

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>Burlington Resources</b>	Contact <b>Lindsay Dumas</b>	
Address <b>3401 East 30<sup>th</sup> St, Farmington, NM</b>	Telephone No. <b>(505) 599-4089</b>	
Facility Name: <b>Canyon Largo 240</b>	Facility Type: <b>Gas</b>	
Surface Owner <b>BLM</b>	Mineral Owner <b>BLM (SF-07884)</b>	API No. <b>30-039-20640</b>

#### LOCATION OF RELEASE

Unit Letter <b>L</b>	Section <b>12</b>	Township <b>25N</b>	Range <b>06W</b>	Feet from the <b>1800</b>	North/South Line <b>FSL</b>	Feet from the <b>800</b>	East/West Line <b>FWL</b>	County <b>Rio Arriba</b>
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Latitude **36.41176** Longitude **-107.48468**

#### NATURE OF RELEASE

Type of Release <b>Hydrocarbon/Produced Water</b>	Volume of Release <b>86/10 bbls</b>	Volume Recovered <b>20/0</b>
Source of Release <b>Production Tank</b>	Date and Hour of Occurrence <b>Unknown</b>	Date and Hour of Discovery <b>2/21/14 9:15 AM</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
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.\*

Describe Cause of Problem and Remedial Action Taken.\*

**MSO pulled up to location and noticed oil around tank inside berm. Well was shut in and remaining tank was hydrocycled. The tank will be removed and inspected.**

OIL CONS. DIV DIST. 3

MAY 20 2014

Describe Area Affected and Cleanup Action Taken.\*

**Excavation was 40' x 80' x 6' Deep. 724 c/yds of soil was transported to TNT Land Farm and 724 c/yds of clean soil was transported from Aztec Machine & TNT and placed in the excavation site. Analytical results were below the regulatory standards – no further action required. The soil sampling report is attached for review.**

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: <i>Lindsay Dumas</i>	OIL CONSERVATION DIVISION	
Printed Name: <b>Lindsay Dumas</b>	Approved by Environmental Specialist: <i>[Signature]</i>	
Title: <b>Field Environmental Specialist</b>	Approval Date: <b>5/27/14</b>	Expiration Date:
E-mail Address: <b>Lindsay.Dumas@conocophillips.com</b>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <b>5/16/14</b> Phone: <b>(505) 599-4089</b>		

\* Attach Additional Sheets If Necessary

#NCS 1423942377

14



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado  
970-403-3084

May 2, 2014

Lindsay Dumas  
ConocoPhillips  
San Juan Business Unit  
Office 214-07  
5525 Hwy 64  
Farmington, New Mexico 87401

OIL CONS. DIV DIST. 3

MAY 20 2014

Via electronic mail to:

[SJBUE-Team@ConocoPhillips.com](mailto:SJBUE-Team@ConocoPhillips.com)

**RE: Initial Release Assessment and Final Excavation Report  
Canyon Largo #240  
Rio Arriba County, New Mexico**

Dear Ms. Dumas:

On February 26 and April 1, 2014, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) Canyon Largo #240, located in Rio Arriba County, New Mexico. The release consisted of approximately 10 barrels (bbls) of produced water and 86 bbls of condensate from the onsite production tank. The initial release assessment was completed by AES on February 26, 2014, and the final excavation was completed by CoP contractors while AES personnel were on the location on April 1, 2014.

