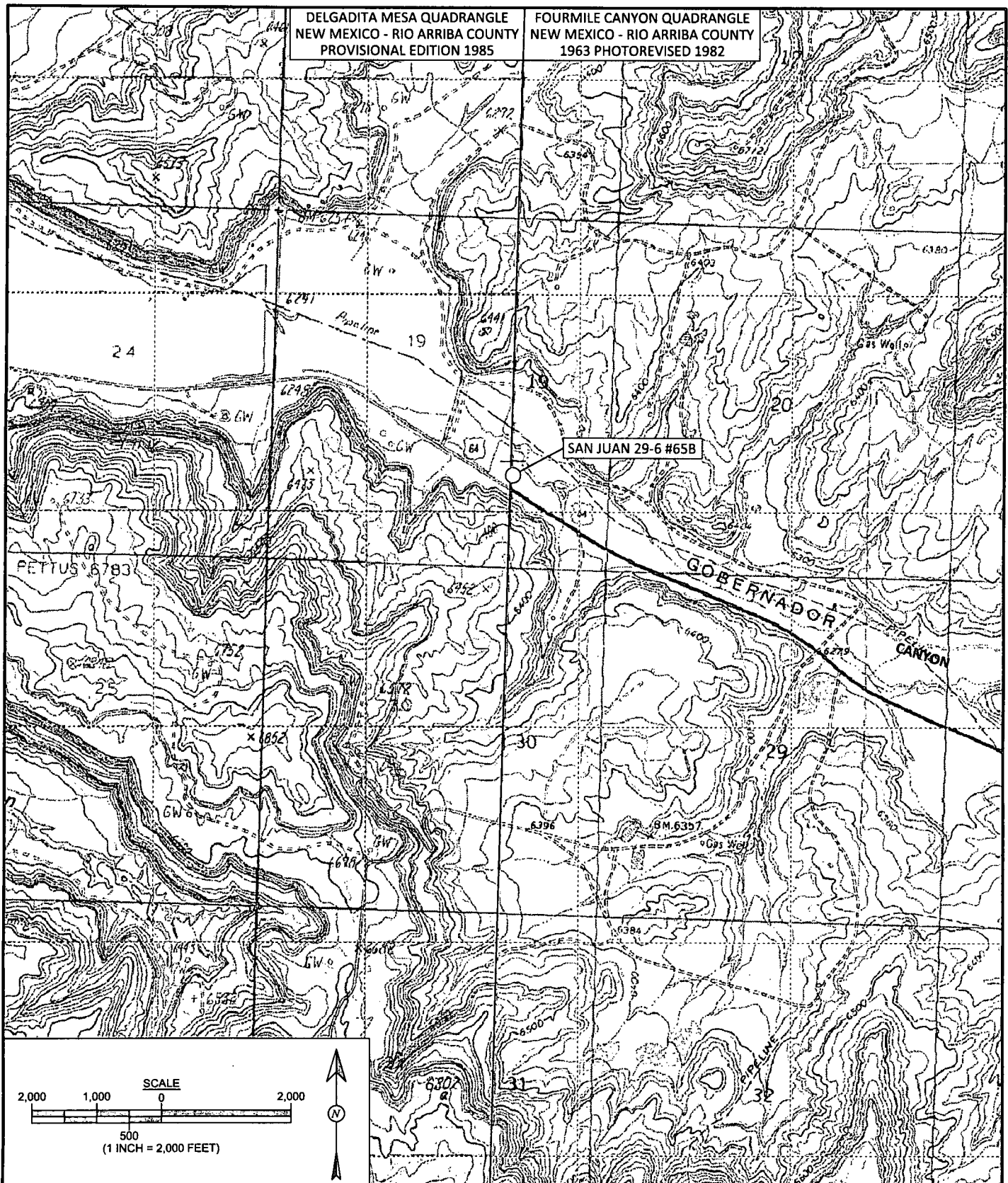
David J. Reese  
Environmental Scientist



