

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**

*Revised*

**OPERATOR**

Initial Report  Final Report

Name of Company <b>ConocoPhillips</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>San Juan 28-7 Unit 222</b>	Facility Type: <b>Gas Well</b>

Surface Owner: <b>Federal</b>	Mineral Owner: <b>Federal SF 079294</b>	API No. <b>30-039-21003</b>
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**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<b>K</b>	<b>25</b>	<b>T28N</b>	<b>R07W</b>	<b>1490</b>	<b>South</b>	<b>1480</b>	<b>West</b>	<b>Rio Arriba</b>

Latitude 36.629171 Longitude -107.52827

**NATURE OF RELEASE**

Type of Release <b>Produced Water</b>	Volume of Release <b>Unknown</b>	Volume Recovered <b>0</b>
Source of Release <b>BGT Activities</b>	Date and Hour of Occurrence <b>Unknown</b>	Date and Hour of Discovery <b>3/18/2013</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour <b>RCVD JAN 29 '14</b>	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>OIL CONS. DIV. DIST. 3</b>	

If a Watercourse was Impacted, Describe Fully.\*

Describe Cause of Problem and Remedial Action Taken.\* **Contaminated soil associated with a historical release was discovered during an equipment reset, on March 18, 2013. Third party environmental was contracted for an assessment.**

Describe Area Affected and Cleanup Action Taken.\*

**The historical release was discovered during equipment reset near the former below grade tank. The final excavation was approximately 30 feet by 21 feet by 10-12 feet in depth. 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>	<u>OIL CONSERVATION DIVISION</u>	
Printed Name: <b>Lindsay Dumas</b>	Approved by Environmental Specialist: <i>Janet D. Kelly</i>	
Title: <b>Field Environmental Specialist</b>	Approval Date: <b>11/12/2014</b>	Expiration Date:
E-mail Address: <b>Lindsay.Dumas@conocophillips.com</b>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <b>10/8/2013</b> Phone: <b>(505) 599-4089</b>		

\* Attach Additional Sheets If Necessary

*NJK:431650293*

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**Release Notification and Corrective Action**

**OPERATOR**

Initial Report  Final Report

Name of Company <b>ConocoPhillips</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>San Juan 28-7 Unit 222</b>	Facility Type: <b>Gas Well</b>

Surface Owner: <b>Federal</b>	Mineral Owner: <b>Federal</b>	API No. <b>30-039-21003</b>
-------------------------------	-------------------------------	-----------------------------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<b>K</b>	<b>25</b>	<b>T28N</b>	<b>R07W</b>	<b>1490</b>	<b>South</b>	<b>1480</b>	<b>West</b>	<b>Rio Arriba</b>

Latitude **36.629171** Longitude **-107.52827**

**NATURE OF RELEASE**

Type of Release <b>Historic Release</b>	Volume of Release <b>Unknown</b>	Volume Recovered <b>Unknown</b>
Source of Release <b>Unknown</b>	Date and Hour of Occurrence <b>Unknown</b>	Date and Hour of Discovery <b>3/18/2013</b>
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	<b>RCVD OCT 10 '13</b>
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. <b>OIL CONS. DIV. DIST. 3</b>	

If a Watercourse was Impacted, Describe Fully.\*

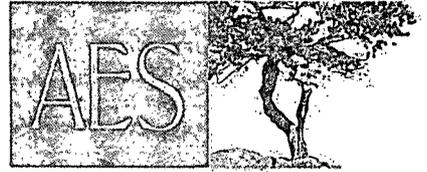
Describe Cause of Problem and Remedial Action Taken.\* **Contaminated soil associated with a historical release was discovered during an equipment reset, on March 18, 2013. Third party environmental was contracted for an assessment.**

Describe Area Affected and Cleanup Action Taken.\* **Historical hydrocarbon impacted soil was found during an equipment reset at this location. 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: <u>Lindsay Dumas</u>	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: <b>Lindsay Dumas</b>	Approved by Environmental Specialist:	
Title: <b>Field Environmental Specialist</b>	Approval Date:	Expiration Date:
E-mail Address: <b>Lindsay.Dumas@conocophillips.com</b>	Conditions of Approval:	Attached <input type="checkbox"/>
Date: <b>10/8/2013</b> Phone: <b>(505) 599-4089</b>		

