

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 October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

### Release Notification and Corrective Action

#### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company <b>ConocoPhillips Company</b>	Contact <b>Shelly Cook-Cowden</b>
Address <b>3401 E. 30<sup>th</sup> St., Farmington, NM 87402</b>	Telephone No. <b>505-324-5140</b>
Facility Name: <b>Nickson #13</b>	Facility Type: <b>Gas API 3004520168</b>

Surface Owner: <b>Federal</b>	Mineral Owner: <b>Federal</b>	Lease No.: <b>SF - 078431</b>
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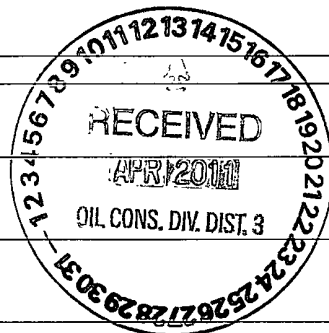
#### LOCATION OF RELEASE

Unit Letter <b>M</b>	Section <b>26</b>	Township <b>26N</b>	Range <b>8W</b>	Feet from the <b>790</b>	North/South Line <b>SOUTH</b>	Feet from the <b>915</b>	East/West Line <b>WEST</b>	County <b>San Juan</b>
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Latitude **36.45261° N** Longitude **-107.65773° W**

#### NATURE OF RELEASE

Type of Release: <b>Produced Water</b>	Volume of Release: <b>Unknown</b>	Volume Recovered
Source of Release: <b>BGT Activities</b>	Date and Hour of Occurrence <b>Unknown</b>	Date and Hour of Discovery <b>February 16, 2011</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	
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.* <b>Below Grade Tank closure activities</b>		
Describe Area Affected and Cleanup Action Taken.* <b>The below grade tank sample results were above the regulatory standard for TPH, confirming a release. A site assessment was then conducted and the closure standard was determined to be 100 ppm TPH. Since the sample results were below the regulatory standards set forth in the NMOCD Guidelines for Remediation of Leaks, Spills and Releases no further action is required.</b>		
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>Shelly Cook-Cowden</i>		OIL CONSERVATION DIVISION	
Printed Name: Shelly Cook-Cowden		Approved by District Supervisor: <i>Bob Bell</i>	
Title: Environmental Technician		Approval Date: <i>4/13/11</i>	Expiration Date:
E-mail Address: <i>Shelly.g.Cook-Cowden@ConocoPhillips.com</i>		Conditions of Approval: <i>nJK112214660</i>	Attached <input type="checkbox"/>
Date: April 11, 2011 Phone: 505-324-5140			

\* Attach Additional Sheets If Necessary



April 5, 2011

Project Number 96052-1897

Ms. Shelly Cook-Cowden  
ConocoPhillips  
3401 East 30<sup>th</sup> Street  
Farmington, New Mexico 87401

Phone: (505) 599-3403

**RE: BELOW-GRADE TANK CLOSURE DOCUMENTATION FOR THE NICKSON #13 WELL SITE, SAN JUAN COUNTY, NEW MEXICO**

Dear Ms. Cook-Cowden,

Enclosed please find the field notes and analytical results for below-grade tank (BGT) closure activities performed at the Nickson #13 well site located in Section 26, Township 26 North, Range 8 West, San Juan County, New Mexico. Upon Envirotech personnel's arrival on February 16, 2011, one (1) five (5)-point composite sample was collected from beneath the former BGT. The sample was analyzed in the field for total petroleum hydrocarbons (TPH) using USEPA Method 418.1, for organic vapors using a photoionization detector (PID), and for chlorides. The sample returned results above the regulatory standard of 100 parts per million (ppm) TPH, confirming a release did occur.

A brief site assessment was conducted and the regulatory standards were determined to be 5000 ppm TPH and 100 ppm organic vapors pursuant to New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Spills, Leaks, and Releases. The sample from beneath the former BGT returned results below the regulatory standard for TPH using USEPA Method 418.1; see attached *Field Notes*.

