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 Oil & Gas Company**	Contact **Crystal Tafoya**
Address 3401 East 30th St, Farmington, NM	Telephone No.(505) 326-9837
Facility Name: **Hudson J 3**	Facility Type: **Gas Well**

Surface Owner **BLM**	Mineral Owner **BLM (SF-077922)**	API No.**30-045-11770**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
E	**35**	**30N**	**12W**	**1750**	**North**	**990**	**West**	**San Juan**

Latitude 36.77147 Longitude 108.07268

NATURE OF RELEASE

Type of Release **Produced Water**	Volume of Release **22 bbls**	Volume Recovered **0 bbls**
Source of Release **Pumping Line from Separator**	Date and Hour of Occurrence **Unknown**	Date and Hour of Discovery **1/16/2013 at 3:20pm**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

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

RCVD APR 2'13
OIL CONS. DIV.
DIST. 3

Describe Cause of Problem and Remedial Action Taken.*
2" ball valve on the pumping line at the separator was shut-in and pumping unit continued pumping and broke pressure gauge releasing 22bbls of produced water . Gas supply was shut off and valves shut-in waiting to be repaired.

Describe Area Affected and Cleanup Action Taken.*
Samples were collected and analyticals results for 8021, 8015 and Clorides. The results are below NMOCD Guidelines for Remediation of Leaks, Spills and Releases. No further work will be performed. The final 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: Crystal L. Tafoya	OIL CONSERVATION DIVISION Approved by Environmental Specialist: Jonathon D Kelly
Printed Name: **Crystal Tafoya**	
Title: **Field Environmental Specialist**	Approval Date: 4/4/2013 Expiration Date:
E-mail Address: crystal.tafoya@conocophillips.com	Conditions of Approval: Attached ☐
Date: 4/1/2013 Phone: (505) 326-9837	

* Attach Additional Sheets If Necessary

nJK1309443031

14

Animas Environmental Services, LLC
www.animasenvironmental.com
624 E. Comanche
Farmington, NM 87401
505-564-2281
Durango, Colorado
970-403-3084

March 21, 2013

Crystal Tafoya
ConocoPhillips
San Juan Business Unit
Office 214-05
5525 Hwy 64
Farmington, New Mexico 87401

RE: Initial Release Assessment Report
Hudson J #3
San Juan County, New Mexico

Dear Ms. Tafoya:

On February 5, 2013, Animas Environmental Services, LLC (AES) completed an initial release assessment at the Hudson J #3, located in San Juan County, New Mexico. The release consisted of approximately 22 barrels (bbls) of produced water, which leaked from a failed pressure gauge on the separator at the location.

1.0 Site Information

1.1 Location

Location - SW¼ NW¼, Section 35, T30N, R12W, San Juan County, New Mexico
Well Head Latitude/Longitude – N36.77157 and W108.07353, respectively
Release Latitude/Longitude – N36.77151 and W108.07314, respectively
Land Jurisdiction – Bureau of Land Management (BLM)
Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, February 2013

1.2 NMOCD Ranking

Prior to site work, the New Mexico Oil Conservation Division (NMOCD) database was reviewed, and no ranking information was located. No additional NMOCD records were located. The New Mexico Office of the State Engineer (NMOSE) database was reviewed for the presence of nearby water wells, and no registered water wells were reported to be located within 1,000 feet of the location. Additionally, Google Earth and the New Mexico Tech Petroleum Recovery Research Center online mapping tool (http://ford.nmt.edu/react/project.html) were accessed to aid in the identification of downgradient surface water.

Once on-site, AES personnel assessed the NMOCD ranking criteria using topographical interpretation, Global Position System (GPS) elevation readings, and visual reconnaissance. AES personnel concluded that depth to groundwater at the site is between 50 and 100 feet below ground surface (bgs). An unnamed wash which discharges to the Animas River is located approximately 625 feet northeast of the location. The site location has been assigned a ranking score of 20 per the NMOCD *Guidelines for Leaks, Spills, and Releases* (1993).

1.3 Assessment

AES was initially contacted by Crystal Tafoya of CoP on January 22, 2013, and on February 5, 2012, Heather Woods and Zachary Trujillo of AES completed the release assessment field work. The assessment included collection and field screening of 12 soil samples from six soil borings (SB-1 through SB-6) located near the separator. Sampling locations are shown on Figure 2.