\* Attach Additional Sheets If Necessary



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

September 9, 2013

Lisa Hunter  
ConocoPhillips  
San Juan Business Unit  
Office 214-4  
5525 Hwy 64  
Farmington, New Mexico 87401

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

**RE: Initial Assessment and Final Excavation Report  
San Juan 28-7 #222  
Rio Arriba County, New Mexico**

Dear Ms. Hunter:

On March 21, 2013, Animas Environmental Services, LLC (AES) completed environmental clearance of the final excavation limits at the ConocoPhillips (CoP) San Juan 28-7 #222, located in Rio Arriba County, New Mexico. The historical release was discovered during an equipment reset near the former below grade tank (BGT) at the location. The final excavation was completed by CoP contractors while AES was onsite.

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## 1.0 Site Information

### 1.1 Location

Location - NW¼ SW¼, Section 25, T28N, R7W, Rio Arriba County, New Mexico  
Well Head Latitude/Longitude - N36.62918 and W107.52886, respectively  
Release Location Latitude/Longitude – N36.62912 and W107.52859, respectively  
Land Jurisdiction – Private

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, March 2013

### 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 40 based on the following factors:

- **Depth to Groundwater:** A C-144 form dated March 2008 for the San Juan 28-7 #211G well, located approximately 2,000 feet northeast of the release area, reported the depth to groundwater as less than 50 feet below ground surface (bgs). (20 points)
- **Wellhead Protection Area:** The release location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** An unnamed wash is located approximately 80 feet southeast of the location and drains to the wash in Adams Canyon. (20 points)

### 1.3 Assessment

AES was initially contacted by Doyle Clark of CoP on March 18, 2013, and on the same day, Heather Woods and Kelsey Christianson of AES completed the release assessment field work. The assessment included collection and field screening of five soil samples from in and around the BGT/historic release area. Based on the field screening results, AES recommended excavation of the release area. Sample locations are shown on Figure 3.

On March 21, 2013, AES returned to the location to provide excavation oversight and continued field screening of the release excavation. The field screening activities included collection of five confirmation soil samples of the walls and base of the final excavation. The final excavation was approximately 30 feet by 21 feet by 10 to 12 feet in depth. Sample locations and final excavation extents are presented on Figure 4.

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## 2.0 Soil Sampling

During the initial assessment on March 18, 2013, AES personnel conducted field screening and collected five soil samples (S-1 through S-5) and one 5-point composite (SC-1) from below the BGT/historic release area. Soil samples were collected from approximately 0.5 feet below the former BGT for field screening of volatile organic compounds (VOCs) and total petroleum hydrocarbon (TPH). Soil sample locations are included on Figure 3.

On March 21, 2013, a total of five composite soil samples (SC-1 through SC-5) were collected from the four walls and the base of the final excavation during the excavation confirmation sampling. All soil samples were field screened for VOCs and were also analyzed for 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 per 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 March 18, 2013, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 12.9 ppm in S-5 up to 3,575 ppm in S-2. Field TPH concentrations ranged from 36.9 mg/kg in S-3 up to greater than 2,500 mg/kg in S-2.

On March 21, 2013, final excavation field screening results for VOCs via OVM showed concentrations ranging from 3.9 ppm in SC-4 to 33.1 ppm in SC-1. Field TPH concentrations ranged from less than 20 mg/kg in SC-1, SC-3, and SC-4 up to 46.8 mg/kg in SC-5. Results are included below in Table 1 and on Figures 3 and 4. The AES Field Screening Reports are attached.

Table 1. Soil Field Screening VOCs and TPH Results  
 San Juan 28-7 #222 Initial Assessment and Final Excavation, March 2013

<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>
<i>NMOCD Action Level*</i>			100	100
S-1	3/18/13	0.5	72.6	129
S-2	3/18/13	0.5	3,575	>2,500
S-3	3/18/13	0.5	29.1	36.9
S-4	3/18/13	0.5	262	119
S-5	3/18/13	0.5	12.9	39.6
SC-1	3/21/13	1 to 8	33.1	<20.0
SC-2	3/21/13	1 to 10	16.9	25.7
SC-3	3/21/13	1 to 10	28.2	<20.0