Envirotech personnel revisited the site on March 1, 2011, to collect one (1) sample from the former BGT. The sample was collected six (6) feet below ground surface (BGS) from the center of the former BGT. The sample was analyzed in the field for TPH using USEPA Method 418.1, for organic vapors using a PID, and for chlorides. Additionally, the sample was placed into a four (4)-ounce glass jar, capped headspace free, and transported on ice, under chain of custody, to Envirotech's Analytical Laboratory to be analyzed for benzene and BTEX using USEPA Method 8021 and for total chlorides using USEPA Method 4500. The sample returned results below the regulatory standards for all constituents analyzed; see attached *Analytical Results*.

PAGE NO: <u>1</u> OF <u>1</u> DATE STARTED: <u>2-16-11</u> DATE FINISHED: <u>2-16-11</u>	<b>ENVIROTECH INC</b> ENVIRONMENTAL SCIENTISTS & ENGINEERS 5796 U.S. HIGHWAY 64 - 3014 FARMINGTON, NEW MEXICO 87401 PHONE: (505) 632-0615	ENVIRONMENTAL SPECIALIST: <u>SCOTT</u> LAT: <u>36.45229289</u> LONG: <u>-107.658456</u>
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### FIELD REPORT: BGT / PIT CLOSURE VERIFICATION

LOCATION: NAME: <u>Nickson</u>	WELL #: <u>13</u>	TEMP PIT: <u>  </u>	PERMANENT PIT: <u>  </u>	BGT: <u>✓</u>
LEGAL ADD: UNIT: <u>  </u>	SEC: <u>26</u>	TWP: <u>26N</u>	RNG: <u>8W</u>	PM: <u>NMPM</u>
QTR/FOOTAGE: <u>  </u>	CNTY: <u>SAN JUAN</u>	ST: <u>NM</u>		

EXCAVATION APPROX: <u>  </u> FT. X <u>  </u> FT. X <u>  </u> FT. DEEP	CUBIC YARDAGE: <u>  </u>
DISPOSAL FACILITY: <u>  </u>	REMEDICATION METHOD: <u>  </u>
LAND OWNER: <u>  </u>	API: <u>  </u> BGT / PIT VOLUME: <u>99661</u>
CONSTRUCTION MATERIAL: <u>Steel</u>	DOUBLE-WALLED, WITH LEAK DETECTION: <u>Single</u>

LOCATION APPROXIMATELY: <u>10.8</u> FT. <u>170</u> FROM WELLHEAD
DEPTH TO GROUNDWATER: <u>7100</u>

#### TEMPORARY PIT - GROUNDWATER 50-100 FEET DEEP

BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, GRO & DRO FRACTION (8015) ≤ 500 mg/kg, TPH (418.1) ≤ 2500 mg/kg, CHLORIDES ≤ 500 mg/kg

#### TEMPORARY PIT - GROUNDWATER ≥100 FEET DEEP

BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, GRO & DRO FRACTION (8015) ≤ 500 mg/kg, TPH (418.1) ≤ 2500 mg/kg, CHLORIDES ≤ 1000 mg/kg

#### ✓ PERMANENT PIT OR BGT

BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, TPH (418.1) ≤ 100 mg/kg, CHLORIDES ≤ 250 mg/kg

#### FIELD 418.1 ANALYSIS

TIME	SAMPLE ID	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. (mg/kg)
9:45	200 STD					201	
10:00	Spill Comp	1	5	20	4	165	660
		2					
		3					
		4					
		5					
		6					