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



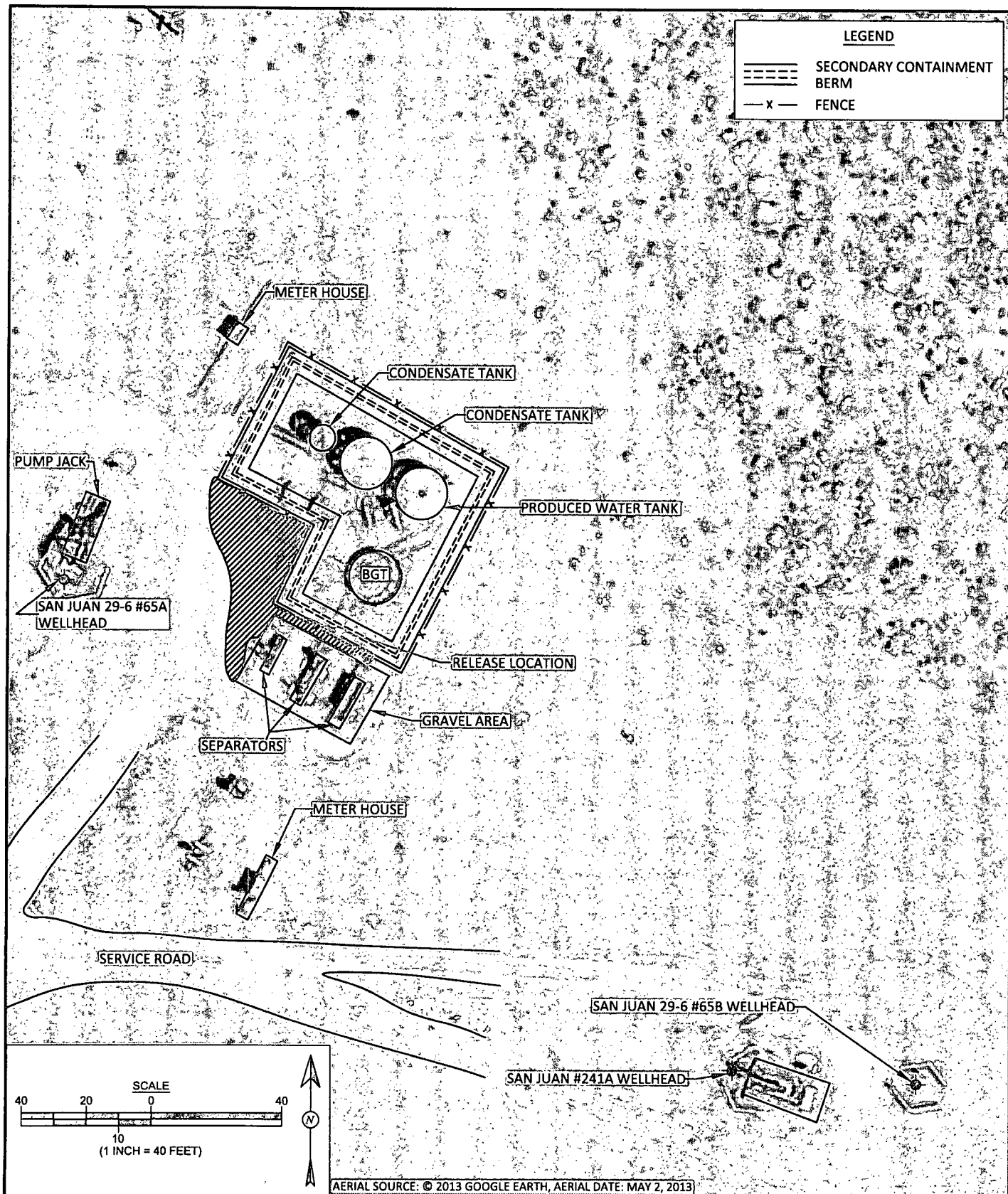
Animas Environmental Services, LLC

<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



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



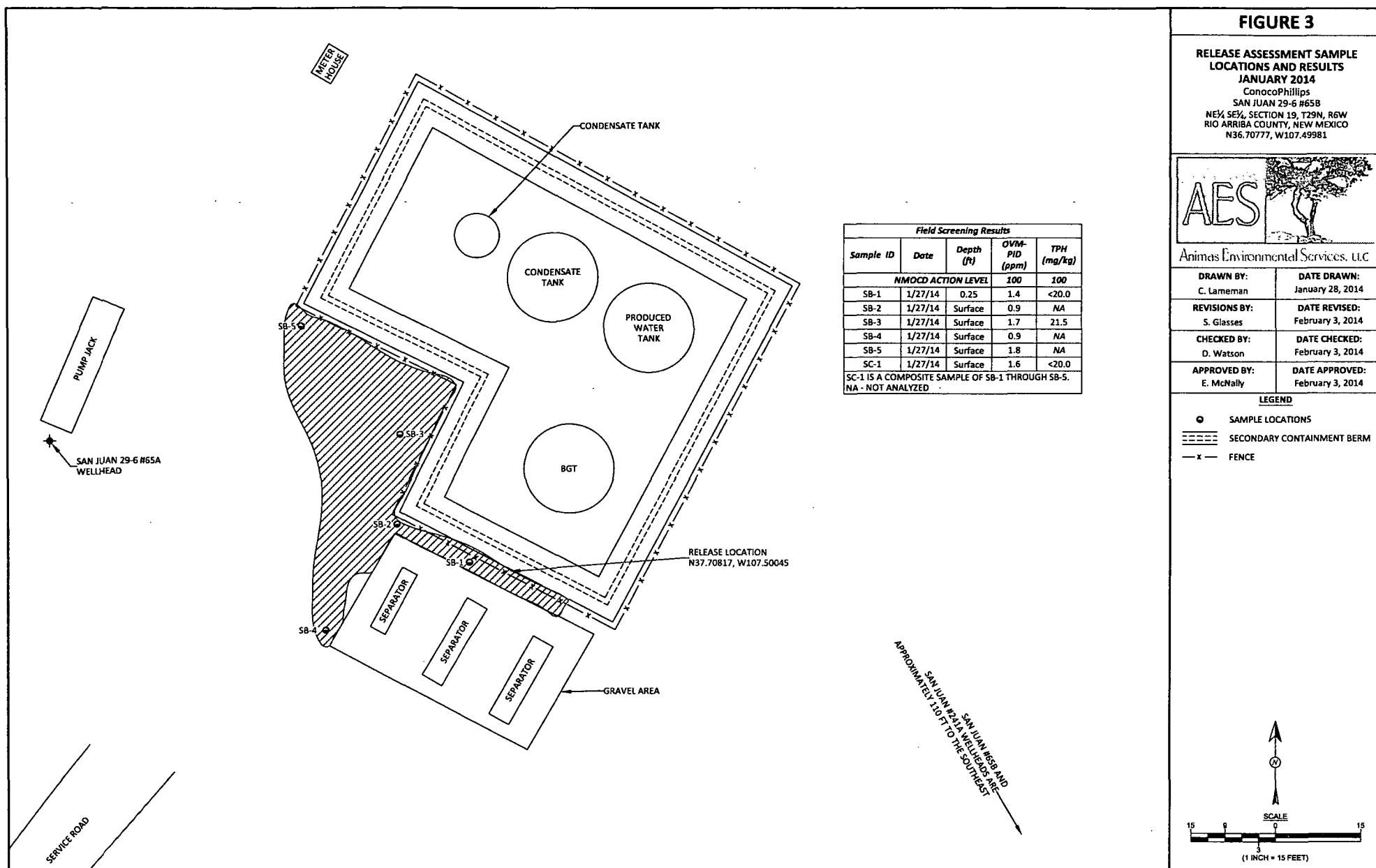
Animas Environmental Services, LLC

<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 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





# 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	OVM (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

\*Field TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

*Debrah Water*



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 cursive script 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

#### 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	Project: Chloride	
3401 30th Street	Project Name / Number: [none]	Reported:
Farmington NM, 87401	Project Manager: Kevin Fredrickson	04/29/14 11:22

**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*

Debbie Zufelt, Reports Manager

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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

### Notes and Definitions

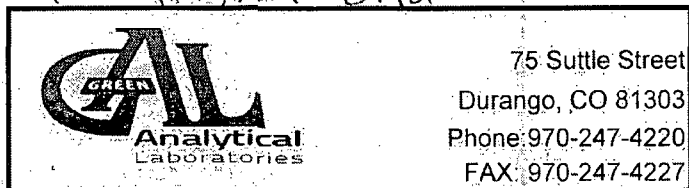
DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
\*Results reported on as received basis unless designated as dry.  
RPD Relative Percent Difference  
LCS Laboratory Control Sample (Blank Spike)  
RL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

Green Analytical Laboratories

Debbie Zufelt, Reports Manager