<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>
<i>NMOCD Action Level*</i>			100	100
SC-4	3/21/13	1 to 12	3.9	<20.0
SC-5	3/21/13	10 to 12	32.9	46.8

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

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### 3.0 Conclusions and Recommendations

On March 18, 2013, AES conducted an initial assessment of petroleum contaminated soils associated with a historical release discovered during an equipment reset at the San Juan 28-7 #222. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Leaks, Spills, and Releases* (August 1993), and the site was assigned a rank of 40. Field screening results above the NMOCD action level of 100 ppm VOCs and 100 mg/kg TPH were reported in S-1, S-2, and S-4. The highest VOC and TPH concentrations were reported in S-2 with 3,575 ppm and greater than 2,500 mg/kg, respectively.

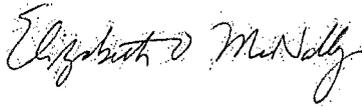
On March 21, 2013, final excavation of the assessment was completed. Field screening results of the final excavation extents showed that VOC and TPH concentrations were below applicable NMOCD action levels for all of the final four walls and the base of the excavation. Based on the final field screening results of the excavation of petroleum contaminated soils at the San Juan 28-7 #222, 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,



Heather M. Woods, P.G.  
Project Manager

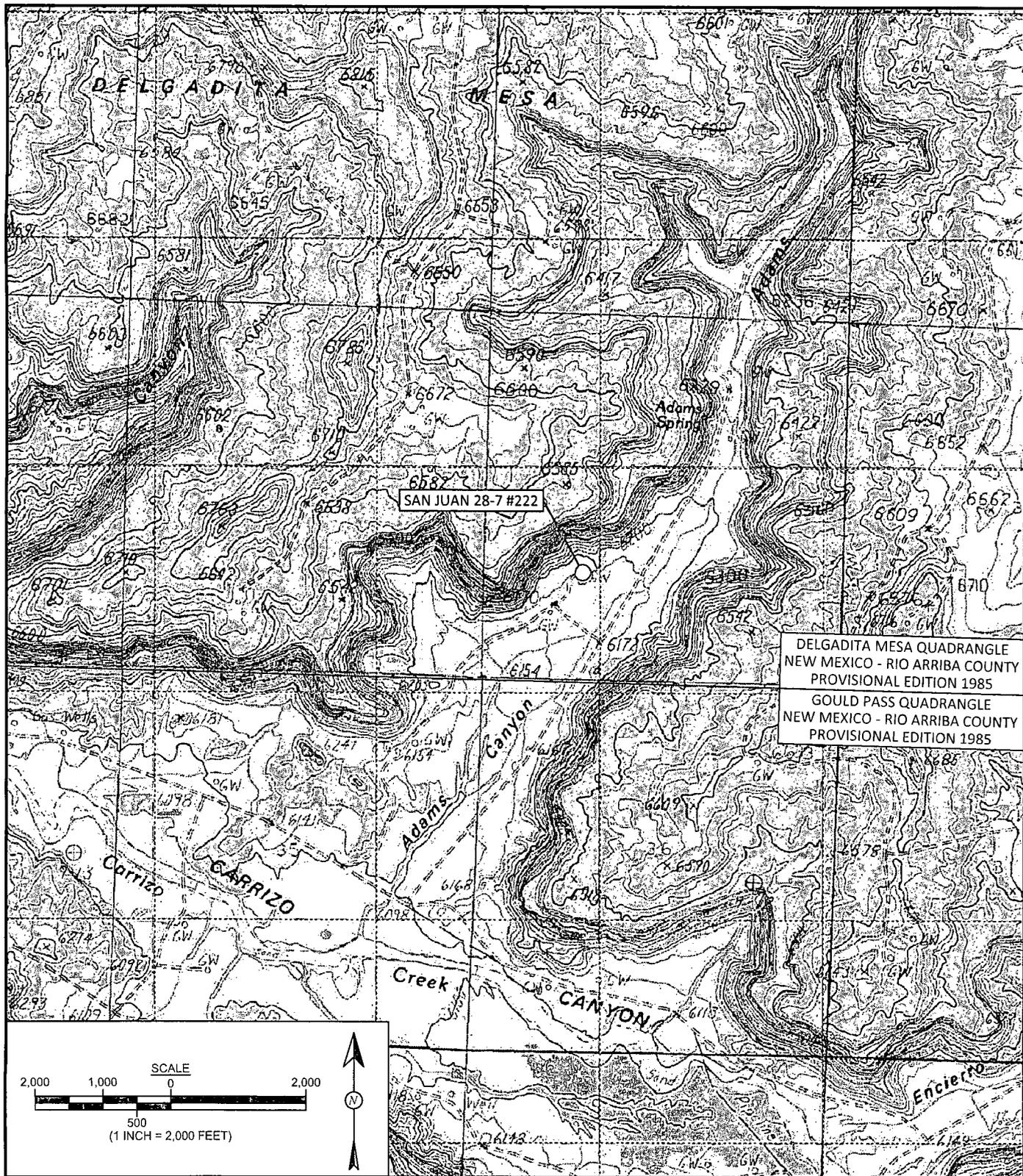


Elizabeth McNally, PE

Attachments:

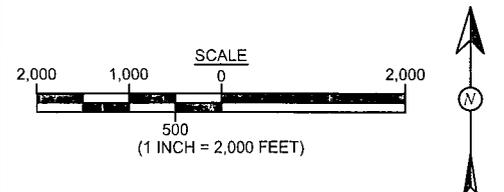
- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, March 2013
- Figure 3. Initial Assessment Sample Locations and Results, March 2013
- Figure 4. Final Excavation Soil Sample Locations and Results, March 2013
- AES Field Screening Reports 031813 and 032113

R:\Animas 2000\Dropbox\2013 Projects\ConocoPhillips\SJ 28-7 #222\SJ 28-7 #222 Final Excavation Report 090913.docx