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## 1.0 Site Information

### 1.1 Location

Location – NW¼ SW¼, Section 12, T25N, R6W, Rio Arriba County, New Mexico

Well Head Latitude/Longitude – N36.41203 and W107.42529, respectively

Release Location Latitude/Longitude – N36.41212 and W107.42500, respectively

Land Jurisdiction – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, February 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 0 based on the following factors:

- **Depth to Groundwater:** A cathodic protection report form dated January 1994 reported the depth to groundwater at 105 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:** Approximately 1,230 feet east and 1,500 feet southwest are unnamed washes which discharge to the wash in Gonzales Canyon. (0 points)

### *1.3 Assessment*

AES was initially contacted by Lindsay Dumas of CoP on February 24, 2014, and on February 26, 2014, Stephanie Lynn and Jesse Sprague of AES completed the release assessment field work. The assessment included collection and field sampling of 25 soil samples from 10 soil borings in and around the release area. Soil borings were terminated on sandstone between 3 and 5 feet. Based on the field sampling results, AES recommended further excavation of the release area. Sample locations are shown on Figure 3.

On April 1, 2014, AES returned to the location to collect confirmation soil samples of the excavation. The field sampling activities included collection of eight confirmation composite soil samples from the walls and base of the excavation. The area of the final excavation measured approximately 72 feet by 39 feet by 6.5 feet in depth. Sample locations and final excavation extents are presented on Figure 4.

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## **2.0 Soil Sampling**

A total of 26 soil samples from 10 borings (SB-1 through SB-10) and 8 composite samples (SC-1 through SC-8) were collected during the assessment and final clearance of the excavation. 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 Sampling

### 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 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 Sampling Results

On February 26, 2014, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 0.0 ppm in SB-8 and SB-9 up to 2,247 ppm in SB-1. Field TPH concentrations ranged from less than 20 mg/kg in SB-8 up to 11,400 mg/kg in SB-5.

On April 1, 2014, final excavation field screening results for VOCs via OVM ranged from 0.7 ppm in SC-8 up to 53.4 ppm in SC-3. Field TPH concentrations ranged from 34.3 mg/kg in SC-8 up to 110 mg/kg in SC-3. Field sampling results are included below in Table 1 and presented on Figures 3 and 4. The AES Field Sampling Reports are attached.

Table 1. Field Sampling VOCs and TPH Results  
Canyon Largo #240 Initial Release Assessment and Final Excavation  
February and April 2014

<i>Sample ID</i>	<i>Date Sampled</i>	<i>Sample Depth (ft bgs)</i>	<i>VOCs via OVM (ppm)</i>	<i>TPH (418.1) (mg/kg)</i>
<i>NMOCD Action Level*</i>			<b>100</b>	<b>5,000</b>
SB-1	2/26/14	1	0.3	NA
		4	<b>2,247</b>	NA
		5	<b>1,517</b>	NA
SB-2	2/26/14	1	<b>1,407</b>	NA
		4	<b>1,000</b>	NA
		5	<b>1,751</b>	<b>9,510</b>
SB-3	2/26/14	1	<b>1,700</b>	NA

<b>Sample ID</b>	<b>Date Sampled</b>	<b>Sample Depth (ft bgs)</b>	<b>VOCs via OVM (ppm)</b>	<b>TPH (418.1) (mg/kg)</b>
<b>NMOCD Action Level*</b>			<b>100</b>	<b>5,000</b>
SB-4	2/26/14	4.5	1,737	NA
		1	2,111	NA
		3	1,323	6,620
		5	961	NA
SB-5	2/26/14	1	941	NA
		3	1,427	11,400
SB-6	2/26/14	1	605	NA
		5	1,414	5,000
SB-7	2/26/14	1	4.5	26.1
		3	0.1	NA
		4	0.8	28.4
SB-8	2/26/14	1	0.0	NA
		3	0.0	NA
		5	0.0	<20.0
SB-9	2/26/14	1	0.0	NA
		3.5	0.0	NA
SB-10	2/26/14	Surface	2.8	NA
		5	5.3	NA
SC-1	4/1/14	1 to 6.5	27.7	44.7
SC-2	4/1/14	6.5	11.4	61.0
SC-3	4/1/14	6.5	53.4	110
SC-4	4/1/14	1 to 6.5	19.0	40.1
SC-5	4/1/14	1 to 6.5	5.6	42.4
SC-6	4/1/14	1 to 6.5	1.8	36.6
SC-7	4/1/14	1 to 6.5	37.0	41.3
SC-8	4/1/14	1 to 6.5	0.7	34.3

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 February 26, 2014, AES conducted an initial assessment of petroleum contaminated soils associated with a release of produced water and condensate at the Canyon Largo #240. 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 0.