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Client: COP	Phone# (505) 215-3134	Contact: Kevin Fredrickson
Address: 5525 Hwy 64 500 bldg. 206 Farmington, NM 87401	E-Mail Address: Kevin.g.fredrickson@coroco-phillips.com	



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

Sample Location: (1)BumperSpring, (2)CompressorDischarge, (3)Flowline, (4)Meter, (5)Oil Tank, (6)PigLauncher, (7)PigReceiver, (8)Pipeline, (9)Pit Tank, (10)PostFilter, (11)PreFilter, (12)SeparatorInlet, (13)SeparatorOutlet, (14)SeparatorDump, (15)SWDInlet, (16)SWDOutlet, (17)TransferPump, (18)ValveCan, (19)WaterTank, (20)Wellhead, (21)Other

Sample Type: (1)Casing, (2)CO2GasTube, (3)Coupon, (4)Water, (5)H2SGasTube, (6)Metals, (7)O2GasTube, (8)PipeSection, (9)Residual, (10)Sludge, (11)Solid, (12)Tubing, (13)Other

Collection							Preservative				Analyses Required			
Well Name (Sample Name)	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	JB	20	4	1	N	X						X
2.														
3.														
4.														
5.														
6.														
7.														
8.														
9.														
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11.														
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14.														
15.														
16.														
17.														
18.														
19.														
20.														

Relinquished by:	Date: 4-23-14	Time: 4:36pm	Received By:	Date: 4/23/14	Time: 11:36
------------------	---------------	--------------	--------------	---------------	-------------

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