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

GOULD PASS QUADRANGLE  
 NEW MEXICO - RIO ARRIBA COUNTY  
 PROVISIONAL EDITION 1985

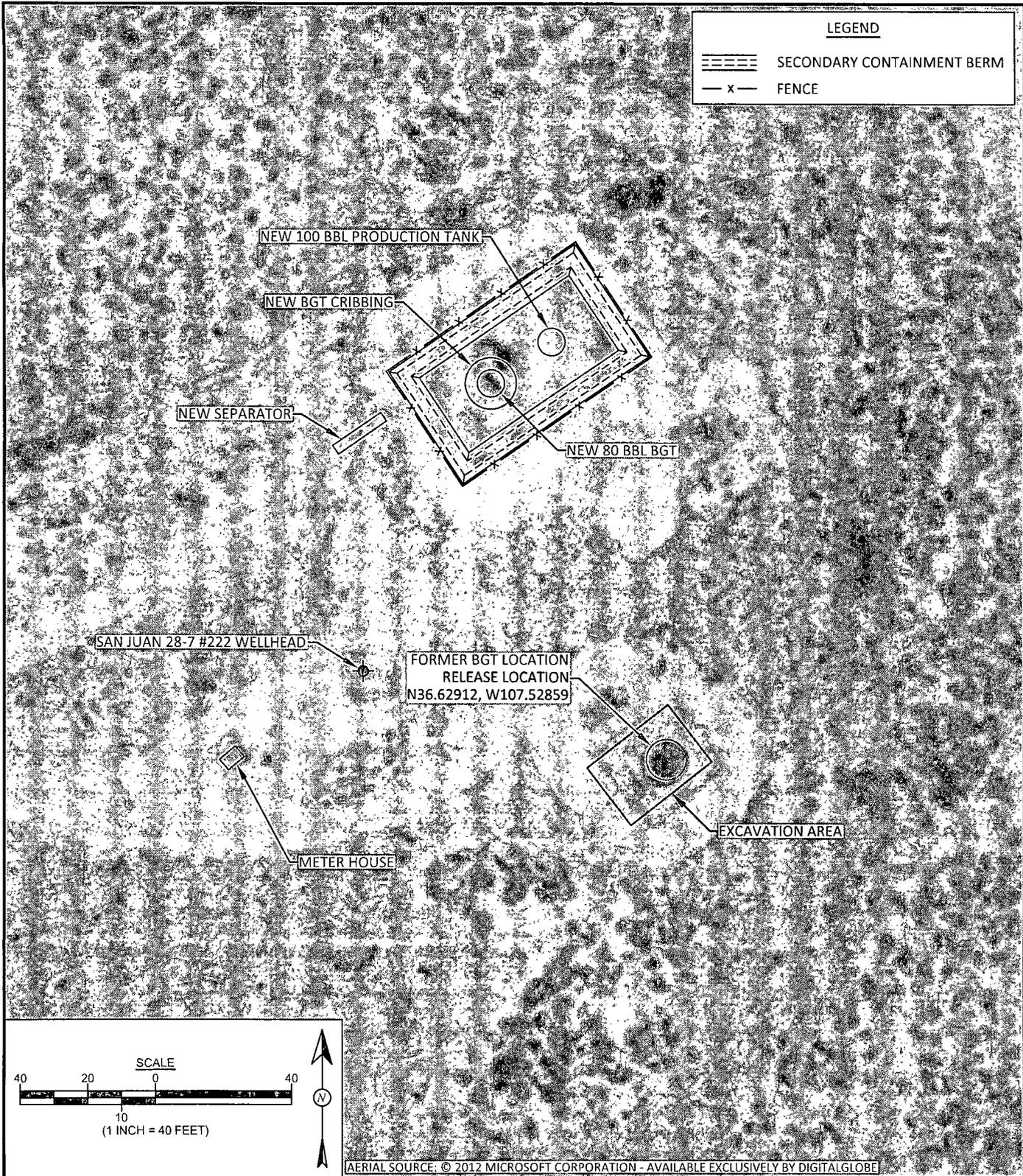


<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> April 3, 2013
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> April 3, 2013
<b>CHECKED BY:</b> D. Watson	<b>DATE CHECKED:</b> April 3, 2013
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> April 3, 2013

**FIGURE 1**

**TOPOGRAPHIC SITE LOCATION MAP**  
 ConocoPhillips  
 SAN JUAN 28-7 #222  
 NW¼ SW¼, SECTION 25, T28N, R7W  
 RIO ARRIBA COUNTY, NEW MEXICO  
 N36.62918, W107.52886

LEGEND	
	SECONDARY CONTAINMENT BERM
	FENCE



AERIAL SOURCE: © 2012 MICROSOFT CORPORATION - AVAILABLE EXCLUSIVELY BY DIGITALGLOBE



<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> April 3, 2013
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> April 3, 2013
<b>CHECKED BY:</b> D. Watson	<b>DATE CHECKED:</b> April 3, 2013
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> April 3, 2013

**FIGURE 2**

**AERIAL SITE MAP  
MARCH 2013**

ConocoPhillips  
SAN JUAN 28-7 #222  
NW¼, SW¼, SECTION 25, T28N, R7W  
RIO ARRIBA COUNTY, NEW MEXICO  
N36.62918, W107.52886

**FIGURE 3**

**INITIAL ASSESSMENT SAMPLE LOCATIONS AND RESULTS MARCH 2013**  
 ConocoPhillips  
 SAN JUAN 28-7 #222  
 NW¼ SW¼, SECTION 25, T28N, R7W  
 RIO ARRIBA COUNTY, NEW MEXICO  
 N36.62918, W107.52886

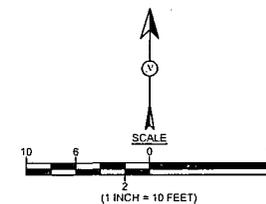


Animas Environmental Services, LLC

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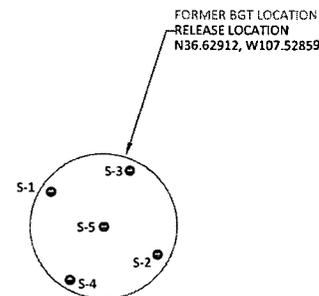
**LEGEND**

● SAMPLE LOCATION



SAN JUAN 28-7 #222 WELLHEAD

Field Screening Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
<b>NMOC D ACTION LEVEL</b>			<b>100</b>	<b>100</b>
S-1	3/18/13	0.5'	72.6	129
S-2	3/18/13	0.5	3,575	>2,500
S-3	3/18/13	0.5	29.1	36.9
S-4	3/18/13	0.5	262	119
S-5	3/21/13	0.5	12.9	39.6



**FIGURE 4**

**FINAL EXCAVATION SAMPLE LOCATIONS AND RESULTS MARCH 2013**  
 ConocoPhillips  
 SAN JUAN 28-7 #222  
 NW¼, SW¼, SECTION 25, T28N, R7W  
 RIO ARRIBA COUNTY, NEW MEXICO  
 N36.62918, W107.52886

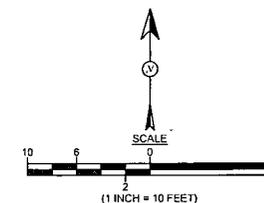


Animas Environmental Services, LLC

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<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> April 3, 2013
<b>CHECKED BY:</b> D. Watson	<b>DATE CHECKED:</b> April 3, 2013
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> April 3, 2013

**LEGEND**

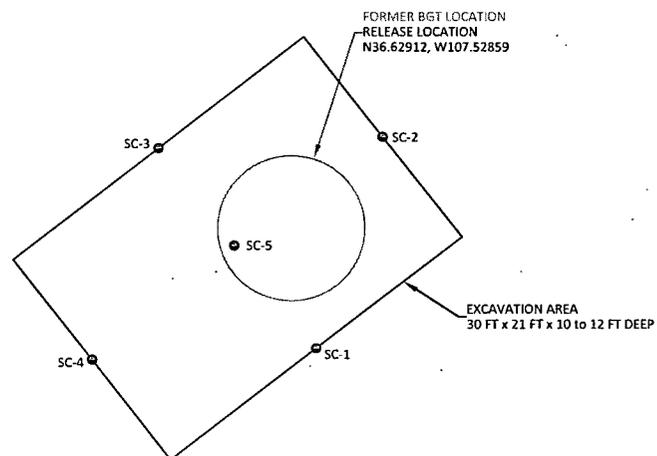
● SAMPLE LOCATION



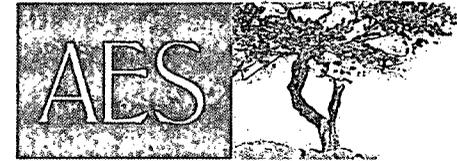
SAN JUAN 28-7 #222 WELLHEAD

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>
SC-1	3/21/13	1 to 8	33.1	<20.0
SC-2	3/21/13	1 to 10	16.9	25.7
SC-3	3/21/13	1 to 10	28.2	<20.0
SC-4	3/21/13	1 to 12	3.9	<20.0
SC-5	3/21/13	10 to 12	32.9	46.8

ALL SAMPLES WERE COMPOSITE SAMPLES.  
 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 28-7 #222

Date: 3/18/2013

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
S-1	3/18/2013	14:18	North	72.6	15:11	129	20.0	1	HMW
S-2	3/18/2013	14:20	South	3,575	15:15	>2,500	20.0	1	HMW
S-3	3/18/2013	14:22	East	29.1	15:20	36.9	20.0	1	HMW
S-4	3/18/2013	14:24	West	262	15:24	119	20.0	1	HMW
S-5	3/18/2013	14:26	Center	12.9	15:28	39.6	20.0	1	HMW

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

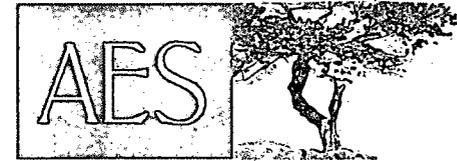
Analyst:

*Leather M. Woods*

\*Field TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

# 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 28-7 #222

Date: 3/21/2013

Matrix: Soil

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field TPH Analysis Time	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	3/21/2013	8:30	East Wall	33.1	9:01	<20.0	20.0	1	HMW
SC-2	3/21/2013	10:04	North Wall	16.9	10:38	25.7	20.0	1	HMW
SC-3	3/21/2013	8:34	West Wall	28.2	9:05	<20.0	20.0	1	HMW
SC-4	3/21/2013	8:36	South Wall	3.9	9:08	<20.0	20.0	1	HMW
SC-5	3/21/2013	12:57	Base	32.9	13:16	46.8	20.0	1	HMW

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

\*Field TPH concentrations recorded may be below PQL.

Total Petroleum Hydrocarbons - USEPA 418.1

Analyst:

*Heather M. Woods*