2.0 Soil Sampling

A total of 12 soil samples were collected during the assessment. All soil samples were field screened for volatile organic compounds (VOCs) and total petroleum hydrocarbons (TPH). Additionally, one composite sample (SC-1) comprised of equal portions of samples SB-1 through SB-6 was submitted for laboratory analysis.

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 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 Laboratory Analyses

The composite soil sample collected for laboratory analysis was placed into new, clean, laboratory-supplied containers, which were then labeled, placed on ice, and logged onto a sample chain of custody record. The sample maintained on ice until delivery to the analytical laboratory, Hall Environmental Analysis Laboratory (Hall), in Albuquerque,

New Mexico. Soil sample SC-1 was laboratory analyzed for chloride per USEPA Method 300.0.

2.3 Field Screening and Laboratory Analytical Results

Field screening readings for VOCs via OVM ranged from 0.0 ppm in five samples up to 1.5 ppm in SB-1. Field TPH concentrations ranged from less than 20.0 mg/kg in eight samples up to 52.0 mg/kg if SB-1. Results are included below in Table 1 and on Figure 2. The AES Field Screening Report is attached.

Table 1. Soil Field Screening VOCs and TPH Results
Hudson J #3 Release Assessment, February 2013

Sample ID	*Date Sampled*	*Sample Depth (ft bgs)*	*VOCs via OVM (ppm)*	*Field TPH (mg/kg)*
	NMOCD Action Level*		***100***	***100***
SB-1	02/05/13	Surface	0.8	52.0
		0.5	1.5	22.3
SB-2	02/05/13	Surface	0.1	<20.0
		1.5	0.0	<20.0
SB-3	02/05/13	Surface	0.1	<20.0
		2	0.1	<20.0
SB-4	02/05/13	Surface	0.0	26.0
		1.5	0.0	<20.0
SB-5	02/05/13	Surface	0.6	38.4
		2	0.0	<20.0
SB-6	02/05/13	Surface	0.2	<20.0
		2	0.0	<20.0

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

Laboratory analytical results for SC-1 reported the chloride concentration at 4.3 mg/kg. Results are tabulated on Figure 2. The laboratory analytical report is attached.

3.0 Conclusions and Recommendations

On February 5, 2013, AES conducted an initial assessment of a release of approximately 22 bbl of produced water at the Hudson J #3. 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 ranking of 20. Field screening results reported concentrations below the NMOCD action levels of 100 ppm for VOCs and 100 mg/kg TPH in all collected samples. Laboratory analytical results from February 5, 2013, reported a chloride concentration of 4.3 mg/kg in SC-1.

Based on field screening and laboratory analytical results, which did not exceed applicable NMOCD action levels, CoP will leave residual soils in place. No further work is recommended at the Hudson J #3.

