

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>Lindrith B #113</b>	Facility Type: <b>Gas Well</b>

Surface Owner <b>BLM</b>	Mineral Owner <b>BLM</b>	API No. <b>3003926766</b>
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#### LOCATION OF RELEASE

Unit Letter <b>O</b>	Section <b>10</b>	Township <b>24N</b>	Range <b>03W</b>	Feet from the <b>330'</b>	North/South Line <b>South</b>	Feet from the <b>2300'</b>	East/West Line <b>East</b>	County <b>Rio Arriba</b>
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Latitude 36.26482 Longitude -107.1407

#### NATURE OF RELEASE

Type of Release <b>Historic Contamination</b>	Volume of Release <b>Unknown</b>	Volume Recovered <b>60 yds</b>
Source of Release <b>Production Tank</b>	Date and Hour of Occurrence <b>Unknown</b>	Date and Hour of Discovery <b>10/01/2013 @ 8:00 a.m.</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>	

RCVD JAN 17 '14

OIL CONS. DIV.  
DIST. 3

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

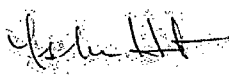
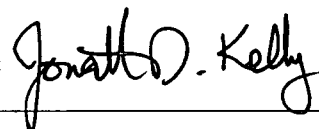
Describe Cause of Problem and Remedial Action Taken.\*

**Historic contamination discovered during a facility reset (and tank inspection). Affected area was sampled and delineated by third-party environmental.**

Describe Area Affected and Cleanup Action Taken.\*

**Historical hydrocarbon impacted soil was discovered during facility reset. The excavation was 33' x 25' x 2-3' in depth and 60 yds of soil was transported to IEI land farm and 60 yds of clean soil was 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: 		OIL CONSERVATION DIVISION	
Printed Name: <b>Lisa Hunter</b>		Approved by Environmental Specialist: 	
Title: <b>Field Environmental Specialist</b>		Approval Date: <b>9/4/2014</b>	Expiration Date:
E-mail Address: <b>Lisa.Hunter@cop.com</b>		Conditions of Approval:	Attached <input type="checkbox"/>
Date: <b>01/15/14</b> Phone: <b>(505) 326-9786</b>			

\* Attach Additional Sheets If Necessary

WJK1424754312



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

January 7, 2014

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

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

**RE: Initial Release Assessment and Final Excavation Report  
Lindrith B #113  
Rio Arriba County, New Mexico**

Dear Ms. Dumas:

On October 1, 2013, Animas Environmental Services, LLC (AES) completed an initial release assessment and environmental clearance of the final excavation limits at the ConocoPhillips (CoP) Lindrith B #113, located in Rio Arriba County, New Mexico. The historic release was discovered during a facility reset. The initial release assessment was completed by AES on October 1, 2013, and the final excavation was completed by CoP contractors that same day.

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## 1.0 Site Information

### 1.1 Location

Site Name – Lindrith B #113

Location – SW¼ SE¼, Section 10, T24N, R3W, Rio Arriba County, New Mexico

Well Head Latitude/Longitude – N36.31867 and W107.14298, respectively

Release Location Latitude/Longitude – N36.31855 and W107.14259, respectively

Land Jurisdiction – Bureau of Land Management

Figure 1. Topographic Site Location Map

Figure 2. Aerial Site Map, October 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 30 based on the following factors:

- **Depth to Groundwater:** A Field Pit Site Assessment form dated August 1994 for the Lindrith B #40, located approximately 1,600 feet southwest of the location and at a similar elevation, reported the depth to groundwater at less than 50 feet below ground surface (bgs). The Lindrith B #113 is approximately 13 feet higher in elevation than Largo Canyon wash. (20 points)
- **Wellhead Protection Area:** The release location is not within a wellhead protection area. (0 points)
- **Distance to Surface Water Body:** Largo Canyon wash is located approximately 615 feet northwest of the location. (10 points)

### *1.3 Assessment*

AES was initially contacted by Lisa Hunter of CoP on October 1, 2013, and on the same day, Deborah Watson of AES completed the release assessment field work. The assessment included collection and field screening of eight soil samples from four assessment trenches (TH-1 to TH-4) in and around the release area. Based on the field screening results, AES recommended further excavation of the release area. Sample locations are shown on Figure 3.