#### PERIMETER

#### FIELD CHLORIDES RESULTS

#### PROFILE

<div style="border: 1px solid black; padding: 5px; width: 50px; float: left; margin-bottom: 10px;">MH</div> <div style="border: 1px solid black; padding: 5px; width: 50px; float: left; margin-bottom: 10px;">⊕</div> <div style="border: 1px solid black; padding: 5px; width: 50px; float: left; margin-bottom: 10px;">MR</div> <div style="border: 1px solid black; padding: 5px; width: 50px; float: left; margin-bottom: 10px;">BGT</div> <div style="clear: both;"></div>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th>SAMPLE ID</th> <th>READING</th> <th>CALC. (mg/kg)</th> </tr> <tr> <td>Spill Comp</td> <td>ND</td> <td></td> </tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td></tr> </table> <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2">PID RESULTS</th> </tr> <tr> <th>SAMPLE ID</th> <th>RESULTS (mg/kg)</th> </tr> <tr> <td>Spill Comp</td> <td>26.7</td> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table>	SAMPLE ID	READING	CALC. (mg/kg)	Spill Comp	ND																													PID RESULTS		SAMPLE ID	RESULTS (mg/kg)	Spill Comp	26.7																			
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SAMPLE ID	RESULTS (mg/kg)																																																										
Spill Comp	26.7																																																										

#### LAB SAMPLES

SAMPLE ID	ANALYSIS	RESULTS
	BENZENE	
	BTEX	
	GRO & DRO	
	CHLORIDES	

#### NOTES:

Spice w/ Shelly & Co  
 Since well is P/A and closure standard is 5000 ppm  
 No samples needed in lab

WORKORDER #

WHO ORDERED



CONTINUOUS CALIBRATION  
EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS

Cal. Date: 16-Feb-11

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	201
	200	
	500	
	1000	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Analyst

Scott Gonzales

Print Name

Review

Robyn Jones

Print Name

2/22/2011

Date

2/22/2011

Date

Client: COPELocation No: 3004520168C.O.C. No: 11268

## FIELD REPORT: SPILL CLOSURE VERIFICATION

PAGE NO: 2 OF 2LOCATION: NAME: Nickson WELL #: 13 PM  
QUAD/UNIT: SEC: 26 TWP: 26 RRG: 8W PM: 13 CNTY: RA ST: NM  
QTR/FOOTAGE: Sw 1/4 & Sw 1/4 CONTRACTOR: XDATE STARTED: 2-16-11DATE FINISHED: 3-1-11ENVIRONMENTAL  
SPECIALIST: PewéEXCAVATION APPROX: X FT. X FT. X FT. DEEP CUBIC YARDAGE: X  
DISPOSAL FACILITY: X REMEDIATION METHOD: XLAND USE: X LEASE: SFO 78431 LAND OWNER: RedCAUSE OF RELEASE: Historical (BGT) MATERIAL RELEASED: XSPILL LOCATED APPROXIMATELY: 108'-115' FT. 170°-175° FROM WellheadDEPTH TO GROUNDWATER: >100 NEAREST WATER SOURCE: X NEAREST SURFACE WATER: >1000NMOCD RANKING SCORE: 0 NMOCD TPH CLOSURE STD: 5000 PPM

## SOIL AND EXCAVATION DESCRIPTION

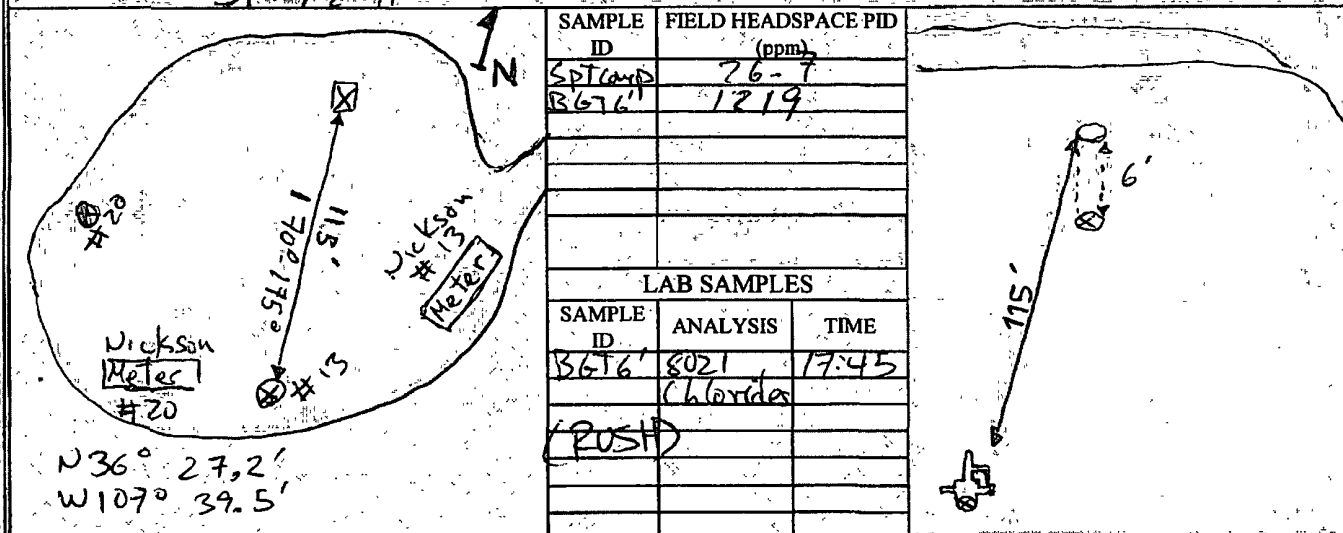
↑ 5.5' red compressed soil (almost purple)  
Date 3-1-11 Sample gray soil + Notes @ the other side of the sheet

SAMPLE DESCRIPTION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	mL FREON	DILUTION	READING	CALC. ppm
<u>2-16-11</u>	<u>7:45</u>	<u>200 STD</u>					<u>201</u>	
	<u>10:00</u>	<u>SPT camp</u>		<u>5</u>	<u>20</u>	<u>x4</u>	<u>165</u>	<u>660</u>
<u>3-1-11</u>	<u>16:40</u>	<u>200 STD</u>		<u>1</u>	<u>1</u>	<u>1</u>	<u>200</u>	<u>200</u>
	<u>16:15</u>	<u>BGT 6'</u>					<u>244</u>	<u>976</u>

## SPILL PERIMETER

3/1/2011OVM  
RESULTS

## SPILL PROFILE

TRAVEL NOTES: CALLLED OUT:

ONSITE:



CONTINUOUS CALIBRATION  
EPA METHOD 418.1  
TOTAL PETROLEUM  
HYDROCARBONS

Cal. Date: 1-Mar-11

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	200
	200	
	500	
	1000	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Analyst

*Rene Garcia*

Date

3/28/2011

Rene Garcia

Print Name

Review

*Robyn Jones*

Date

3/28/2011

Robyn Jones, EIT

Print Name



**EPA METHOD 8021  
AROMATIC VOLATILE ORGANICS**

Client:	N/A	Project #:	N/A
Sample ID:	0302BBLK QA/QC	Date Reported:	03-02-11
Laboratory Number:	57422	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	03-02-11
Condition:	N/A	Analysis:	BTEX
		Dilution:	10

Calibration and Detection Limits (ug/L)	I-Cal RF	C-Cal RF	%Diff	Blank Conc	Detect Limit
		Accept: Range 0 - 15%			
Benzene	1.3363E+005	1.3390E+005	0.2%	ND	0.1
Toluene	1.4686E+005	1.4716E+005	0.2%	ND	0.1
Ethylbenzene	1.2681E+005	1.2706E+005	0.2%	ND	0.1
p,m-Xylene	2.8532E+005	2.8589E+005	0.2%	ND	0.1
o-Xylene	1.1798E+005	1.1821E+005	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff	Accept Range	Detect: Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	ND	ND	0.0%	0 - 30%	1.0
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.0
p,m-Xylene	ND	ND	0.0%	0 - 30%	1.2
o-Xylene	1.5	1.6	6.7%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	500	517	103%	39 - 150
Toluene	ND	500	520	104%	46 - 148
Ethylbenzene	ND	500	515	103%	32 - 160
p,m-Xylene	ND	1000	1,030	103%	46 - 148
o-Xylene	1.5	500	518	103%	46 - 148

ND - Parameter not detected at the stated detection limit.

Dilution: Spike and spiked sample concentration represent a dilution proportional to sample dilution.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.  
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photolization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

**Comments: QA/QC for Samples 57421-57423, 57432, 57440-57441**

Analyst

Review

## 11268

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