Initial assessment field sampling results above the NMOCD action level of 100 ppm VOCs and 5,000 mg/kg TPH were reported in SB-1 through SB-6. The highest VOC concentration was reported in SB-1 with 2,247 ppm, and the highest TPH concentration was reported in SB-5 with 11,400 mg/kg.

On April 1, 2014, final clearance of the excavation area was completed. Field sampling results of the excavation extents showed that VOC and TPH concentrations were below applicable NMOCD action levels for the final walls and base of the excavation.

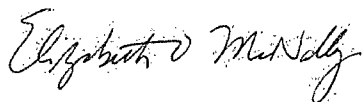
Based on final field sampling results of the excavation of petroleum contaminated soils at the Canyon Largo #240, VOC and TPH concentrations were below applicable NMOCD action levels for each of the sidewalls and base of the excavation. No further work is recommended.

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

Sincerely,



Emilee Skyles  
Staff Geologist

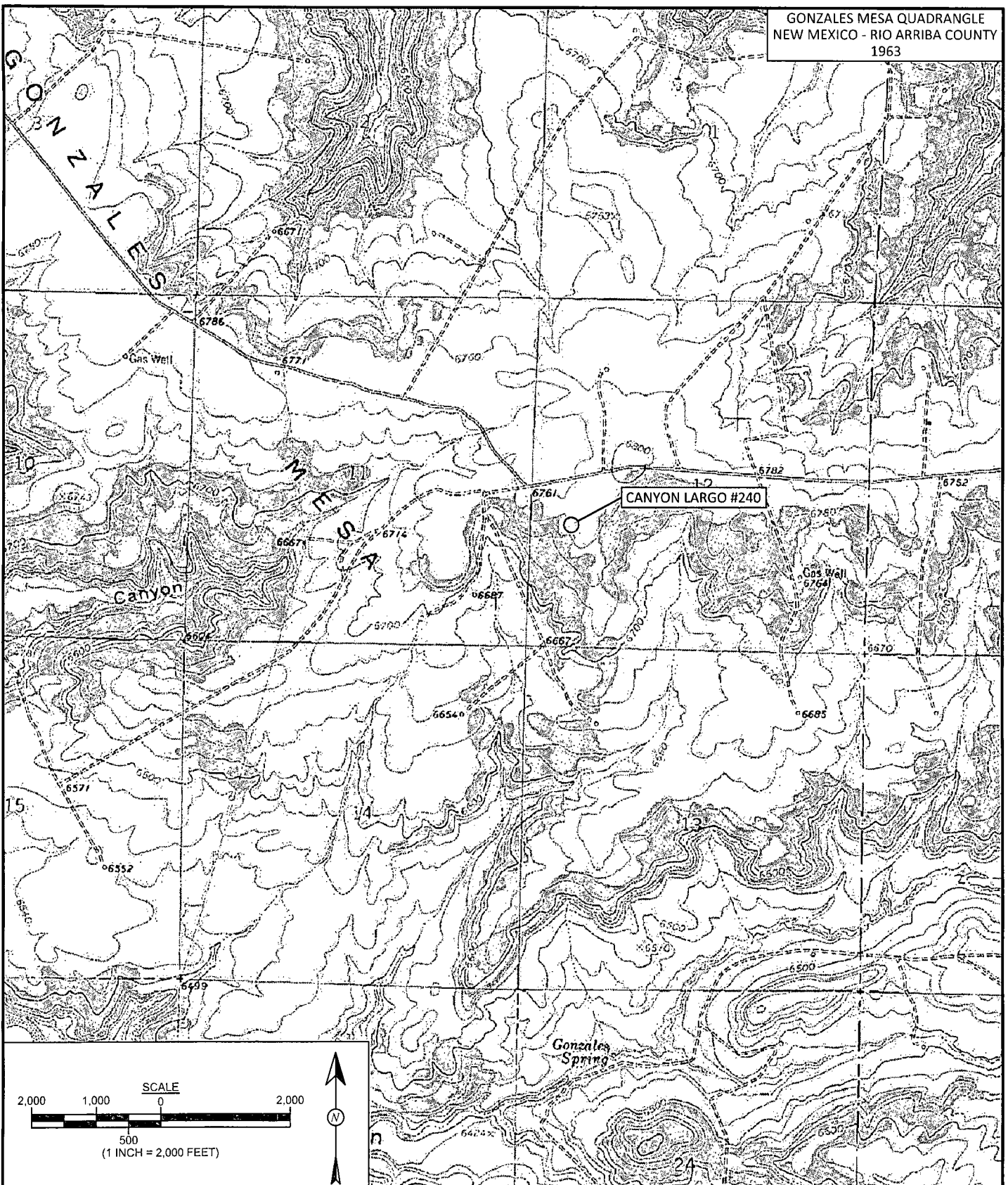


Elizabeth McNally, PE

Attachments:

- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, February 2014
- Figure 3. Release Assessment Sample Locations and Results, February 2014
- Figure 4. Final Excavation Sample Locations and Results, April 2014
- AES Field Sampling Report 022614
- AES Field Sampling Report 040114

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EM\2014 Projects\ConocoPhillips\Canyon Largo #240\Canyon Largo #240 Release and Final Excavation  
Report 050214.docx



Animas Environmental Services, LLC

**DRAWN BY:**

S. Glasses

**DATE DRAWN:**

February 27, 2014

**REVISIONS BY:**

C. Lameman

**DATE REVISED:**

April 24, 2014

**CHECKED BY:**

D. Watson

**DATE CHECKED:**

April 24, 2014

**APPROVED BY:**

E. McNally

**DATE APPROVED:**

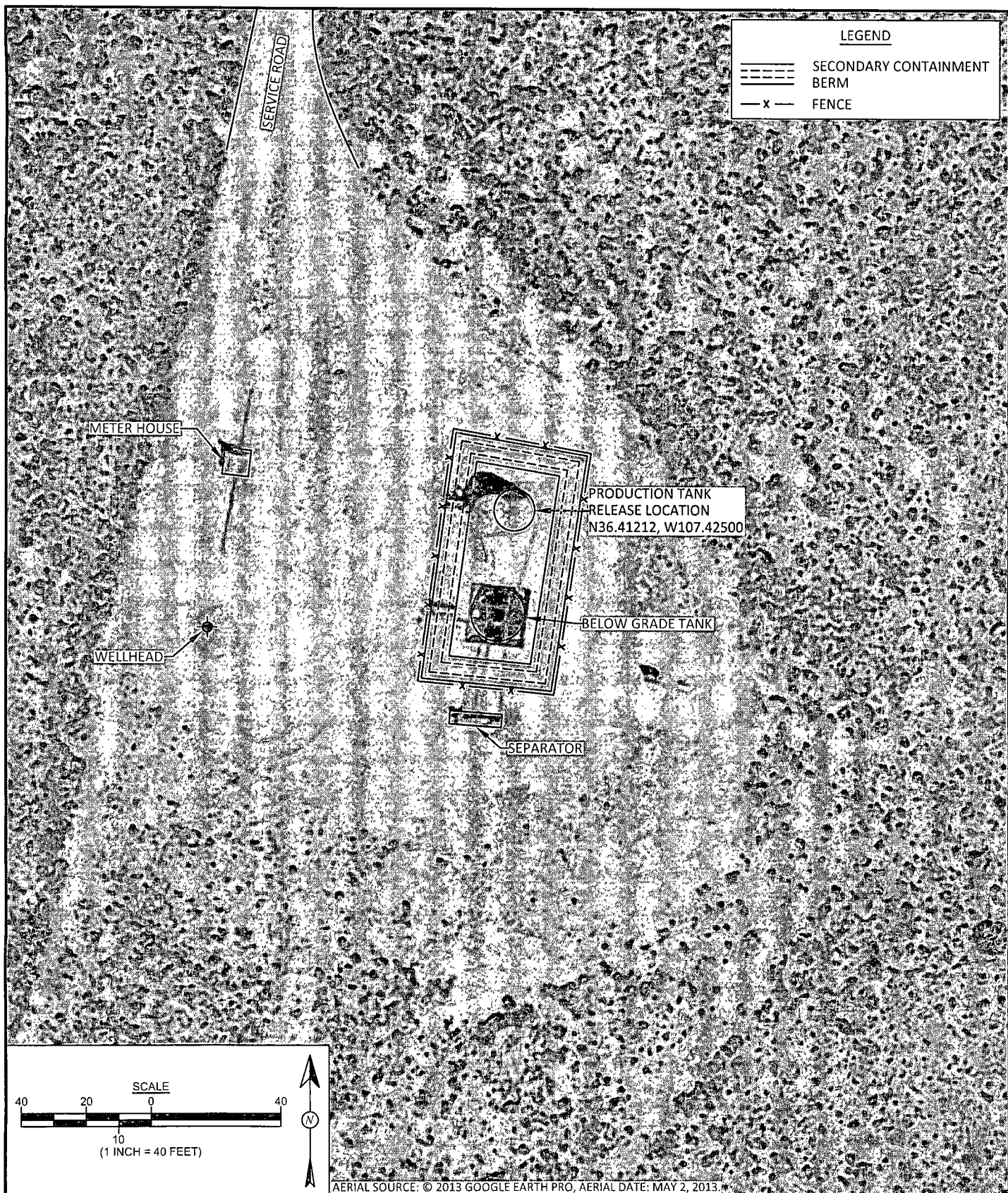
April 24, 2014

## FIGURE 1

### TOPOGRAPHIC SITE LOCATION MAP

ConocoPhillips  
CANYON LARGO #240  
NW¼ SW¼, SECTION 12, T25N, R6W  
RIO ARriba COUNTY, NEW MEXICO  
N36.41203, W107.42529





Animas Environmental Services, LLC

**DRAWN BY:**  
C. Lameman

**DATE DRAWN:**  
April 2, 2014

**REVISIONS BY:**  
C. Lameman

**DATE REVISED:**  
April 24, 2014

**CHECKED BY:**  
D. Watson

**DATE CHECKED:**  
April 24, 2014

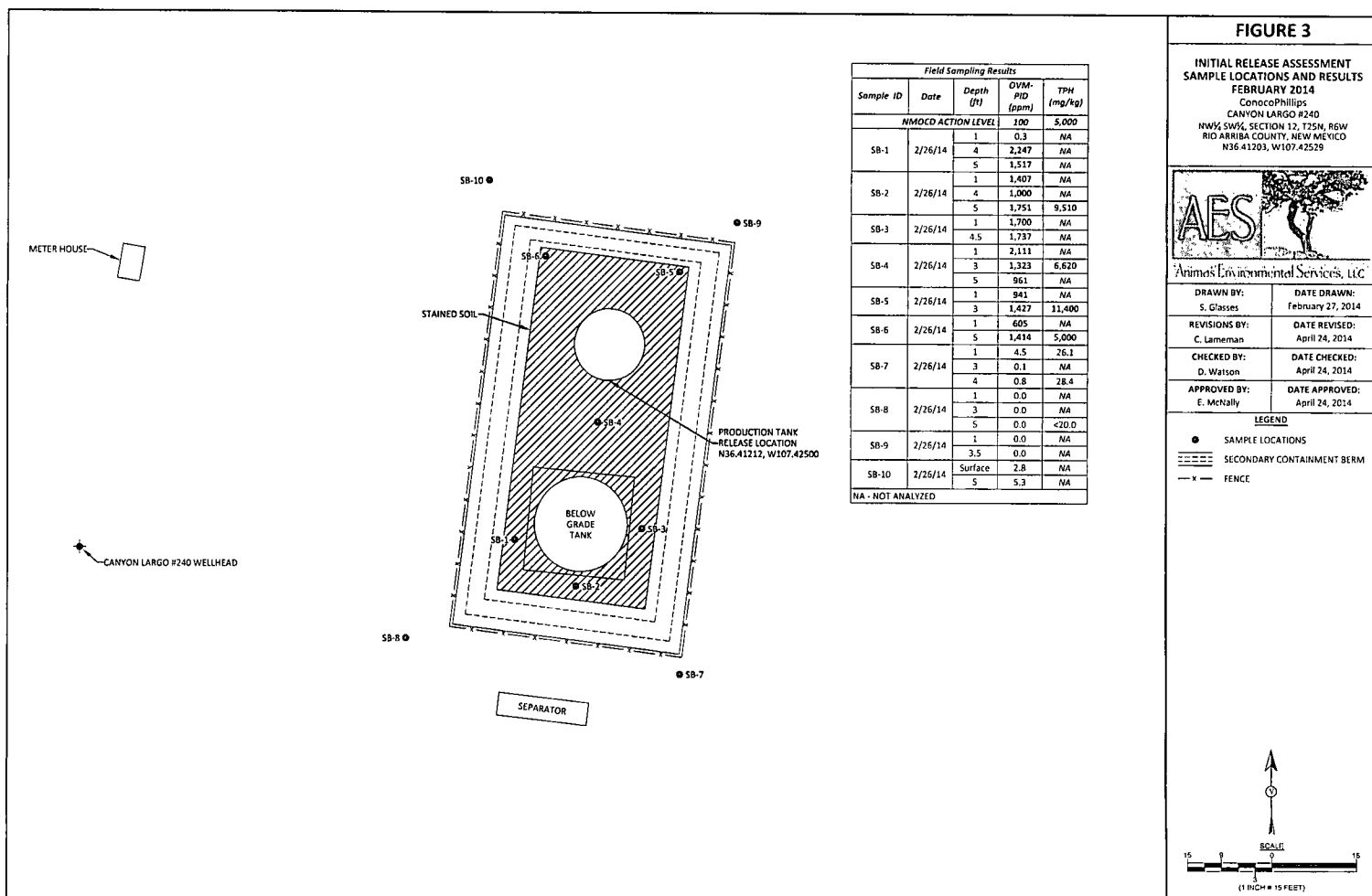