On October 1, 2013, AES collected confirmation soil samples of the excavation. The field screening activities included collection of seven confirmation soil samples from the walls and base of the excavation. The area of the final excavation was approximately 33 feet by 25 feet by 3 to 4 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 eight soil samples from four assessment trenches (TH-1 through TH-4) and seven composite samples (SC-1 through SC-7) were collected during the assessments. 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 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 October 1, 2013, initial assessment field screening results for VOCs via OVM showed concentrations ranging from 2.7 ppm in TH-1 and TH-2 up to 3,157 ppm in TH-1. Field TPH concentrations ranged from 57.1 mg/kg in TH-1 to greater than 2,500 mg/kg also in TH-1.

Final excavation field screening results for VOCs via OVM ranged from 0.8 ppm in SC-4 up to 19.0 ppm in SC-3. Field TPH concentrations ranged from 46.8 mg/kg in SC-4 up to 98.4 mg/kg in SC-7. Results are included below in Table 1 and on Figures 3 and 4. The AES Field Screening Reports are attached.

Table 1. Field Screening VOCs and TPH Results  
Lindrith B #113 Initial Release Assessment and Final Excavation  
October 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>NMOCDC Action Level*</i>			<i>100</i>	<i>100</i>
TH-1	10/1/13	0.5	3,157	>2,500
		2	211	217
		4	2.7	57.1
TH-2	10/1/13	0.5	2.7	NA
		2	4.2	NA
TH-3	10/1/13	0.5	3,031	NA
		2	881	NA
TH-4	10/1/13	0.5	71.4	NA
SC-1	10/1/13	1 to 3	2.3	94.6
SC-2	10/1/13	1 to 3	1.1	55.8
SC-3	10/1/13	3	19.0	59.7
SC-4	10/1/13	1 to 3	0.8	46.8

<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-5	10/1/13	1 to 4	17.4	67.5
SC-6	10/1/13	1 to 4	7.3	95.9
SC-7	10/1/13	4	8.1	98.4

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 October 1, 2013, AES conducted an initial assessment of petroleum contaminated soils associated with a historic release discovered during a facility reset at the Lindrith B #113. 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 30.

Initial assessment field screening results on October 1, 2013, above the NMOCD action level of 100 ppm VOCs and 100 mg/kg TPH were reported in TH-1 and TH-3. The highest VOC concentration was reported in TH-1 with 3,157 ppm, and the highest TPH concentration was also reported in TH-1 with greater than 2,500 mg/kg.

Final clearance of the excavation area was conducted, and 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.

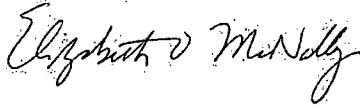
Based on final field screening results of the excavation of petroleum contaminated soils at the Lindrith B #113, VOC and TPH concentrations were below applicable NMOCD action levels for each of the sidewalls and base of the excavation. No further work is recommended.

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

Sincerely,



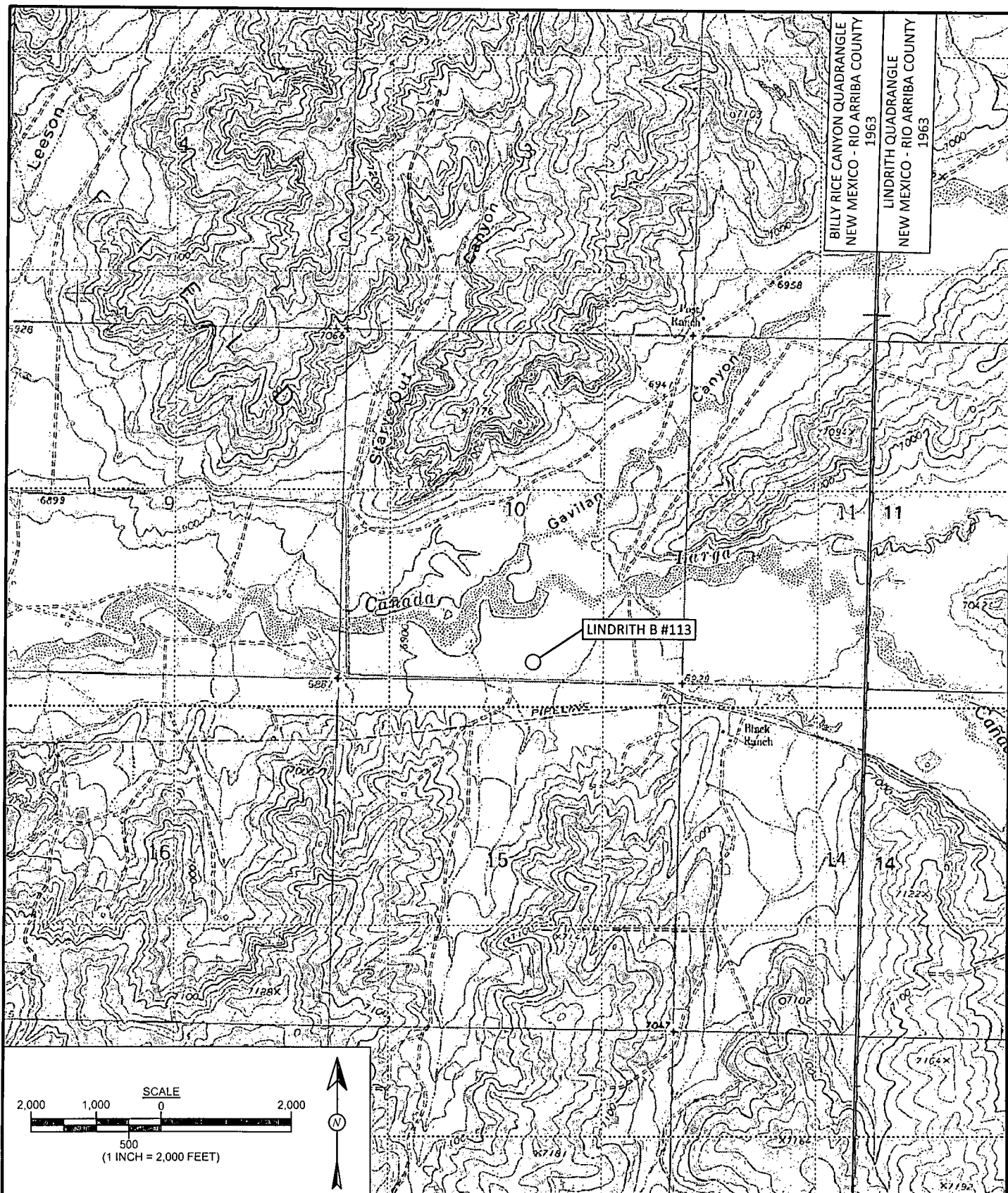
David J. Reese  
Environmental Scientist



Elizabeth McNally, PE

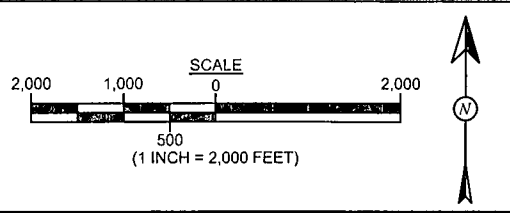
Attachments:


- Figure 1. Topographic Site Location Map
- Figure 2. Aerial Site Map, October 2013
- Figure 3. Initial Assessment Sample Locations and Results, October 2013
- Figure 4. Final Excavation Sample Locations and Results, October 2013
- AES Field Screening Report 100113 (Initial Release Assessment)
- AES Field Screening Report 100113 (Final Excavation)



BILLY RICE CANYON QUADRANGLE  
NEW MEXICO - RIO ARriba COUNTY  
1963

LINDRITH QUADRANGLE  
NEW MEXICO - RIO ARriba COUNTY  
1963



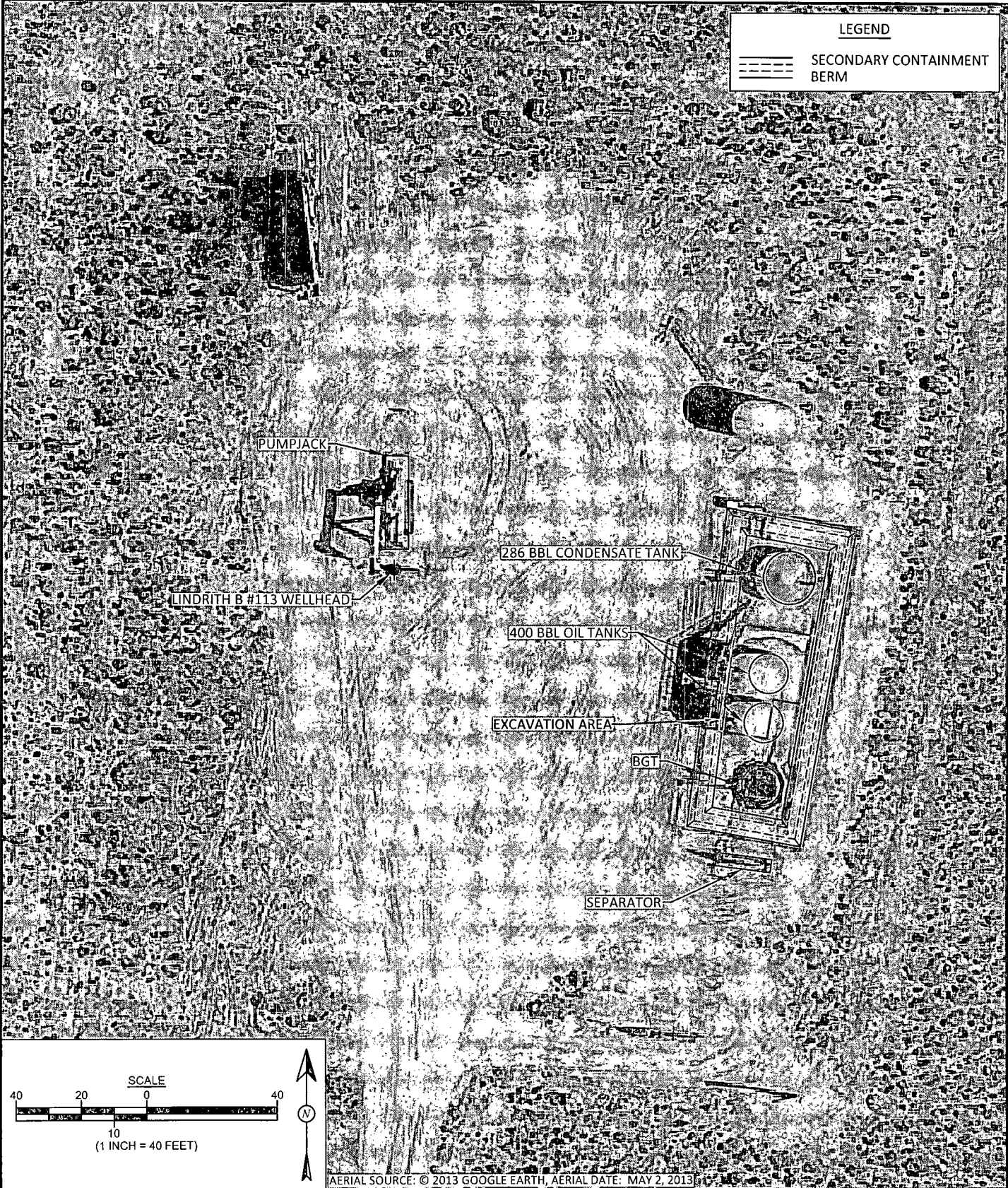
	<b>DRAWN BY:</b> S. Glasses	<b>DATE DRAWN:</b> November 4, 2013	<b>FIGURE 1</b>  <b>TOPOGRAPHIC SITE LOCATION MAP</b> ConocoPhillips LINDRITH B #113 SW¼, SE¼, SECTION 10, T24N, R3W RIO ARriba COUNTY, NEW MEXICO N36.31867, W107.14298
	<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> November 4, 2013	
	<b>CHECKED BY:</b> D. Watson	<b>DATE CHECKED:</b> January 7, 2014	
	<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> January 7, 2014	

Animas Environmental Services, LLC

LEGEND

=====

SECONDARY CONTAINMENT BERM



Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
S. Glasses	November 4, 2013
REVISIONS BY:	DATE REVISED:
C. Lameman	November 4, 2013
CHECKED BY:	DATE CHECKED:
D. Watson	January 7, 2014
APPROVED BY:	DATE APPROVED:
E. McNally	January 7, 2014

FIGURE 2

AERIAL SITE MAP

OCTOBER 2013

ConocoPhillips

LINDRITH B #113

SW¼ SE¼, SECTION 10, T24N, R3W

RIO ARriba COUNTY, NEW MEXICO

N36.31867, W107.14298



# FIGURE 3

INITIAL ASSESSMENT SAMPLE  
LOCATIONS AND RESULTS  
OCTOBER 2013  
ConocoPhillips  
LINDRITH B #113  
SW¼, SE¼, SECTION 10, T24N, R3W  
RIO ARriba COUNTY, NEW MEXICO  
N36.31867, W107.14298



Animas Environmental Services, LLC

DRAWN BY:  
C. Lameman

DATE DRAWN:  
November 4, 2013

REVISIONS BY:  
C. Lameman

DATE REVISED:  
November 4, 2013

CHECKED BY:  
D. Watson

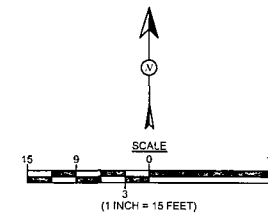
DATE CHECKED:  
January 7, 2014

APPROVED BY:  
E. McNally

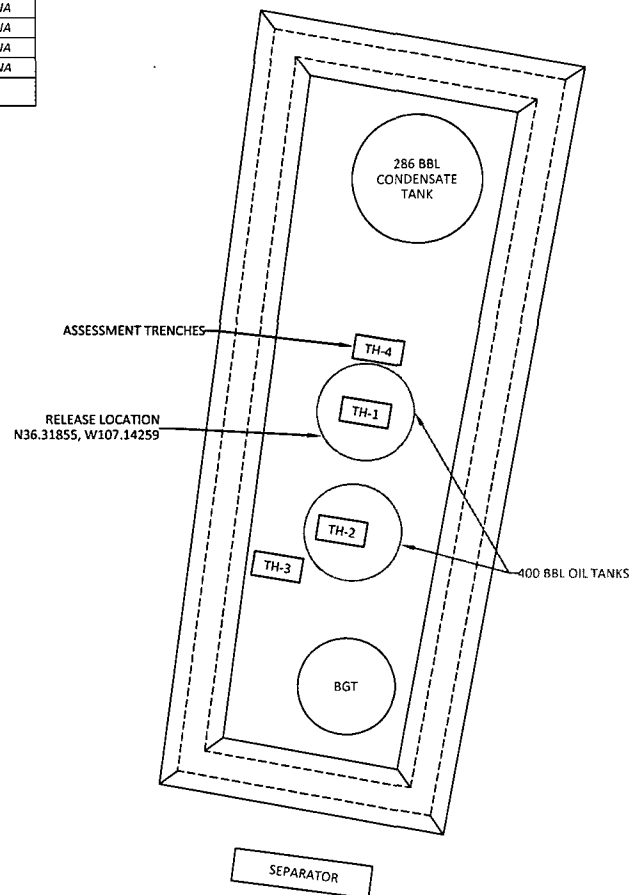
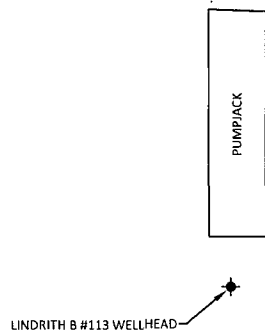
DATE APPROVED:  
January 7, 2014

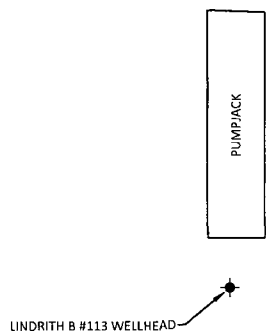
## LEGEND

- SAMPLE LOCATIONS
- ===== SECONDARY CONTAINMENT BERM



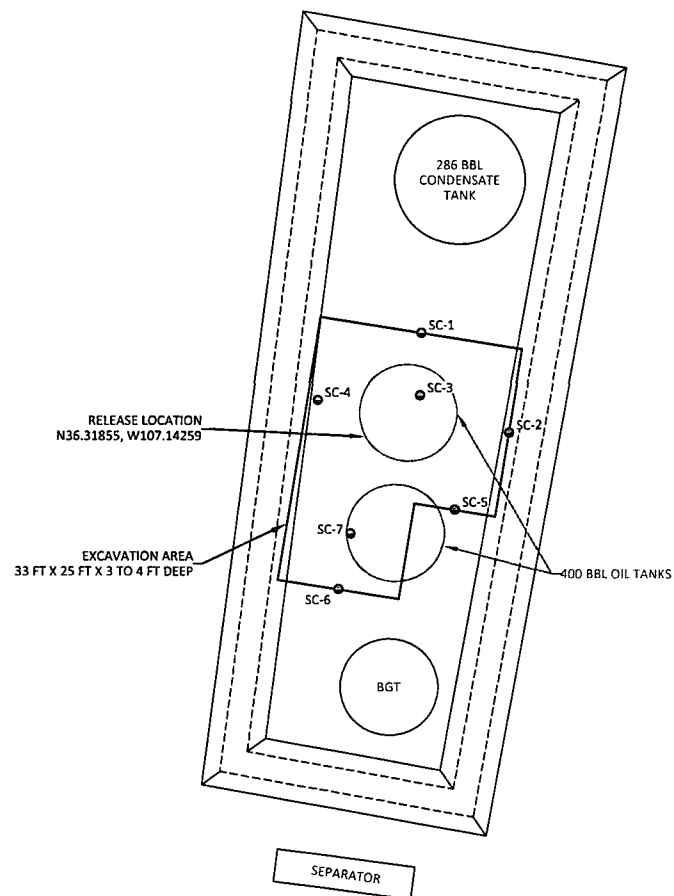
Field Screening Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	100
TH-1	10/1/13	0.5	3,157	>2,500
		2	211	217
		4	2.7	57.1
TH-2	10/1/13	0.5	2.7	NA
		2	4.2	NA
TH-3	10/1/13	0.5	3,031	NA
		2	881	NA
TH-4	10/1/13	0.5	71.4	NA
NA - NOT ANALYZED				





Field Screening Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	100
SC-1	10/1/13	1 to 3	2.3	94.6
SC-2	10/1/13	1 to 3	1.1	55.8
SC-3	10/1/13	3	19.0	59.7
SC-4	10/1/13	1 to 3	0.8	46.8
SC-5	10/1/13	1 to 4	17.4	67.5
SC-6	10/1/13	1 to 4	7.3	95.9
SC-7	10/1/13	4	8.1	98.4

SC-1 THROUGH SC-7 WERE COMPOSITE SAMPLES.



**FIGURE 4**

**FINAL EXCAVATION SAMPLE  
LOCATIONS AND RESULTS  
OCTOBER 2013**  
ConocoPhillips  
LINDRITH B #113  
SW¼, SE¼, SECTION 10, T24N, R3W  
RIO ARRIBA COUNTY, NEW MEXICO  
N36.31867, W107.14298

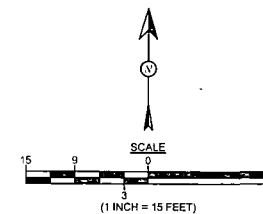


Animas Environmental Services, LLC

<b>DRAWN BY:</b> C. Lameman	<b>DATE DRAWN:</b> November 4, 2013
<b>REVISIONS BY:</b> C. Lameman	<b>DATE REVISED:</b> November 4, 2013
<b>CHECKED BY:</b> D. Watson	<b>DATE CHECKED:</b> January 7, 2014
<b>APPROVED BY:</b> E. McNally	<b>DATE APPROVED:</b> January 7, 2014

**LEGEND**

- SAMPLE LOCATIONS
- === SECONDARY CONTAINMENT BERM



# AES Field Screening Report



Animas Environmental Services, LLC

www.animasenvironmental.com

Client: ConocoPhillips

Project Location: Lindrith B #113

Date: 10/1/2013

Matrix: Soil

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

Durango, Colorado  
970-403-3084

Sample ID	Collection Date	Collection Time	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
TH-1 @ 0.5'	10/1/2013	10:45	3,157	>2,500	11:24	20.0	1	DAW
TH-1 @ 2'	10/1/2013	10:48	211	217	11:20	20.0	1	DAW
TH-1 @ 4'	10/1/2013	10:50	2.7	57.1	11:18	20.0	1	DAW
TH-2 @ 0.5'	10/1/2013	11:30	2.7	Not Analyzed for TPH				
TH-2 @ 2'	10/1/2013	11:32	4.2	Not Analyzed for TPH				
TH-3 @ 0.5'	10/1/2013	11:35	3,031	Not Analyzed for TPH				
TH-3 @ 2'	10/1/2013	11:38	881	Not Analyzed for TPH				
TH-4 @ 0.5'	10/1/2013	11:40	71.4	Not Analyzed for TPH				

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.

Analyst:

*Debrah Watten*

# 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: Lindrith B #113

Date: 10/1/2013

Matrix: Soil

Sample ID	Collection Date	Collection Time	Sample Location	OVM (ppm)	Field TPH* (mg/kg)	Field TPH Analysis Time	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SC-1	10/1/2013	13:50	North Tank North Wall	2.3	94.6	13:45	20.0	1	DAW
SC-2	10/1/2013	14:05	North Tank East Wall	1.1	55.8	14:18	20.0	1	DAW
SC-3	10/1/2013	12:40	North Tank Base	19.0	59.7	13:48	20.0	1	DAW
SC-4	10/1/2013	13:55	North Tank West Wall	0.8	46.8	13:52	20.0	1	DAW
SC-5	10/1/2013	14:00	North Tank South Wall	17.4	67.5	13:58	20.0	1	DAW
SC-6	10/1/2013	15:05	South Tank Wall Composite	7.3	95.9	15:30	20.0	1	DAW
SC-7	10/1/2013	15:07	South Tank Base Composite	8.1	98.4	15:35	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.

Analyst:

Debrah Wata