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

Heather M. Woods
Staff Geologist

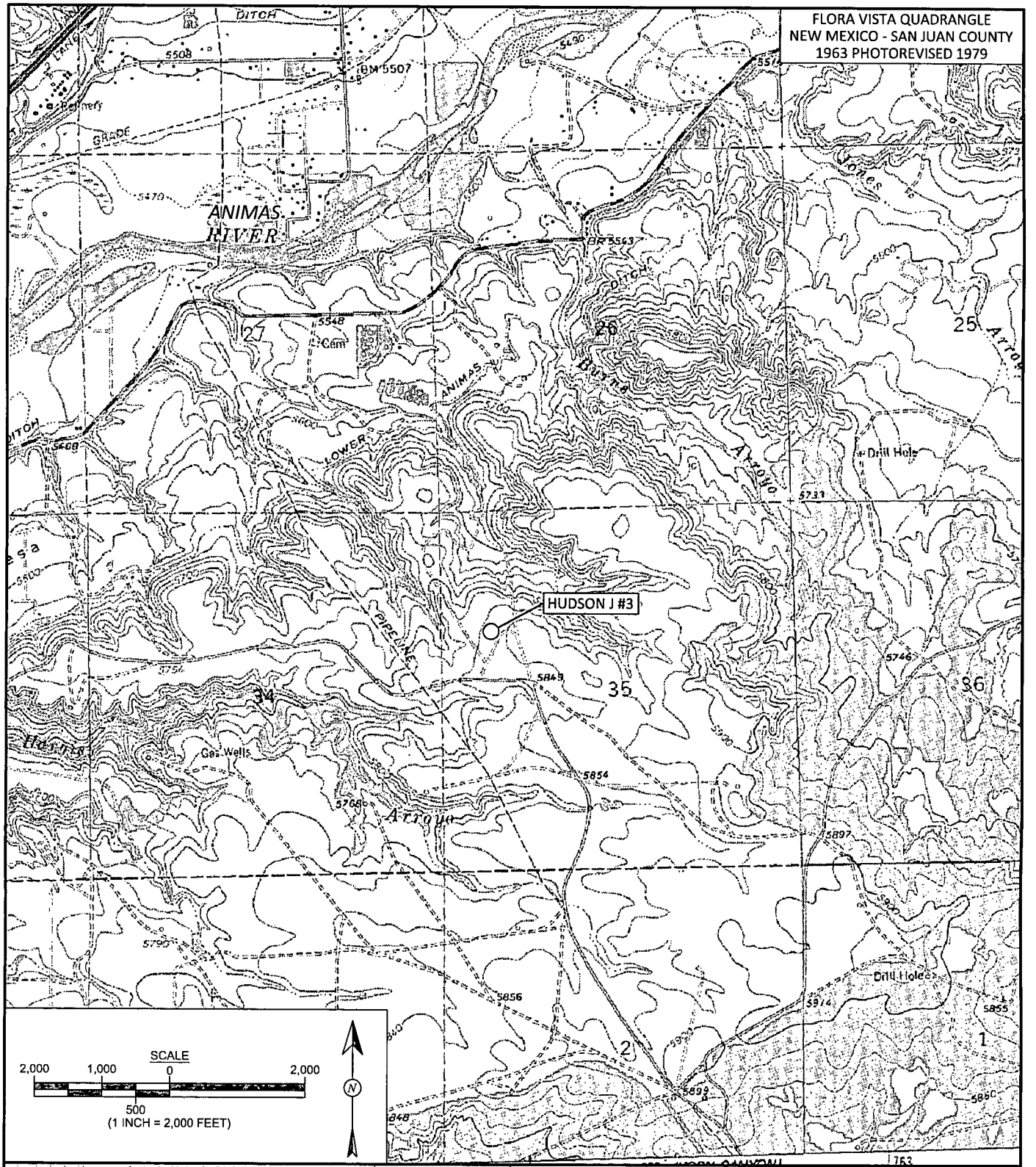
Elizabeth McNally

Elizabeth McNally, PE

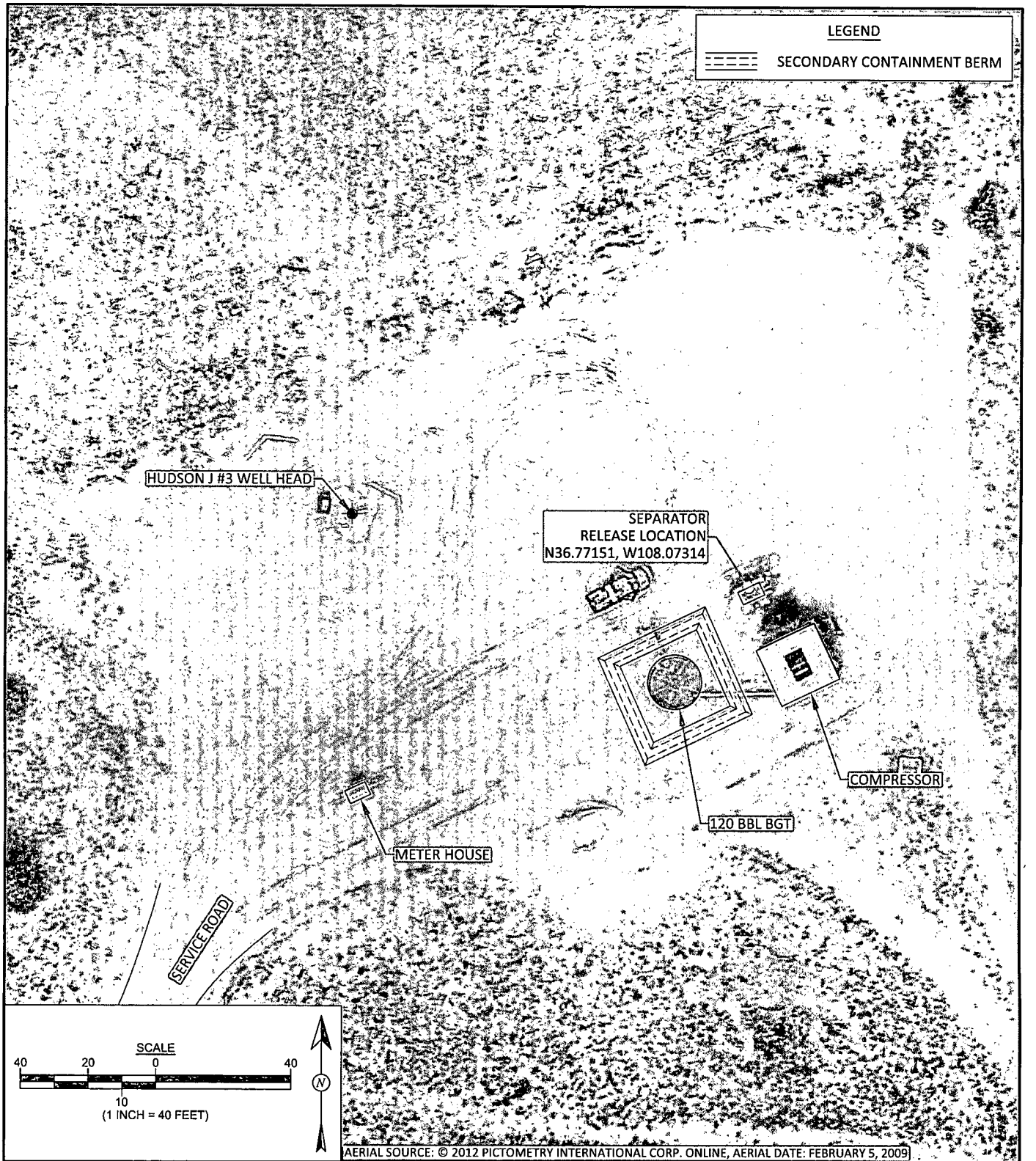
Attachments:

Figure 1. Topographic Site Location Map
Figure 2. Aerial Site Map, February 2013
Figure 3. Initial Assessment Sample Locations and Results, February 2013
AES Field Screening Report 020513
Hall Analytical Report 1302166

R:\Animas 2000\Dropbox\2013 Projects\ConocoPhillips\Hudson J #3\Hudson J #3 Release Assessment Report 032113.docx



Animas Environmental Services, LLC	**DRAWN BY:** C. Lameman	**DATE DRAWN:** February 7, 2013	**FIGURE 1**
	REVISIONS BY: C. Lameman	**DATE REVISED:** February 7, 2013	**TOPOGRAPHIC SITE LOCATION MAP** ConocoPhillips HUDSON J #3 SW¼ NW¼, SECTION 35, T30N, R12W SAN JUAN COUNTY, NEW MEXICO N36.77157, W108.07353
	CHECKED BY: D. Watson	**DATE CHECKED:** February 7, 2013	
	APPROVED BY: E. McNally	**DATE APPROVED:** February 7, 2013	



Animas Environmental Services, LLC

DRAWN BY: C. Lameman	**DATE DRAWN:** February 7, 2013
REVISIONS BY: C. Lameman	**DATE REVISED:** February 7, 2013
CHECKED BY: D. Watson	**DATE CHECKED:** February 7, 2013
APPROVED BY: E. McNally	**DATE APPROVED:** February 7, 2013

