

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 Burlington Resources, a Wholly Owned Subsidiary of ConocoPhillips Company	Contact Lisa Hunter
Address 3401 East 30th St, Farmington, NM	Telephone No. (505) 326-9786
Facility Name: Roelofs A 1	Facility Type: Gas Well

Surface Owner BLM	Mineral Owner BLM	API No. 3004508491
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LOCATION OF RELEASE

Unit Letter L	Section 10	Township 29N	Range 08W	Feet from the 1650	North/South Line South	Feet from the 990	East/West Line West	County San Juan
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Latitude **36.73698** Longitude **-107.65816**

NATURE OF RELEASE

Type of Release Historic Contamination	Volume of Release Unknown	Volume Recovered 150 yds
Source of Release Water Production Tank	Date and Hour of Occurrence Unknown	Date and Hour of Discovery 12/13/13 @ 9:00 a.m.
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

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

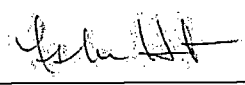
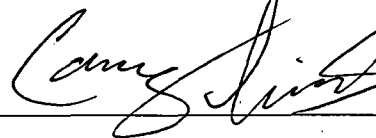
Describe Cause of Problem and Remedial Action Taken.*

Historic hydrocarbon impacted soil was found under Production Tank during a facility reset (Tank on the Ground Project)

Describe Area Affected and Cleanup Action Taken.*

Historic hydrocarbon impacted soil was found under Production Tank during facility reset (Tanks on the Ground Project). The excavation was 24' x 27' x 8' in depth, and 192 yds of soil was transported to IEI land farm and 192 yds of clean soil was placed in the excavation site. 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>OIL CONSERVATION DIVISION</u>	
Printed Name: Lisa Hunter		Approved by Environmental Specialist: 	
Title: Field Environmental Specialist		Approval Date: 5/6/14	Expiration Date:
E-mail Address: Lisa.Hunter@cop.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: February 3, 2014 Phone: (505) 326-9786			

* Attach Additional Sheets If Necessary

#NCS 141 262 6394



Animas Environmental Services, LLC

www.animasenvironmental.com

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

Durango, Colorado
970-403-3084

January 29, 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

RCVD FEB 5 '14
OIL CONS. DIV.
DIST. 3

**RE: Final Excavation Report
Roelofs A #1
San Juan County, New Mexico**

Dear Ms. Hunter:

On December 13, 2013, Animas Environmental Services, LLC (AES) completed an environmental clearance of the final excavation limits at the ConocoPhillips (CoP) Roelofs A #1, located in San Juan County, New Mexico. The historic release was discovered during facility reset activities at the location. The final excavation was completed by CoP contractors while AES was at the location on December 13, 2013.

1.0 Site Information

1.1 Location

Site Name – Roelofs A #1

Location – NW¼ SW¼, Section 10, T29N, R8W, San Juan County, New Mexico

Well Head Latitude/Longitude – N36.73697 and W107.66882, respectively

Release Location Latitude/Longitude – N36.73696 and W107.66847, respectively

Land Jurisdiction – Bureau of Land Management (BLM)

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, December 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 20 based on the following factors:

- **Depth to Groundwater:** A cathodic protection report form dated May 1991 for the Roelofs #200, located approximately 1,145 feet southeast of the location and 50 feet lower in elevation, reported the depth to groundwater at 170 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:** An unnamed wash which discharges to the wash in Escarbada Canyon is located along the northern edge of the location. (20 points)

1.3 Assessment

AES was initially contacted by Fred Martinez, CoP representative on December 13, 2013, and on the same day, Deborah Watson and Jesse Christopherson of AES completed the excavation clearance field work. Field screening activities included collection of five composite soil samples from the walls and base of the excavation. The area of the final excavation was approximately 24 feet by 27 feet by 8 feet in depth. Sample locations and final excavation extents are presented on Figure 3.

2.0 Soil Sampling

A total of 5 composite samples (SC-1 through SC-5) were collected during the assessment. All soil samples were field screened for volatile organic compounds (VOCs) and 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 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 December 13, 2013, field screening results for VOCs via OVM showed concentrations ranging from 0.0 ppm in SC-5 up to 58.0 ppm in SC-1. Field TPH concentrations ranged from 45.0 mg/kg in SC-1 up to 93.9 mg/kg in SC-4. Results are included below in Table 1 and Figure 3. The AES Field Screening Report is attached.