**APPROVED BY:**  
E. McNally

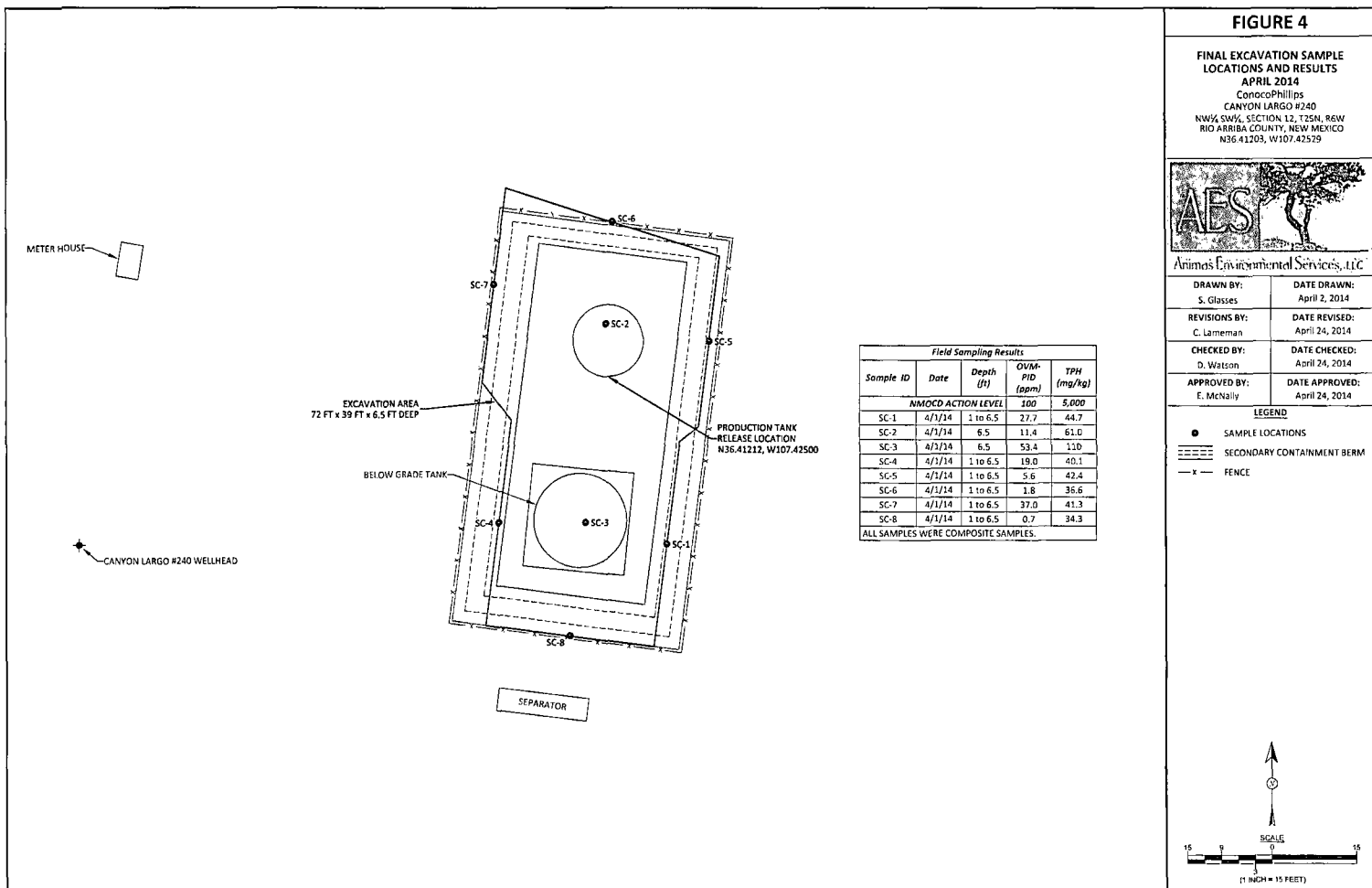
**DATE APPROVED:**  
April 24, 2014

## FIGURE 2

### AERIAL SITE MAP FEBRUARY 2014

ConocoPhillips  
CANYON LARGO #240  
NW¼ SW¼, SECTION 12, T25N, R6W  
RIO ARriba COUNTY, NEW MEXICO  
N36.41203, W107.42529





# AES Field Sampling Report



Animas Environmental Services, LLC

www.animasenvironmental.com

Client: ConocoPhillips

Project Location: Canyon Largo #240

Date: 2/26/2014

Matrix: Soil

624 E. Comanche  
Farmington, NM 87401  
505-564-2288

Durango, Colorado  
970-403-3084

Sample ID	Collection Date	Collection Time	OVM (ppm)	TPH* (mg/kg)	TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ 1'	2/26/2014	12:30	0.3	Not Analyzed for TPH				
SB-1 @ 4'	2/26/2014	12:45	2,247	Not Analyzed for TPH				
SB-1 @ 5'	2/26/2014	12:55	1,517	Not Analyzed for TPH				
SB-2 @ 1'	2/26/2014	13:05	1,407	Not Analyzed for TPH				
SB-2 @ 4'	2/26/2014	13:15	1,000	Not Analyzed for TPH				
SB-2 @ 5'	2/26/2014	13:20	1,751	9,510	15:05	200	10	SL
SB-3 @ 1'	2/26/2014	13:25	1,700	Not Analyzed for TPH				
SB-3 @ 4.5'	2/26/2014	13:35	1,737	Not Analyzed for TPH				
SB-4 @ 1'	2/26/2014	13:40	2,111	Not Analyzed for TPH				
SB-4 @ 3' **	2/26/2014	13:45	1,323	6,620	12:26	200	10	SL
SB-4 @ 5'	2/26/2014	13:55	961	Not Analyzed for TPH				
SB-5 @ 1'	2/26/2014	14:00	941	Not Analyzed for TPH				
SB-5 @ 3' **	2/26/2014	14:05	1,427	11,400	12:35	200	10	SL
SB-6 @ 1'	2/26/2014	14:15	605	Not Analyzed for TPH				
SB-6 @ 5' **	2/26/2014	14:20	1,414	5,000	13:37	200	10	SL
SB-7 @ 1' **	2/26/2014	14:40	4.5	26.1	13:20	20.0	1	SL
SB-7 @ 3'	2/26/2014	14:45	0.1	Not Analyzed for TPH				
SB-7 @ 4'	2/26/2014	14:50	0.8	28.4	15:51	20.0	1	SL
SB-8 @ 1'	2/26/2014	15:00	0.0	Not Analyzed for TPH				
SB-8 @ 3'	2/26/2014	15:05	0.0	Not Analyzed for TPH				
SB-8 @ 5'	2/26/2014	15:10	0.0	16.5	15:53	20.0	1	SL
SB-9 @ 1'	2/26/2014	15:25	0.0	Not Analyzed for TPH				

Sample ID	Collection Date	Collection Time	OVM (ppm)	TPH* (mg/kg)	TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-9 @ 3.5'	2/26/2014	15:30	0.0	Not Analyzed for TPH				
SB-10 @ surface	2/26/2014	15:45	2.8	Not Analyzed for TPH				
SB-10 @ 5'	2/26/2014	16:00	5.3	Not Analyzed for TPH				

DF Dilution Factor

NA Not Analyzed

ND Not Detected at the Reporting Limit

PQL Practical Quantitation Limit

\* TPH concentrations recorded may be below PQL.

\*\* Samples analyzed on 2/27/14.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

*Stephanie Lynn*

## AES Field Sampling Report



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

Client: ConocoPhillips

Project Location: Canyon Largo #240

Date: 4/1/2014

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Locations	OVM (ppm)	TPH* (mg/kg)	TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	4/1/2014	10:56	East Wall (S)	27.7	44.7	11:35	20.0	1	EMS
SC-2	4/1/2014	11:01	Base (N)	11.4	61.0	11:45	20.0	1	EMS
SC-3	4/1/2014	11:05	Base (S)	53.4	110	11:48	20.0	1	EMS
SC-4	4/1/2014	11:15	West Wall (S)	19.0	40.1	12:08	20.0	1	EMS
SC-5	4/1/2014	14:20	East Wall (N)	5.6	42.4	14:45	20.0	1	EMS
SC-6	4/1/2014	14:12	North Wall	1.8	36.6	14:35	20.0	1	EMS
SC-7	4/1/2014	14:05	West Wall (N)	37.0	41.3	14:30	20.0	1	EMS
SC-8	4/1/2014	14:25	South Wall	0.7	34.3	14:48	20.0	1	EMS

DF Dilution Factor

NA Not Analyzed

ND Not Detected at the Reporting Limit

PQL Practical Quantitation Limit

\* TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

*Erin Skelton*