FIGURE 2

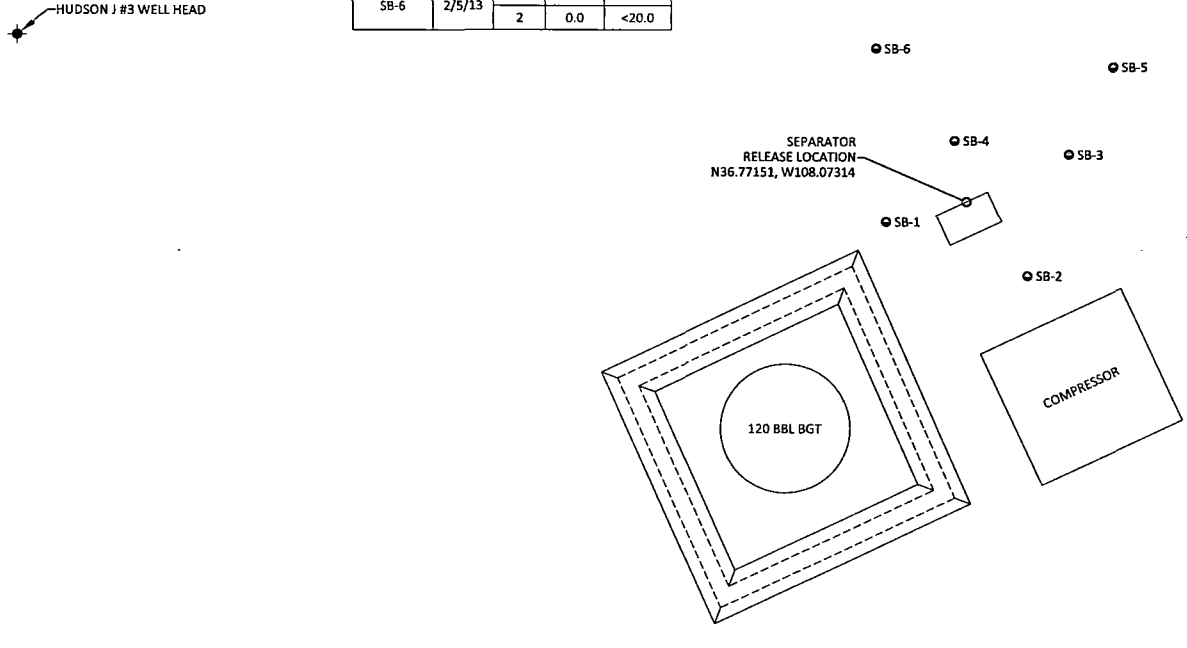
AERIAL SITE MAP
FEBRUARY 2012
ConocoPhillips
HUDSON J #3
SW¼ NW¼, SECTION 35, T30N, R12W
SAN JUAN COUNTY, NEW MEXICO
N36.77157, W108.07353

FIGURE 3

INITIAL ASSESSMENT SAMPLE LOCATIONS AND RESULTS
FEBRUARY 2013
ConocoPhillips
HUDSON J #3
SW¼ NW¼, SECTION 35, T30N, R12W
SAN JUAN COUNTY, NEW MEXICO
N36.77157, W108.07353

Field Screening Results				
Sample ID	Date	Depth (ft)	OVM-PID (ppm)	TPH (mg/kg)
NMOCD ACTION LEVEL			100	1,000
SB-1	2/5/13	Surface	0.8	52.0
		0.5	1.5	22.3
SB-2	2/5/13	Surface	0.1	<20.0
		1.5	0.0	<20.0
SB-3	2/5/13	Surface	0.1	<20.0
		2	0.1	<20.0
SB-4	2/5/13	Surface	0.0	26.0
		1.5	0.0	<20.0
SB-5	2/5/13	Surface	0.6	38.4
		2	0.0	<20.0
SB-6	2/5/13	Surface	0.2	<20.0
		2	0.0	<20.0

Laboratory Analytical Results			
Sample ID	Date	Depth (ft)	Chlorides (mg/kg)
NMOCD ACTION LEVEL			250
SC-1	2/5/13	Surface	4.3
SC-1 IS A COMPOSITE OF SB-1 THROUGH SB-6 AT THE SURFACE. SAMPLE WAS ANALYZED PER EPA METHOD 300.0.			



Animas Environmental Services, LLC

DRAWN BY:	DATE DRAWN:
C. Lameman	February 7, 2013
REVISIONS BY:	DATE REVISED:
C. Lameman	February 13, 2013
CHECKED BY:	DATE CHECKED:
H. Woods	February 13, 2013
APPROVED BY:	DATE APPROVED:
E. McNally	February 13, 2013

LEGEND

- SAMPLE LOCATIONS
- SECONDARY CONTAINMENT BERM

N

SCALE
15 9 0 15
3
(1 INCH = 15 FEET)

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: Hudson J #3

Date: 2/5/2013

Matrix: Soil

Sample ID	Collection Date	Collection Time	OVM (ppm)	Time of Sample Analysis	Field TPH* (mg/kg)	TPH PQL (mg/kg)	DF	TPH Analysts Initials
SB-1 @ Surface	2/5/2013	11:43	0.8	12:38	52.0	20.0	1	HMW
SB-1 @ 0.5'	2/5/2013	11:52	1.5	12:31	22.3	20.0	1	HMW
SB-2 @ Surface	2/5/2013	11:58	0.1	13:04	<20.0	20.0	1	HMW
SB-2 @ 1.5'	2/5/2013	12:02	0.0	13:06	<20.0	20.0	1	HMW
SB-3 @ Surface	2/5/2013	12:05	0.1	13:08	<20.0	20.0	1	HMW
SB-3 @ 2'	2/5/2013	12:06	0.1	13:11	<20.0	20.0	1	HMW
SB-4 @ Surface	2/5/2013	12:14	0.0	13:14	26.0	20.0	1	HMW
SB-4 @ 1.5'	2/5/2013	12:15	0.0	13:16	<20.0	20.0	1	HMW
SB-5 @ Surface	2/5/2013	12:20	0.6	13:18	38.4	20.0	1	HMW
SB-5 @ 2'	2/5/2013	12:23	0.0	13:20	<20.0	20.0	1	HMW
SB-6 @ Surface	2/5/2013	12:26	0.2	13:23	<20.0	20.0	1	HMW
SB-6 @ 2'	2/5/2013	12:29	0.0	13:25	<20.0	20.0	1	HMW

Total Petroleum Hydrocarbons - USEPA 418.1

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

**Field TPH concentrations recorded may be below PQL.*

Analyst: Heather M. Woods

Report Finalized: 02/05/13

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

February 12, 2013

Debbie Watson

Animas Environmental Services
624 East Comanche
Farmington, NM 87401
TEL: (505) 486-4071
FAX

RE: CoP Hudson J #3 OrderNo.: 1302166

Dear Debbie Watson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 2/6/2013 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1302166**
Date Reported: **2/12/2013**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Animas Environmental Services
Project: CoP Hudson J #3
Lab ID: 1302166-001 **Matrix:** SOIL

Client Sample ID: SC-1
Collection Date: 2/5/2013 1:12:00 PM
Received Date: 2/6/2013 10:00:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **JRR**
Chloride	4.3	1.5		mg/Kg	1	2/8/2013 2:22:36 PM

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
P	Sample pH greater than 2	R	RPD outside accepted recovery limits
RL	Reporting Detection Limit	S	Spike Recovery outside accepted recovery limits

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1302166**

12-Feb-13

Client: Animas Environmental Services

Project: CoP Hudson J #3

Sample ID **MB-6048**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **6048**	RunNo: **8546**
Prep Date: **2/8/2013**	Analysis Date: **2/8/2013**	SeqNo: **245854** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID **LCS-6048**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **6048**	RunNo: **8546**
Prep Date: **2/8/2013**	Analysis Date: **2/8/2013**	SeqNo: **245855** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	97.4	90	110			

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits

HALL ENVIRONMENTAL ANALYSIS LABORATORY

Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 8710S
TEL: 505-345-3975 FAX: 505-345-410;
Website: www.hallenvironmental.com

Sample Log-In Check List

Client Name: Animas Environmental — Work Order Number: 1302166

Received by/date: LM 02/06/13

Logged By: Michelle Garcia 2/6/2013 10:00:00 AM Michelle Garcia

Completed By: Michelle Garcia 2/6/2013 10:09:24 AM Michelle Garcia

Reviewed By: 02/06/13

Chain of Custody

1. Were seals intact? Yes ☐ No ☐ Not Present ☑
2. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
3. How was the sample delivered? Courier

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☑ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? _____
Checked by: _____

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: _____ Date: _____
By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: _____
Client Instructions: _____

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.0	Good	Yes			

Chain-of-Custody Record

Client: Animas Environmental Services

Mailing Address: 624 E. Comanche
Farmington, NM 87401

Phone #: 505-564-2281

email or Fax#:

QA/QC Package:
☒ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☒ Standard ☐ Rush

Project Name:
CoP Hudson J #3

Project #:

Project Manager:
D. Watson

Sampler: H. Woods

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.0

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1302166	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F, Cl, NO_3, NO_2, PO_4, SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Air Bubbles (Y or N)
2/5/13	1312	Soil	SC-1	1-4oz Jar	—	-001								X				

Analysis Request

Relinquished by:	Received by:	Date	Time
Heather M. Woods	Christine Walters	2/5/13	1657
Christine Walters		2/5/13	1725
		02/06/13	1000

Remarks: Bill to ConocoPhillips
WO:
Area: 3
Ordered by: Crystal Tafoya
Supervisor: Jack Birchfield
USER: BENALE

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.