Table 1. Field Screening VOCs and TPH Results
Roelofs A #1 Final Excavation, December 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>			<i>100</i>	<i>100</i>
SC-1	12/13/13	1 to 8	58.0	45.0
SC-2	12/13/13	1 to 8	1.2	53.2
SC-3	12/13/13	1 to 8	47.5	93.9
SC-4	12/13/13	1 to 8	39.4	92.5
SC-5	12/13/13	8	0.0	92.5

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

3.0 Conclusions and Recommendations

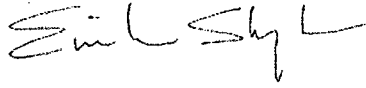
On December 13, 2013, AES completed final clearance of the excavation area associated with petroleum contaminated soils at the Roelofs A #1. Action levels for releases are determined by the NMOCD ranking score per *NMOCD Guidelines for Remediation of Leaks, Spills, and Releases* (August 1993), and the site was assigned a rank of 20.

Field screening results of the excavation extents showed that VOC concentrations were below applicable NMOCD action levels for the final walls and base of the excavation. Field TPH concentrations were also below the applicable NMOCD action level of 100 mg/kg for the final walls and base of the excavation.

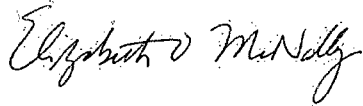
Based on final field screening results of the excavation of petroleum contaminated soils at the Roelofs A #1, VOC and TPH concentrations were below applicable NMOCD action levels for each of the sidewalls and base of the excavation. No further work is recommended.

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, December 2013
- Figure 3. Final Excavation Sample Locations and Results, December 2013
- AES Field Screening Report 121313



Animas Environmental Services, LLC

DRAWN BY:
S. Glasses

DATE DRAWN:
January 15, 2014

REVISIONS BY:
C. Lameman

DATE REVISED:
January 15, 2014

CHECKED BY:
D. Watson

DATE CHECKED:
January 15, 2014

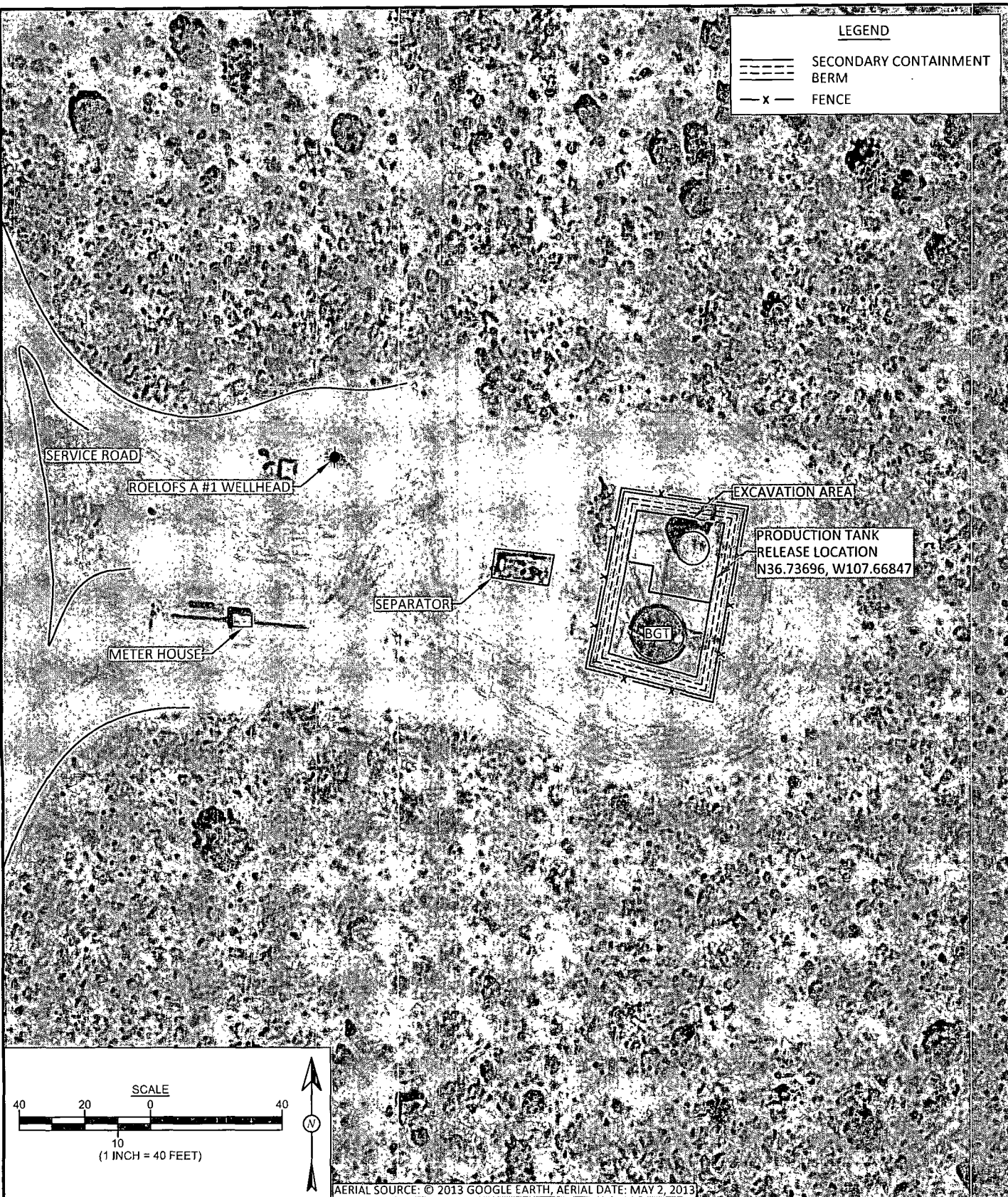
APPROVED BY:
E. McNally

DATE APPROVED:
January 15, 2014

FIGURE 1

TOPOGRAPHIC SITE LOCATION MAP

ConocoPhillips
ROELOFS A #1
NW¼ SW¼, SECTION 10, T29N, R8W
SAN JUAN COUNTY, NEW MEXICO
N36.73697, W107.66882



DRAWN BY: S. Glasses	DATE DRAWN: January 15, 2014
REVISIONS BY: C. Lameman	DATE REVISED: January 15, 2014
CHECKED BY: D. Watson	DATE CHECKED: January 15, 2014
APPROVED BY: E. McNally	DATE APPROVED: January 15, 2014

FIGURE 2

AERIAL SITE MAP DECEMBER 2013

ConocoPhillips
ROELOFS A #1
NW¼ SW¼, SECTION 10, T29N, R8W
SAN JUAN COUNTY, NEW MEXICO
N36.73697, W107.66882

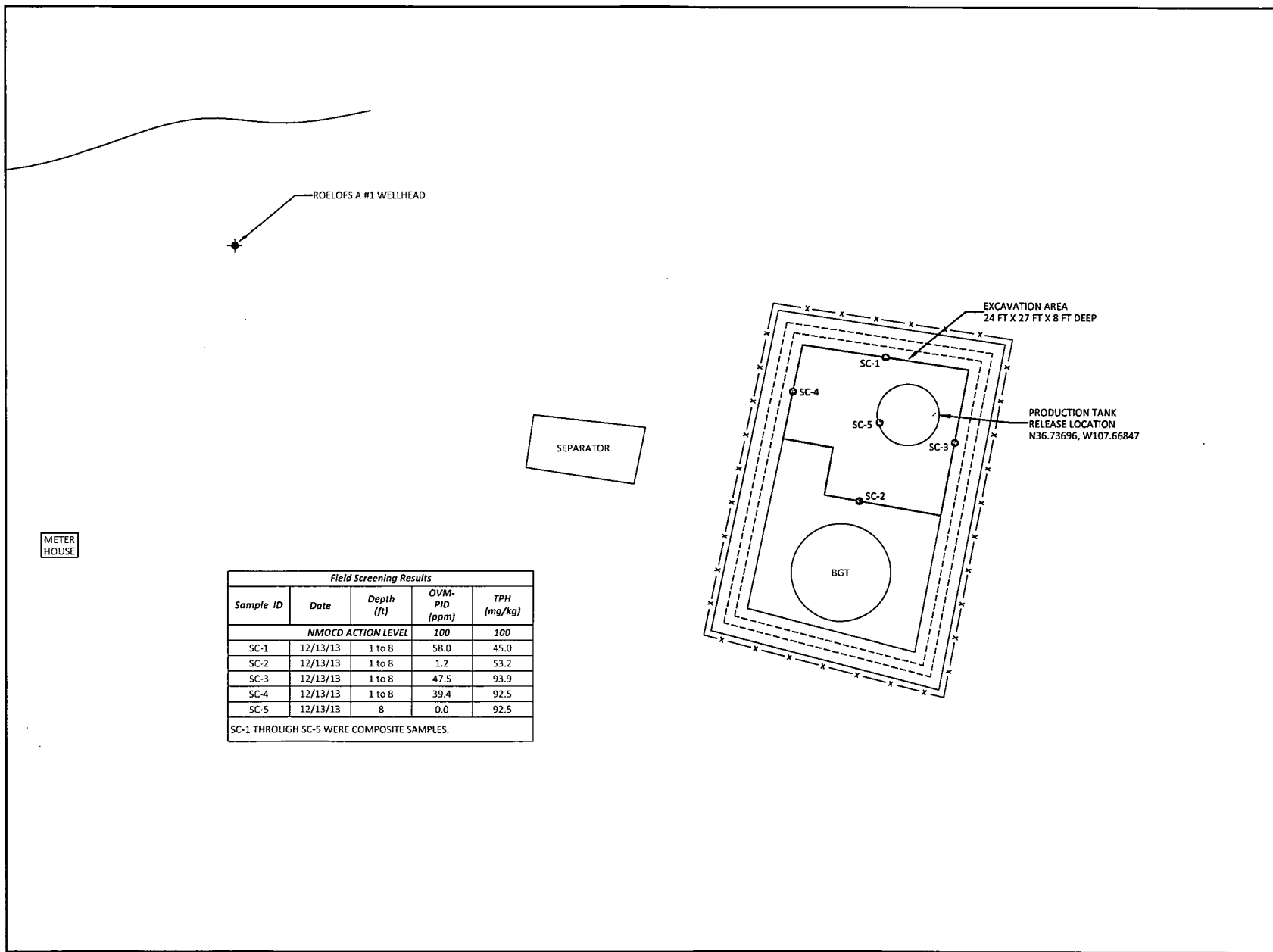


FIGURE 3

**FINAL EXCAVATION SAMPLE
LOCATIONS AND RESULTS
DECEMBER 2013**
ConocoPhillips
ROELOFS A #1
NW¼, SW¼, SECTION 10, T29N, R8W
SAN JUAN COUNTY, NEW MEXICO
N36.73697, W107.66882

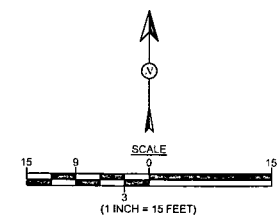


Animas Environmental Services, LLC

DRAWN BY: C. Lameman	DATE DRAWN: January 15, 2014
REVISIONS BY: C. Lameman	DATE REVISED: January 15, 2014
CHECKED BY: D. Watson	DATE CHECKED: January 15, 2014
APPROVED BY: E. McNally	DATE APPROVED: January 15, 2014

LEGEND

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



AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

Client: ConocoPhillips

Project Location: Roelofs A #1

Date: 12/13/2013

Matrix: Soil

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

Durango, Colorado
970-403-3084

Sample ID	Collection Date	Time of Sample Collection	Sample Location	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	12/13/2013	15:30	North Wall	58.0	45.0	16:34	20.0	1	DAW
SC-2	12/13/2013	15:35	South Wall	1.2	53.2	16:08	20.0	1	DAW
SC-3	12/13/2013	15:25	East Wall	47.5	93.9	16:23	20.0	1	DAW
SC-4	12/13/2013	16:30	West Wall	39.4	92.5	16:46	20.0	1	DAW
SC-5	12/13/2013	16:40	Base	0.0	92.5	17:06	20.0	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.*

Field Chloride - Quantab Chloride Titrators or Drop Count
Titration with Silver Nitrate
Total Petroleum Hydrocarbons - USEPA 418.1

Analyst: