

JUL 17 2014

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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

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Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: ConocoPhillips Corporation	Contact: Donna Thompson
Address: 3300 N Ave A, Bldg 6, Midland, TX 79705	Telephone No.: 432-631-0276
Facility Name: Red Hills West State 16-1H	Facility Type: Well Location
Surface Owner: State of New Mexico	Mineral Owner: State of New Mexico
API No.: 30-025-40414	

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	16	26S	32E	180	North	690	WEST	LEA

Latitude 32° 2.978'N Longitude 103° 41.188'W

NATURE OF RELEASE

Type of Release: Oil and Produced water	Volume of Release: 32	Volume Recovered: 31
Source of Release: Open Top Frac Tank	Date and Hour of Occurrence: 8/1/13 @ 0630 HRS (MDT)	Date and Hour of Discovery: 8/1/13 @ 0645 HRS (MDT)
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? GEOFFREY LEKING	
By Whom? Lakin Aaron, Production Specialist.	Date and Hour: 8/1/13 06:47	
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.* On August 1, 2013 at @ 0645 hrs (MST) on the State 16-1H Well Pad located approximately 23 miles west of Jal, NM; a spill of produced water and oil occurred when the 16-1H well unloaded into an open top tank and overflowed onto location. The well had been loaded up for several days with no flow and was routed to an open top tank on location to reduce back pressure on the well. The location was being monitored routinely (every 30 to 60 min) for flow and had shown no sign of unloading for 3 days. At 0500 the MSO left the 16-1H and went to other facilities in the field to restart compressors following a Nuevo shut down. The restart process took longer than expected and when the MSO returned to the 16-5 at 0645, the well had started unloading and was overflowing the open top tank. MSO immediately controlled the release and contacted supervision. Approximately 32-bbl of fluid was released (17 oil and 15 produced water) with 31-bbl recovered (17 oil and 14 produced water).

Describe Area Affected and Cleanup Action Taken.*

The release flow path was ~10,000-ft². 360-yd³ of TPH and chloride contaminated soil excavated and disposed of. Remaining excavated to below 1000-ppm chloride, stockpiled and blended with clean caliche to achieve average 1300-ppm chloride. Blended material was used to backfill excavated area(s).

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>Donna Thompson</i>	OIL CONSERVATION DIVISION	
Printed Name: Donna Thompson	Approved by Environmental Specialist:	
Title: HES Lead	Approval Date: 7-12-14	Expiration Date: _____
E-mail Address: Donna.K.Thompson@conocophillips.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 07/03/2014 Phone: 432-631-0276	7-14-3187	

* Attach Additional Sheets If Necessary

09-22 217817
170 6419 836835
PT 1719 837109

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ConocoPhillips

RED HILLS 16-1H

C141 CLOSURE REPORT

API 30-025-40414

UL-D (NW¼ OF THE NW¼) OF SECTION 16 T26S R32E

LATITUDE: 32° 2.978'N LONGITUDE: 103° 41.188'W

~29.3 MILES WSW (BEARING 261.5°) OF JAL

LEA COUNTY, NEW MEXICO

07/03/14

PREPARED FOR CONOCOPHILLIPS CORPORATION BY:



726 E. Michigan Blvd Suite 330, PO Box 968

Hobbs, New Mexico 88241

Telephone: (575) 393-4653; Fax: (575) 393-4662

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1.0 Project Summary

Release Site Name: Red Hills 16-1H
Operating Company: ConocoPhillips Corporation
Company Representative: Donna Thompson, Phone: 432-631-0276
Address: 3300 N Ave A, Bldg 6, Midland, TX 79705
Email: Donna.K.Thompson@conocophillips.com
Remediation Company: Hydrotech Services, Hobbs, NM

SITE SPECIFIC DATA:

Legal Description: Lea County, New Mexico UL-M Section 16 T26S R32E
General Location: ~29.3 Miles WSW (Bearing 261.5°) of Jal.
Latitude: 32° 2.978'N Longitude: 103° 41.188'W Elevation: 3200-ft amsl
Land Ownership: Public; State of New Mexico
Ground Water Depth: >220-ft bgs
Water Wells within 1000-ft: None Surface Water within 1000-ft: None

RELEASE SPECIFIC DATA:

Date and Time of Release(s): 08/01/13 6:30 AM
Material Released: Produced Water
Volume Released: **32-bbl (17 oil; 15 PW) Volume Recovered: 31-bbl**
Cause of Release: Well unloaded into surface tank, then overflowed
Release Affected Area: >10,000-ft²
Depth of Contamination: 5.5-ft bgs maximum
NMOCD Site Ranking: 0 (ground water >100-ft bgs)
Action Levels: TPH: 5000-ppm Benzene: 10-ppm BTEX: 50-ppm

REMEDIATION SUMMARY:

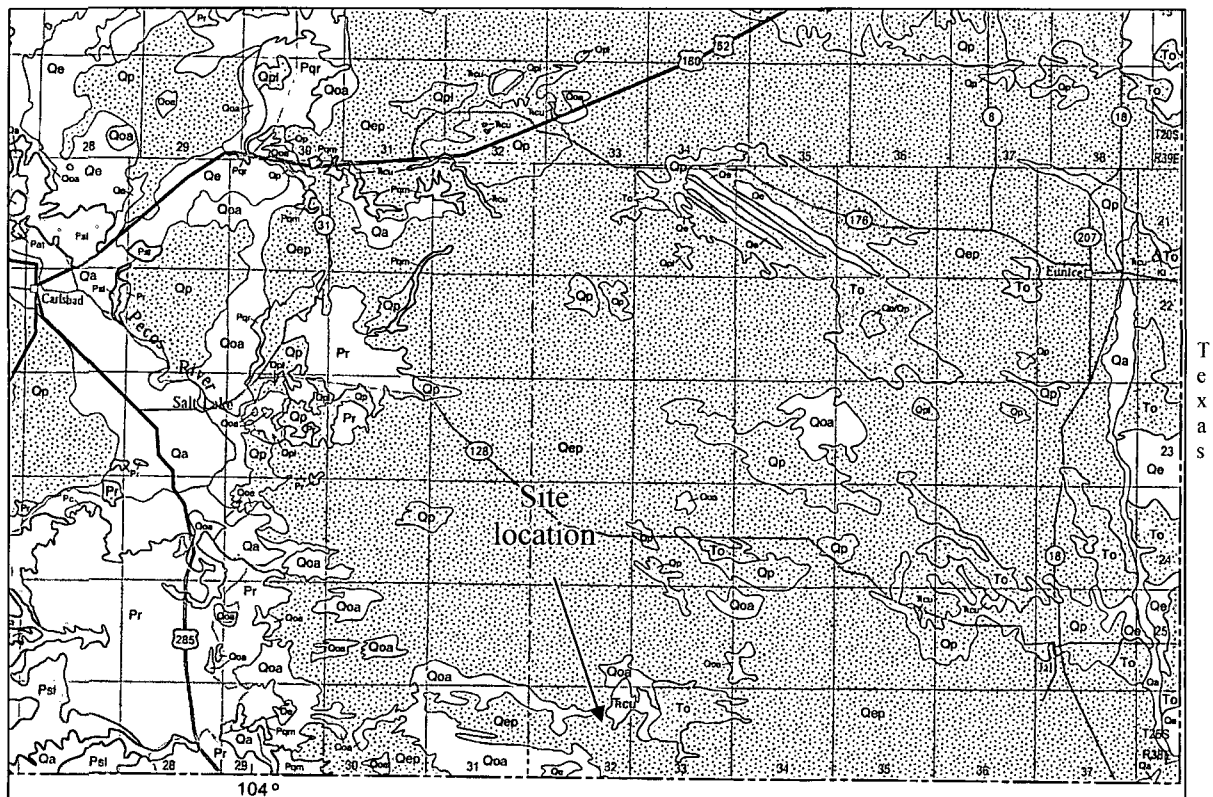
Remediation of the release affected area consisted of the excavation and disposal of 360-yd³ (expanded) of TPH/chloride contaminated soil from the release affected area. Disposal was at CRI. Chloride contaminated soil that remained in the contaminated area was excavated and blended with clean soil to achieve chloride concentrations <1500-ppm. The excavation was backfilled with the blended soil. Remediation of the release site was completed on June 6, 2014.

2.0 Detailed Site Description

2.1 Geological Description

The release site is located 29-miles WSW (261.5°) of Jal, NM. *The United States Geological Survey (USGS) Ground-Water Report 6, "Geology and Ground-Water Conditions in Southern Lea County, New Mexico," A. Nicholson and A. Clebsch, 1961,* describes the near surface geology of southern Lea County as "an intergrade of the Quaternary Alluvium (QA) sediments, i.e., fine to medium sand, with the mostly eroded Cenozoic Ogallala (CO) formation. Typically, the QA and CO formations in the area are capped by a thick interbed of caliche and generally overlain by sandy soil."

The USGS classifies the release site geological unit as "Qep", meaning Quaternary Eolian and piedmont deposits (Holocene to middle Pleistocene)— Interlayered eolian (wind blown) sands and piedmont-slope deposits along the eastern flank of the Pecos River valley, primarily between Roswell and Carlsbad typically capped by thin eolian deposits.



2.2 Ecological Description

The area is typical of the Upper Chihuahuan Desert Biome consisting primarily of hummocky sand hills covered with Harvard Shin Oak (*Quercus harvardi*) interspersed with Honey Mesquite (*Prosopis glandulosa*) along with typical desert grasses, flowering annuals and flowering perennials. Mammals represented, include Orrd's and Merriam's Kangaroo Rat, Deer Mouse, White Throated Wood Rat, Cottontail Rabbit, Black Tailed Jackrabbit, Mule Deer, Bobcat, Red Fox and Coyote. Reptiles, Amphibians, and Birds are numerous

and typical of the area. A survey of Listed, Threatened, or Endangered species was not conducted.

2.3 Area Ground Water

Based on the Chevron-Texaco contour map (*Plate 4 of Attachments*), depth to ground water (if present) is indicated to be greater than 225-ft below ground surface (bgs).

2.4 Area Water Wells

There are no recorded or observed water wells within 1000 horizontal feet of the site.

2.5 Area Surface Water Features

No permanent surface water bodies or seasonal flow channels exist within 1000 horizontal feet of the site.

3.0 Contaminant and Size of Area

The primary Contaminant of Concern (COC) was total chlorides resulting from the produced water release at this location. Hydrocarbon contamination was limited to the top 1-ft of the release in the immediate area of the Point of Release (POR). The areal extent of the excavated release was ~10,000-ft².

4.0 NMOCD Site Ranking

Contaminant delineation and site evaluation work done at this site indicate that the chemical parameters of the soil and the physical parameters of the ground water were characterized consistent with the characterization and remediation/abatement goals and objectives set forth in the following New Mexico Oil Conservation Division (NMOCD) publications:

- *Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993)*
- *Unlined Surface Impoundment Closure Guidelines (February 1993)*

Acceptable thresholds for contaminants/constituents of concern (CoCs), i.e., TPH^{8015m}, Benzene, and the mass sum of Benzene, Toluene, Ethyl Benzene, and total Xylenes (BTEx⁸²⁶⁰), was determined based on the NMOCD Ranking Criteria as follows:

- *Depth to Ground water, i.e., distance from the lower most acceptable concentration to the ground water.*
- *Wellhead Protection Area, i.e., distance from fresh water supply wells.*
- *Distance to Surface Water Body, i.e., horizontal distance to all down gradient surface water bodies.*

Based on the proximity of the site to area water wells, surface water bodies, and depth to ground water from the lower most contamination, the NMOCD ranking score for the site is 0 points with the soil remedial goals highlighted in the Site Ranking Table on the following page.

SITE RANKING TABLE

1. GROUND WATER	2. WELLHEAD PROTECTION	3. DISTANCE TO SURFACE WATER	
DEPTH TO GW <50 FEET: 20 POINTS	IF <1000' FROM WATER SOURCE, OR; <200' FROM PRIVATE DOMESTIC WATER SOURCE: 20 POINTS	<200 HORIZONTAL FEET: 20 POINTS	
DEPTH TO GW 50 TO 99 FEET: 10 POINTS		200-1000 HORIZONTAL FEET: 10 POINTS	
DEPTH TO GW >100 FEET: 0 POINTS	IF >1000' FROM WATER SOURCE, OR; >200' FROM PRIVATE DOMESTIC WATER SOURCE: 0 POINTS	>1000 HORIZONTAL FEET: 0 POINTS	
GROUND WATER SCORE = 0	WELLHEAD PROTECTION SCORE= 0	SURFACE WATER SCORE= 0	
SITE RANK (1+2+3) = 20 + 0 + 0 = 20 POINTS			
TOTAL SITE RANKING SCORE AND ACCEPTABLE REMEDIAL GOAL CONCENTRATIONS			
PARAMETER	20+	10	0
BENZENE	10 PPM	10 PPM	10 PPM
BTEX	50 PPM	50 PPM	50 PPM
TPH	100 PPM	1000 PPM	5000 PPM

5.0 Remediation Process

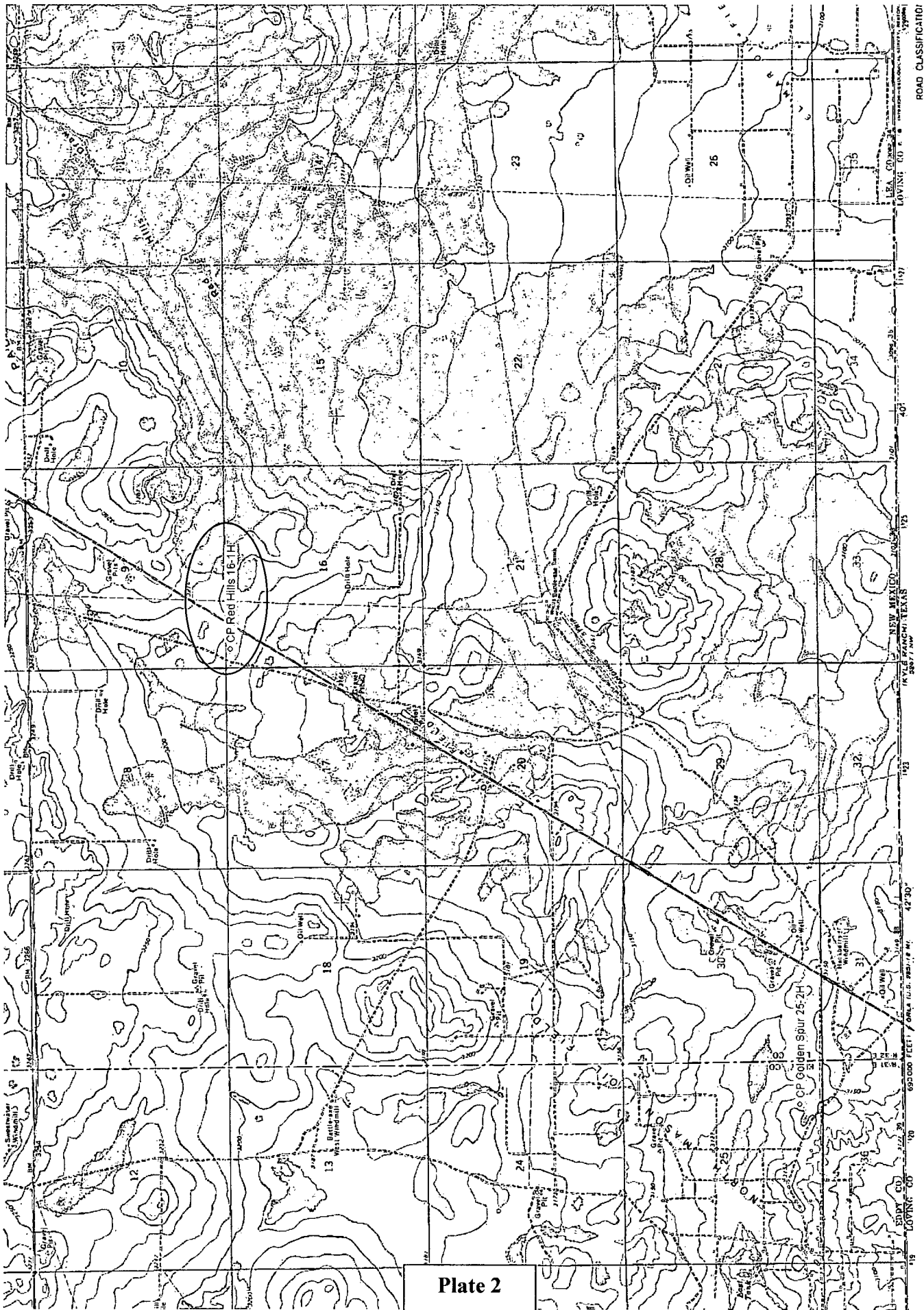
Remediation of the release affected area consisted of the excavation and disposal of 360-yd³ (expanded) of TPH and/or high chloride contaminated soil based on the initial sample results from the April 2 sampling. TPH contamination was limited to the area along the north side of the pad and was eliminated from concern by disposing of it. The remaining chloride contaminated soil was excavated down to concentrations <1000-ppm Cl² (determined by field analyses utilizing Hach strips). The chloride contaminated soil was stockpiled in a clear area to be blended with clean caliche. 260-yd³ of clean caliche was brought from nearby locations that were being reduced in size, and additional clean material was obtained from the east side of the Red Hills location. Two piles were blended, resulting in chloride concentrations of 1470—ppm and 1190-ppm (1330-ppm average). This blended material was utilized to backfill all excavated areas of the location. Chloride concentrations <1500-ppm will pose no risk to ground water >220-ft bgs, or non-existent. Remediation of the release site was completed on June 6, 2014.

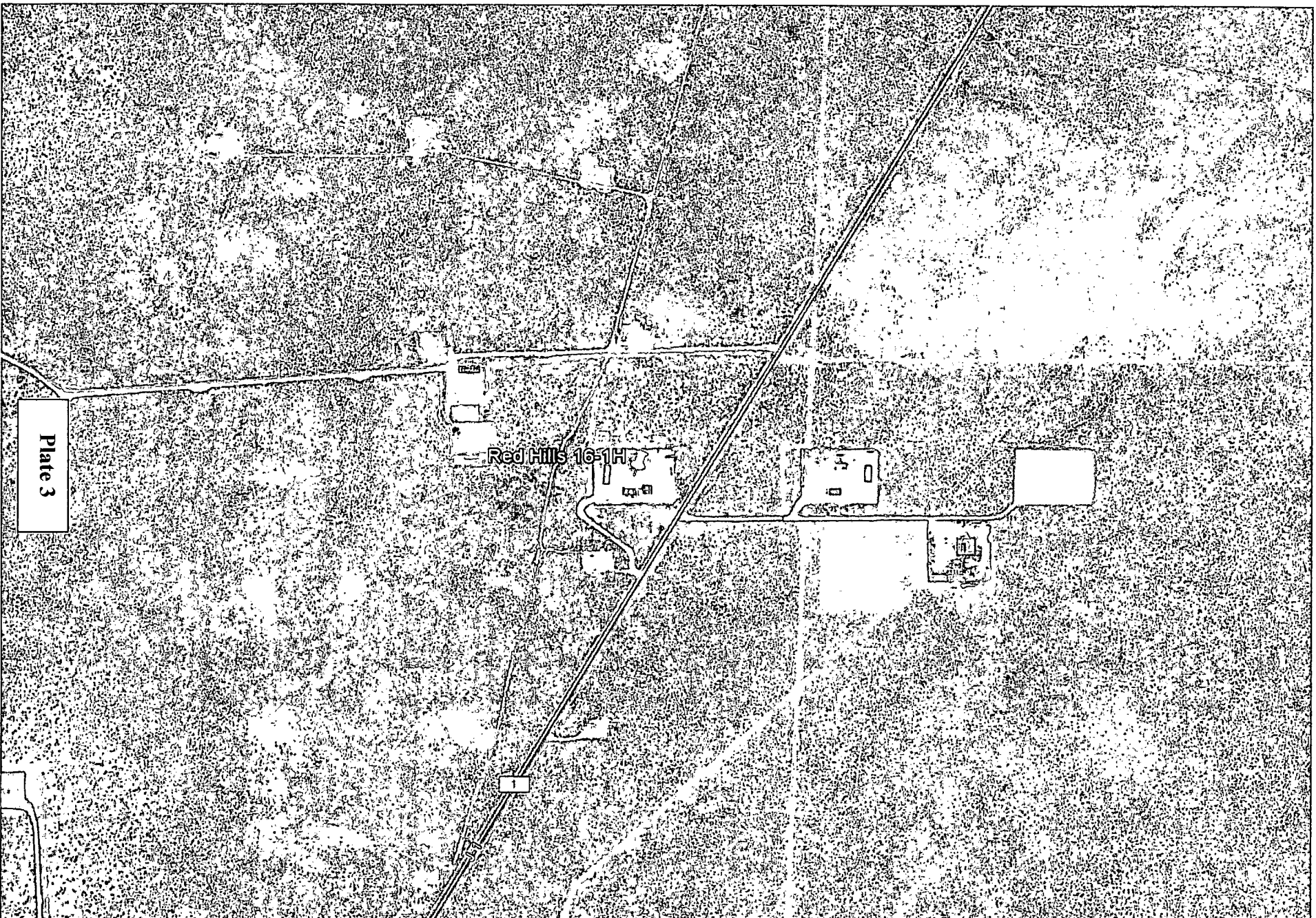
Based on the contents and data contained herein, ConocoPhillips Corporation requests that NMOCD require “no further action” as regards the soil contamination resulting from the August 1, 2013 release of produced water at this location.

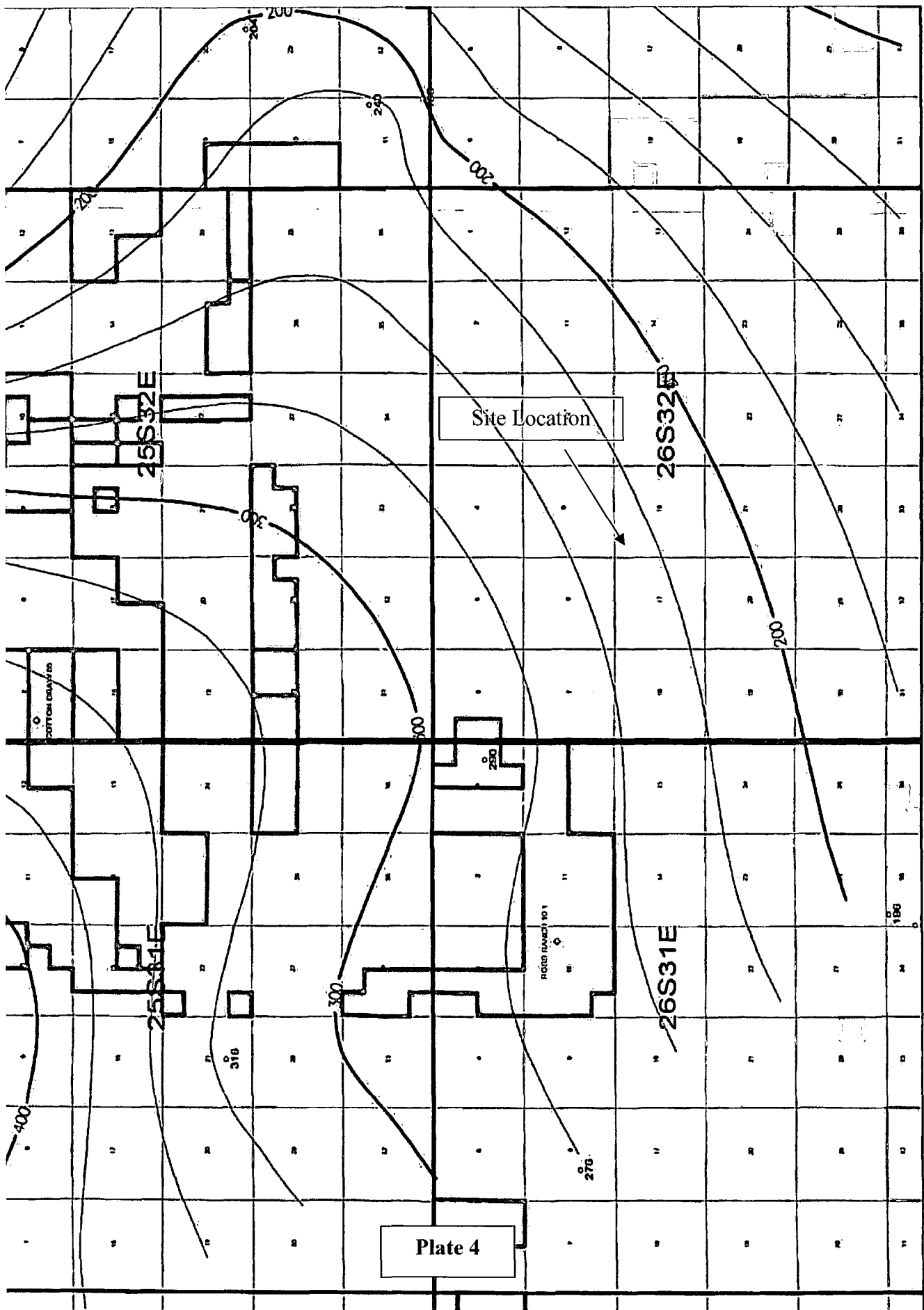
ATTACHMENTS

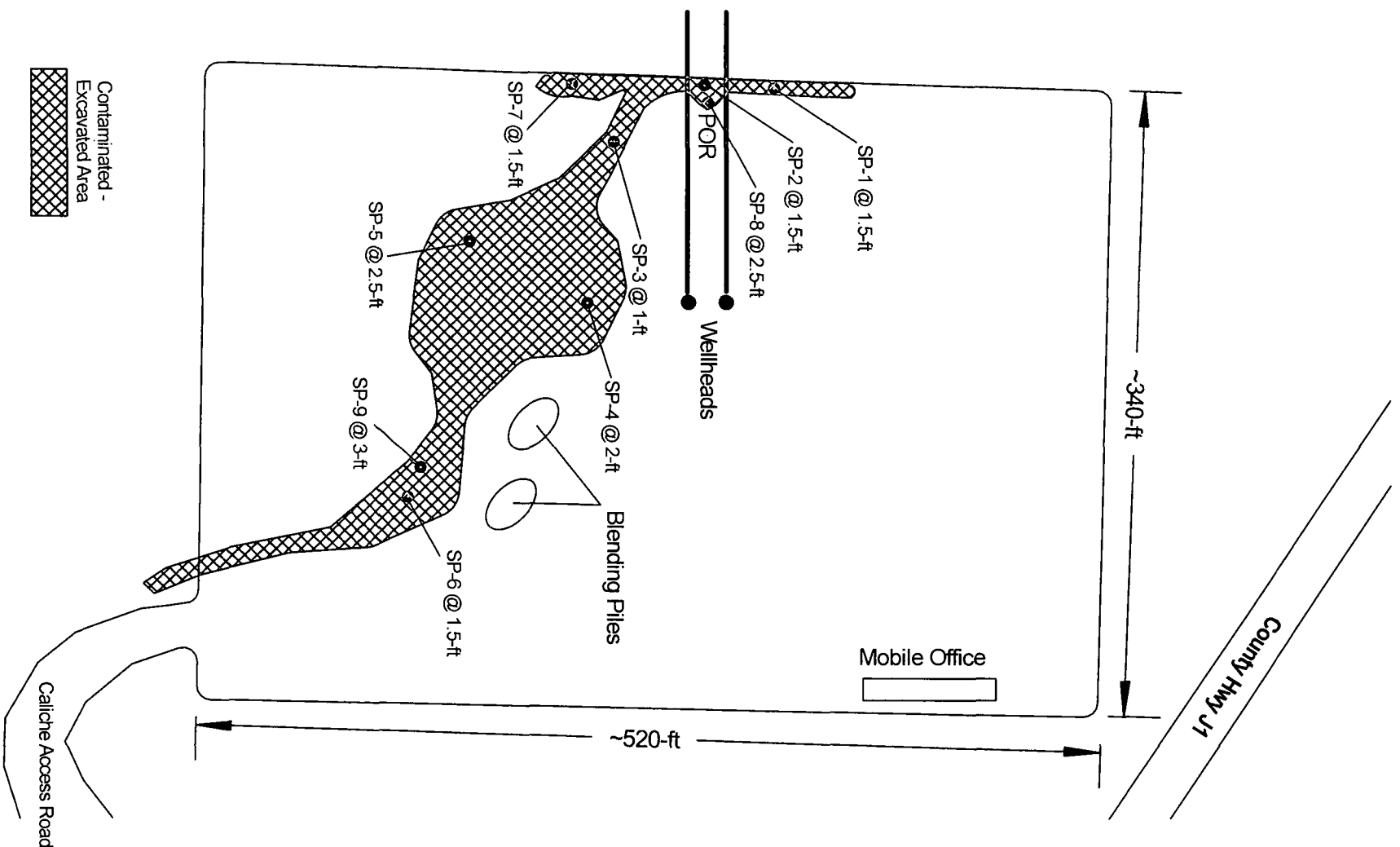
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<p>Plate 5 Site Drawing w/ Sample Points ConocoPhillips Corporation Red Hills 16-1H</p>	<p>Lea County, New Mexico 32° 2.978'N 103° 41.188'W Elevation: ~3200-ft amsl</p>	<p>Drawing by: John Good June - 2014</p> <p>Rev: 1</p> <p>SCALE: 0 Feet 150</p>	
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Laboratory Analyses Summary Table
ConocoPhillips - Midland, TX
Project Name: Red Hills 16-1H (Aug-2013 Release)

Analysis Requested	Lab ID:	482550-001	482550-002	482550-003	482550-004	482550-005
	Field ID:	1	2	3	4	5
	Depth:	1-inch	6-inch	1-inch	6-inch	5-inch
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	2-Apr-14	2-Apr-14	2-Apr-14	2-Apr-14	2-Apr-14
Inorganic Ions by EPA 300/301 SUB: TX104704215	Extracted:	3-Apr-14	3-Apr-14	3-Apr-14	3-Apr-14	3-Apr-14
	Analyzed:	3-Apr-14	3-Apr-14	3-Apr-14	3-Apr-14	3-Apr-14
	Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Chloride		314	132	22000	2230	58
Percent Moisture	Extracted:					
	Analyzed:	3-Apr-14	3-Apr-14	3-Apr-14	3-Apr-14	3-Apr-14
	Units:	%	%	%	%	%
Percent Moisture		2.04	18.8	0	6.01	2.71
TPH by Texas 1005	Extracted:	2-Apr-14	2-Apr-14			
	Analyzed:	3-Apr-14	3-Apr-14			
	Units:	mg/kg	mg/kg			
C6-C12 Gasoline Range Hydrocarbons		ND	ND			
C12-C28 Diesel Range Hydrocarbons		5590	833			
C28-C35 Oil Range Hydrocarbons		558	96			
Total TPH 1005		6148	929			

Analysis Requested	Lab ID:	485704-001	485704-002	485704-003	485704-004	485704-005
	Field ID:	SP-1	SP-2	SP-3	SP-4	SP-5
	Depth:	1.5-ft	1.5-ft	1-ft	2-ft	5.5-ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	16-May-14	16-May-14	16-May-14	16-May-14	16-May-14
Benzene/BTEX by EPA 8021B	Extracted:	28-May-14	28-May-14			
	Analyzed:	28-May-14	28-May-14			
	Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Benzene		ND	ND			
Total BTEX		ND	ND			
Inorganic Ions by EPA 300/301 SUB: TX104704215	Extracted:	22-May-14	22-May-14	22-May-14	22-May-14	22-May-14
	Analyzed:	22-May-14	22-May-14	22-May-14	22-May-14	23-May-14
	Units:	mg/kg	mg/kg	mg/kg	mg/kg	
Chloride		410	737	254	1020	9
Percent Moisture	Extracted:					
	Analyzed:	21-May-14	21-May-14	21-May-14	21-May-14	21-May-14
	Units:	%	%	%	%	%
Percent Moisture		ND	8.59	ND	1.5	1.13
TPH by Texas 1005	Extracted:	27-May-14	27-May-14			
	Analyzed:	27-May-14	27-May-14			
	Units:	mg/kg	mg/kg			
C6-C12 Gasoline Range Hydrocarbons		ND	ND			
C12-C28 Diesel Range Hydrocarbons		134	ND			
C28-C35 Oil Range Hydrocarbons		ND	ND			
Total TPH 1005		134	0			

Analysis Requested	Lab ID:	485704-006	485704-007	485704-008	485704-009	486076-001-002
	Field ID:	SP-6	SP-7	SP-8	SP-9	BP1/BP2
	Depth:	1.5-ft	1.5-ft	2.5-ft	3-ft	Blended Backfill
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	16-May-14	16-May-14	16-May-14	16-May-14	22-May-14
Benzene/BTEX by EPA 8021B	Extracted:		28-May-14			
	Analyzed:		28-May-14			
	Units:		mg/kg			
Benzene			ND			
Total BTEX			ND			
Inorganic Ions by EPA 300/301 SUB: TX104704215	Extracted:	22-May-14	22-May-14	22-May-14	22-May-14	30-May-14
	Analyzed:	23-May-14	23-May-14	23-May-14	23-May-14	31-May-14
	Units:	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
Chloride		1380	239	399	477	1470/1190
Percent Moisture	Extracted:					
	Analyzed:	21-May-14	21-May-14	21-May-14	21-May-14	27-May-14
	Units:	%	%	%	%	%
Percent Moisture		ND	7.28	ND	ND	6.0/3.0
TPH by Texas 1005	Extracted:		28-May-14			
	Analyzed:		28-May-14			
	Units:		mg/kg			



Certificate of Analysis Summary 482550

Conoco Phillips Goldsmith, Goldsmith, TX

Project Name: Red Hill State 16-14



Project Id:
Contact: Bryan Clay
Project Location: NM

Date Received in Lab: Wed Apr-02-14 05:00 pm

Report Date: 03-APR-14

Project Manager: Kelsey Brooks

Analysis Requested	Lab Id:	482550-001	482550-002	482550-003	482550-004	482550-005	
	Field Id:	1	2	3	4	5	
	Depth:	1 in	6 in	1 in	6 in	5 in	
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	
	Sampled:	Apr-02-14 09:05	Apr-02-14 09:10	Apr-02-14 09:15	Apr-02-14 09:20	Apr-02-14 09:25	
Inorganic Anions by EPA 300/300.1	Extracted:	Apr-03-14 10:00	Apr-03-14 10:00	Apr-03-14 10:00	Apr-03-14 10:00	Apr-03-14 10:00	
	Analyzed:	Apr-03-14 11:15	Apr-03-14 12:00	Apr-03-14 12:23	Apr-03-14 12:46	Apr-03-14 13:08	
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	
Chloride		314 10.2	132 12.3	22800 1010	2230 106	57.7 10.3	
Percent Moisture	Extracted:	Apr-03-14 11:00	Apr-03-14 11:00	Apr-03-14 11:00	Apr-03-14 11:00	Apr-03-14 11:00	
	Analyzed:	Apr-03-14 11:00	Apr-03-14 11:00	Apr-03-14 11:00	Apr-03-14 11:00	Apr-03-14 11:00	
	Units/RL:	% RL	% RL	% RL	% RL	% RL	
Percent Moisture		2.04 1.00	18.8 1.00	ND 1.00	6.01 1.00	2.71 1.00	
TPH by Texas1005	Extracted:	Apr-02-14 17:00	Apr-02-14 17:00				
	Analyzed:	Apr-03-14 15:26	Apr-03-14 08:49				
	Units/RL:	mg/kg RL	mg/kg RL				
C6-C12 Gasoline Range Hydrocarbons		ND 127	ND 30.7				
C12-C28 Diesel Range Hydrocarbons		5590 127	833 30.7				
C28-C35 Oil Range Hydrocarbons		558 127	95.9 30.7				
Total TPH 1005		6150 127	929 30.7				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Version: 1.06

Kelsey Brooks
Project Manager

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD



- ☐ 4143 Greenbriar Drive, Stafford, TX 77477 281-240-4200

- ☐ 12600 West 420, East, Odessa, TX 79765 432-563-1800
☐ 342 Cantwell, Corpus Christi, TX 78403 361-8840371

Serial #: 307512 Page of

Company-City								Phone		Lab Only:														
Project Name-Location								<input type="checkbox"/> Previously done at XENCO		Project ID		TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d; Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.												
Prof. State: TX, AL, FL, GA, LA, MS, NC, NJ, PA, SC, TN, UT Other								Proj. Manager (PM)																
E-mail Results to:								<input type="checkbox"/> PM and		Fax No:														
Invoice to: <input type="checkbox"/> Accounting <input type="checkbox"/> Inc. Invoice with Final Report. <input type="checkbox"/> Invoice must have a P.O.																								
Bill to:																								
Quote/Pricing:								P.O. No:		<input type="checkbox"/> Call for P.O.														
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW TRRP																								
QAPP Per-Contract CLP AGCEE NAVY DOE DOD USACE OTHER:																								
Special DLs (GW DW QAPP MDLs RLs See Lab PM Included Call PM)																								
Sampler Name: John Good Signature: [Signature]																								
Sample ID	Sampling Date	Time	Depth (ft/in)	Matrix	Composite Grab	# Containers	Container Size	Container Type	Preservatives	VOCs: Full-List BTEX-MTBE EtOH Oxyg VOHs VOAs	VOC's PP TCL DW Appdx-1 Appdx-2 CALL Other	PAHs SIM	TX-1005 DRO GRO M'EPH MA VPH	SVOCS: Full-List DW BN&AE TCL PP Appux-2 CALL	OC Pesticides PCBs Herbicides OP Pesticides	Metals: RCRA-8 RCRA-4 Pb 13FP-23TAL Appdx 1 Appdx 2	SPLP - TCLP (Metals VOCs SVOCs Pest. Herb. PCBs)	EDB / DBCP	TATASAP: 5h 12h 24h 48h 3d 5d 7d 10d 21d	Addn: PAH above mg/L W, mg/Kg S Highest Hit	Hold Samples (Surcharges will apply and are pre-approved)	Sample Clean-ups are pre-approved as needed	Remarks	
1	4/2/14	9:05	1	S	X	1	4oz	C	C				X											
2	I	9:10	6	I	X	1	I	I	I				X											
3	I	9:15	1	I	X	1	I	I	I															
4	I	9:20	6	I	X	1	I	I	I															
5	I	9:25	5	I	X	1	I	I	I															
6																								
7																								
8																								
9																								
10																								
Relinquished by (Initials and Sign)		Date & Time	Relinquished to (Initials and Sign)		Date & Time		Total Containers per COC:		Cooler Temp:															
1) [Signature]		4/2/14 12:30	2) [Signature] (RC)		4-2-14 12:30		Otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges and Collection Fees are pre-approved if needed.																	
3) [Signature]		4-2-14 2:00	4) [Signature]		4-2-14 11:00																			

Preservatives: Various (V), HCl pH<2 (H), H₂SO₄ pH<2 (S), HNO₃ pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool, <4C) (C), None (NA), See Label (L), Other (O)

Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (40), 1L (1), 500ml (5), Tedlar Bag (B), Various (V), Other _____ Cont. Type: Glass Amt (A), Glass Clear (C), Plastic (P), Various (V)

Matrix: Air (A), Product (P), Solid (S), Water (W), Liquid (L)

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Notice: Signature of this document and relinquishment of these samples constitutes a valid purchase order from client company to Xenco Laboratories and its affiliates, subcontractors and assigns under Xenco's standard terms and conditions of service unless previously negotiated under a fully executed client contract.



Certificate of Analysis Summary 485704

Conoco Phillips-Goldsmith, Goldsmith, TX

Project Name: RED HILLS 16-H



Project Id: 16-H

Contact: Bryan Clay

Project Location: TX

Date Received in Lab: Mon May-19-14 03:40 pm

Report Date: 29 MAY-14

Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	485704-001	485704-002	485704-003	485704-004	485704-005	485704-006
	<i>Field Id:</i>	SP 1	SP 2	SP 3	SP 4	SP 5	SP 6
	<i>Depth:</i>	18 In	18 In	12 In	2 In	5.5 In	1.5 In
	<i>Matrix:</i>	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	<i>Sampled:</i>	May-16-14 08:00	May-16-14 08:30	May-16-14 09:00	May-16-14 09:30	May-16-14 10:00	May-16-14 10:30
BTEX-MTBE by EPA 8021B	<i>Extracted:</i>	May-28-14 07:00	May-28-14 07:00				
	<i>Analyzed:</i>	May-28-14 12:42	May-28-14 12:58				
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				
Benzene		ND 0.00100	ND 0.00109				
Toluene		ND 0.00201	ND 0.00217				
Ethylbenzene		ND 0.00100	ND 0.00109				
m,p-Xylenes		ND 0.00201	ND 0.00217				
o-Xylene		ND 0.00100	ND 0.00109				
MTBE		ND 0.0201	ND 0.0217				
Total Xylenes		ND 0.00100	ND 0.00109				
Total BTEX		ND 0.00100	ND 0.00109				
Inorganic Anions by EPA 300/300.1 SUB: TX104704215	<i>Extracted:</i>	May-22-14 13:00	May-22-14 13:00	May-22-14 13:00	May-22-14 13:00	May-22-14 13:00	May-22-14 13:00
	<i>Analyzed:</i>	May-22-14 22:05	May-22-14 22:27	May-22-14 22:50	May-22-14 23:58	May-23-14 00:21	May-23-14 00:44
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
Chloride		410 20.1	737 43.8	254 20.1	1020 40.6	8.93 2.02	1380 101
Percent Moisture	<i>Extracted:</i>	May-21-14 18:45	May-21-14 18:45	May-21-14 18:45	May-21-14 18:45	May-21-14 18:45	May-21-14 18:45
	<i>Analyzed:</i>	May-21-14 18:45	May-21-14 18:45	May-21-14 18:45	May-21-14 18:45	May-21-14 18:45	May-21-14 18:45
	<i>Units/RL:</i>	% RL	% RL	% RL	% RL	% RL	% RL
Percent Moisture		ND 1.00	8.59 1.00	ND 1.00	1.50 1.00	1.13 1.00	ND 1.00
TPH by Texas1005	<i>Extracted:</i>	May-27-14 14:00	May-27-14 14:00				
	<i>Analyzed:</i>	May-28-14 11:18	May-28-14 12:36				
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL				
C6-C12 Gasoline Range Hydrocarbons		ND 25.1	ND 27.3				
C12-C28 Diesel Range Hydrocarbons		134 25.1	ND 27.3				
C28-C35 Oil Range Hydrocarbons		ND 25.1	ND 27.3				
Total TPH 1005		134 25.1	ND 27.3				

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Kelsey Brooks
Project Manager



Certificate of Analysis Summary 485704

Conoco Phillips-Goldsmith, Goldsmith, TX

Project Name: RED HILLS 16-H



Project Id: 16-H

Contact: Bryan Clay

Project Location: TX

Date Received in Lab: Mon May-19-14 03:40 pm

Report Date: 29-MAY-14

Project Manager: Kelsey Brooks

<i>Analysis Requested</i>	<i>Lab Id:</i>	485704-007	485704-008	485704-009			
	<i>Field Id:</i>	SP 7	SP 8	SP 9			
	<i>Depth:</i>	6 In	2.5 In	3 In			
	<i>Matrix:</i>	SOIL	SOIL	SOIL			
	<i>Sampled:</i>	May-16-14 11:00	May-16-14 11:30	May-16-14 12:00			
BTEX-MTBE by EPA 8021B	<i>Extracted:</i>	May-28-14 07:00					
	<i>Analyzed:</i>	May-28-14 13:15					
	<i>Units/RL:</i>	mg/kg RL					
Benzene		ND 0.00107					
Toluene		ND 0.00215					
Ethylbenzene		ND 0.00107					
m,p-Xylenes		ND 0.00215					
o-Xylene		ND 0.00107					
MTBE		ND 0.0215					
Total Xylenes		ND 0.00107					
Total BTEX		ND 0.00107					
Inorganic Anions by EPA 300/300.1 SUB: TX104704215	<i>Extracted:</i>	May-22-14 13:00	May-22-14 13:00	May-22-14 13:00			
	<i>Analyzed:</i>	May-23-14 01:06	May-23-14 01:29	May-23-14 01:52			
	<i>Units/RL:</i>	mg/kg RL	mg/kg RL	mg/kg RL			
Chloride		239 21.6	399 20.1	477 40.3			
Percent Moisture	<i>Extracted:</i>						
	<i>Analyzed:</i>	May-21-14 18:45	May-21-14 18:45	May-21-14 18:45			
	<i>Units/RL:</i>	% RL	% RL	% RL			
Percent Moisture		7.28 1.00	ND 1.00	ND 1.00			
TPH by Texas1005	<i>Extracted:</i>	May-27-14 14:00					
	<i>Analyzed:</i>	May-28-14 13:01					
	<i>Units/RL:</i>	mg/kg RL					
C6-C12 Gasoline Range Hydrocarbons		ND 26.9					
C12-C28 Diesel Range Hydrocarbons		76.7 26.9					
C28-C35 Oil Range Hydrocarbons		ND 26.9					
Total TPH 1005		76.7 26.9					

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Kelsey Brooks
Project Manager



- ☐ 4141 Greenbriar Drive, Stafford, Tx 77477 281-589-0692
☐ 5332 Blackberry Drive, San Antonio, Tx 78238 210-509-3334
☐ 8701 Harry Hines Blvd., Dallas, Tx 75220 214-902-0500

ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

- ☐ 12800 West I-20 East, Odessa, Tx 79768 432-563-1800
☐ 842 Cantwell, Corpus Christi, Tx 78408 361-884-0371

Serial #: 229188

Page 6/

Company City: Conoco Phillips				Phone: 432-213-3376				Lab Only: 485704																																							
Proj Name-Location: Red Hills 16-H				Project ID: 432-213-3376				TAT: ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d Standard TAT is project specific. It is typically 5-7 Working Days for level II and 10+ Working days for level III and IV data.																																							
Proj State: AL, CO, FL, GA, LA, MS, NC, NJ, NM, OK, PA, SC, TN, TX, UT Other				Proj. Manager (PM): Brandy																																											
e-mail to PM and e-mail to: Conoco Phillips				Fax to:																																											
Invoice to: <input type="checkbox"/> Accounting <input type="checkbox"/> Inc. Invoice with Report <input type="checkbox"/> Invoice must have a P.O. or Bill to: Conoco Phillips																																															
Quote/Pricing: P.O. No: <input type="checkbox"/> Call for P.O.																																															
Reg Program: UST DRY-CLEAN Land-Fill Waste-Disp NPDES DW																																															
OAPP Per-Contract CLP AFCEE NAVY DOE DOD USACE OTHER:																																															
Special DLs (GW DW OAPP MDLs RLs See Lab PM Included Call PM)																																															
LPST No.: <input type="checkbox"/> Dry Basis																																															
Sampler Name: Keylie Martin Signature: Keylie Martin																																															
Sample ID	Sampling Date	Time	Depth in' m	Matrix	Compos	Grab	# Containers	Container Size	Container Type	Preservatives	VOCs	CETEX-MTBE-XOXYG	ETOH VOHS	PAHs	PCMs																																
581	5-16-14	8:00	18"	S	X	1	4	L	O	X	8260 8021 602 624 524 TCLP/SLP ()	8270-SIM 8310	8270-SIM 8310	8270-SIM 8310	8270-SIM 8310																																
582	5-16-14	8:30	18"	S	X	1	4	L	O	X	8260 8021 602 624 524 TCLP/SLP ()	8270-SIM 8310	8270-SIM 8310	8270-SIM 8310	8270-SIM 8310																																
583	5-16-14	9:00	12"	S	X	1	4	L	O		8260 8021 602 624 524 TCLP/SLP ()	8270-SIM 8310	8270-SIM 8310	8270-SIM 8310	8270-SIM 8310																																
584	5-16-14	9:30	2'	S	X	1	4	L	O		8260 8021 602 624 524 TCLP/SLP ()	8270-SIM 8310	8270-SIM 8310	8270-SIM 8310	8270-SIM 8310																																
585	5-16-14	10:00	5.5'	S	X	1	4	L	O		8260 8021 602 624 524 TCLP/SLP ()	8270-SIM 8310	8270-SIM 8310	8270-SIM 8310	8270-SIM 8310																																
586	5-16-14	10:30	1.5'	S	X	1	4	L	O		8260 8021 602 624 524 TCLP/SLP ()	8270-SIM 8310	8270-SIM 8310	8270-SIM 8310	8270-SIM 8310																																
587	5-16-14	11:00	6"	S	X	1	4	L	O	X	8260 8021 602 624 524 TCLP/SLP ()	8270-SIM 8310	8270-SIM 8310	8270-SIM 8310	8270-SIM 8310																																
588	5-16-14	11:30	2.5'	S	X	1	4	L	O		8260 8021 602 624 524 TCLP/SLP ()	8270-SIM 8310	8270-SIM 8310	8270-SIM 8310	8270-SIM 8310																																
589	5-16-14	12:00	3"	S	X	1	4	L	O		8260 8021 602 624 524 TCLP/SLP ()	8270-SIM 8310	8270-SIM 8310	8270-SIM 8310	8270-SIM 8310																																
<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="4">TAT ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d</td> <td colspan="4">Addn: PAH above mg/L W.</td> <td colspan="4">mg/Kg S Highest Hit</td> <td colspan="4">Remarks</td> </tr> <tr> <td colspan="4">Hold Samples (Surcharges will apply and are pre-approved)</td> <td colspan="4">Sample Clean-ups are pre-approved as needed</td> <td colspan="4"></td> <td colspan="4"></td> </tr> </table>																TAT ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d				Addn: PAH above mg/L W.				mg/Kg S Highest Hit				Remarks				Hold Samples (Surcharges will apply and are pre-approved)				Sample Clean-ups are pre-approved as needed											
TAT ASAP 5h 12h 24h 48h 3d 5d 7d 10d 21d				Addn: PAH above mg/L W.				mg/Kg S Highest Hit				Remarks																																			
Hold Samples (Surcharges will apply and are pre-approved)				Sample Clean-ups are pre-approved as needed																																											
Relinquished by (Initials and Sign): Km Keylie Martin				Date & Time: 5-14-14 3:40				Relinquished to (Initials and Sign): Theresa				Date & Time: 5/19/14 1540																																			
Total Containers per COC: 9 Cooler Temp: 9 Upon signing this COC you accept XENCO terms and Conditions unless otherwise agreed on writing. Reports are the Intellectual Property of XENCO until paid. Samples will be held 30 days after final report is e-mailed unless hereby requested. Rush Charges are pre-approved.																																															

Preservatives: Various (V), HCl pH<2 (H), H₂SO₄ pH<2 (S), HNO₃ pH<2 (N), Asbc Acid&NaOH (A), ZnAc&NaOH (Z), (Cool,<4C) (C); None (NA), See Label (L), Other (O)

Cont. Size: 4oz (4), 8oz (8), 32oz (32), 40ml VOA (V), 1L (1), 500ml (5), Tedlar Bag (B), Wipo (W), Other

Cont. Type: Glass Amb (A), Glass Clear (C), Plastic (P), Other (O)

Matrix: Air (A), Product (P), Solid(S), Water (W)

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Certificate of Analysis Summary 486076

Conoco Phillips Goldsmith, Goldsmith, TX

Project Name: Red Hills 16-1H



Project Id:

Contact: Bryan Clay

Project Location: NM

Date Received in Lab: Fri May 23 14:11:02 am

Report Date: 02 JUN 14

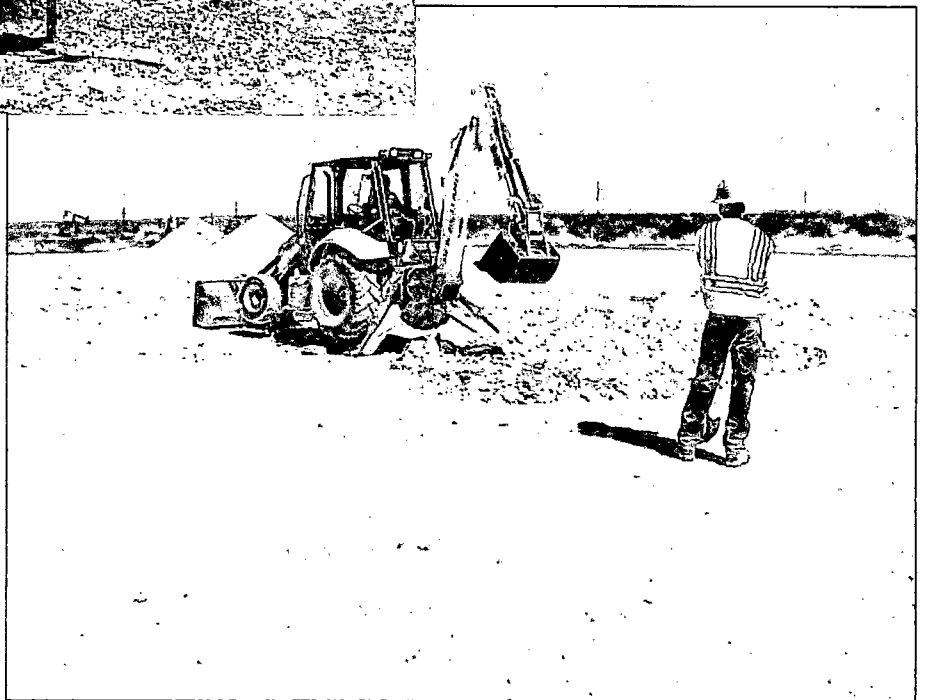
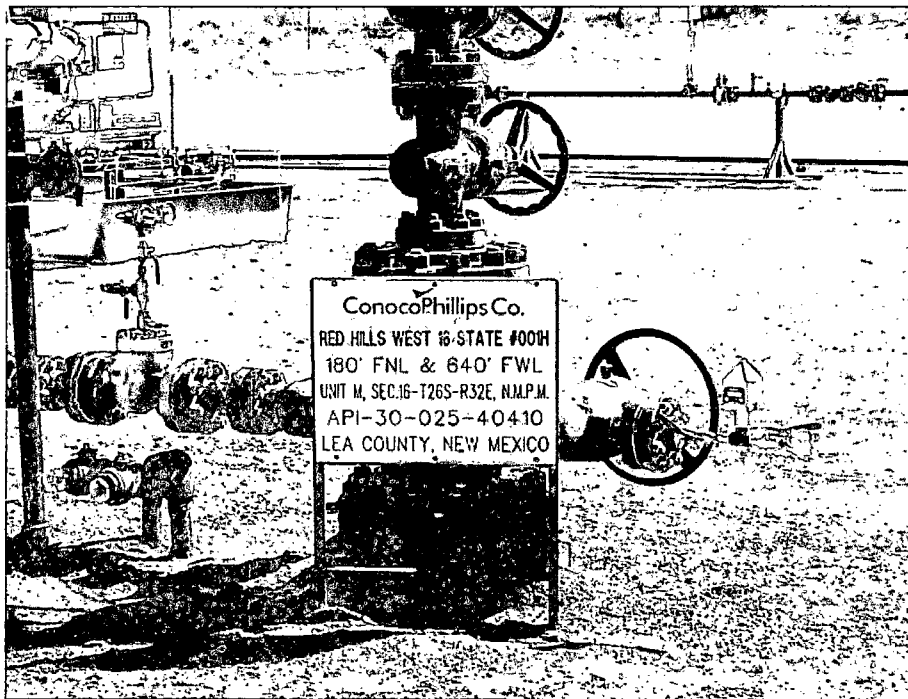
Project Manager: Kelsey Brooks

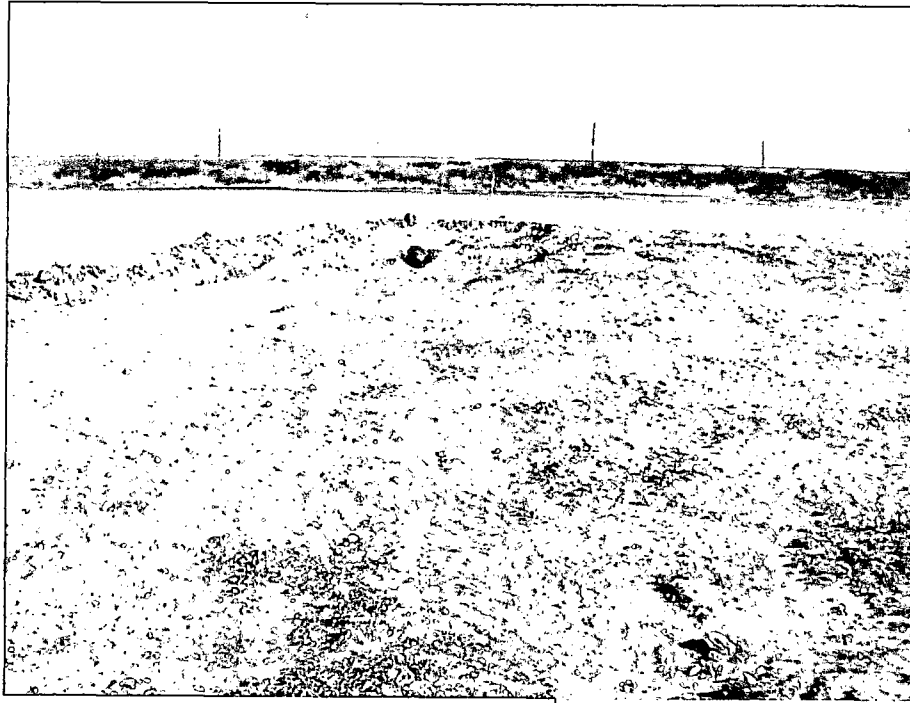
Analysis Requested	Lab Id:	486076-001	486076-002				
	Field Id:	Bp 1	Bp 2				
	Depth:						
	Matrix:	SOIL	SOIL				
	Sampled:	May-22-14 11:37	May-22-14 11:40				
Inorganic Anions by EPA 300/300.1	Extracted:	May-30-14 10:00	May-30-14 10:00				
	Analyzed:	May-31-14 01:53	May-31-14 02:16				
	Units/RL:	mg/kg RL	mg/kg RL				
Chloride		1470 213	1190 103				
Percent Moisture	Extracted:						
	Analyzed:	May-27-14 15:00	May-27-14 15:00				
	Units/RL:	% RL	% RL				
Percent Moisture		6.02 1.00	3.00 1.00				

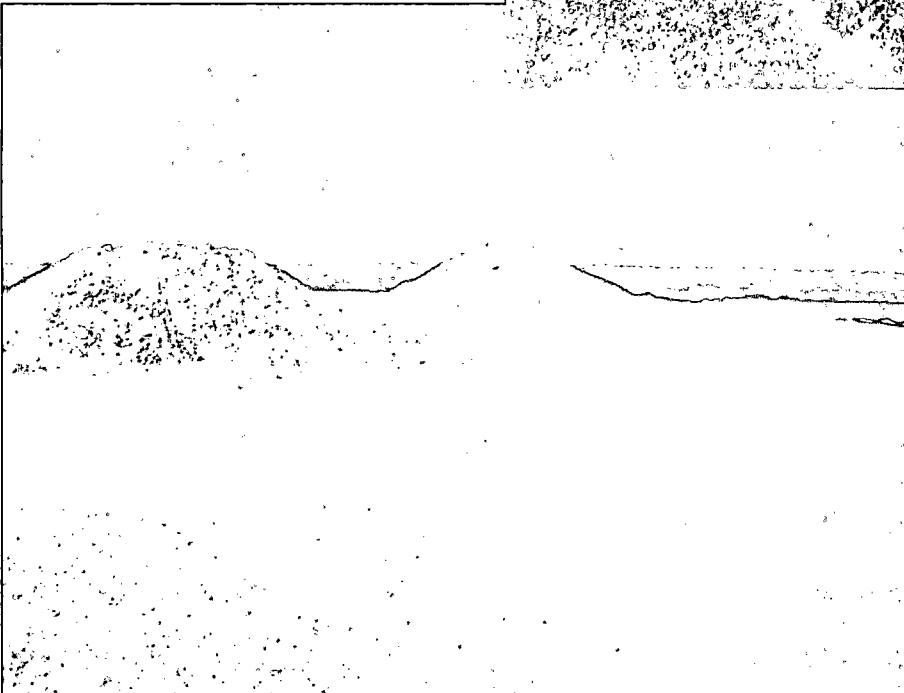
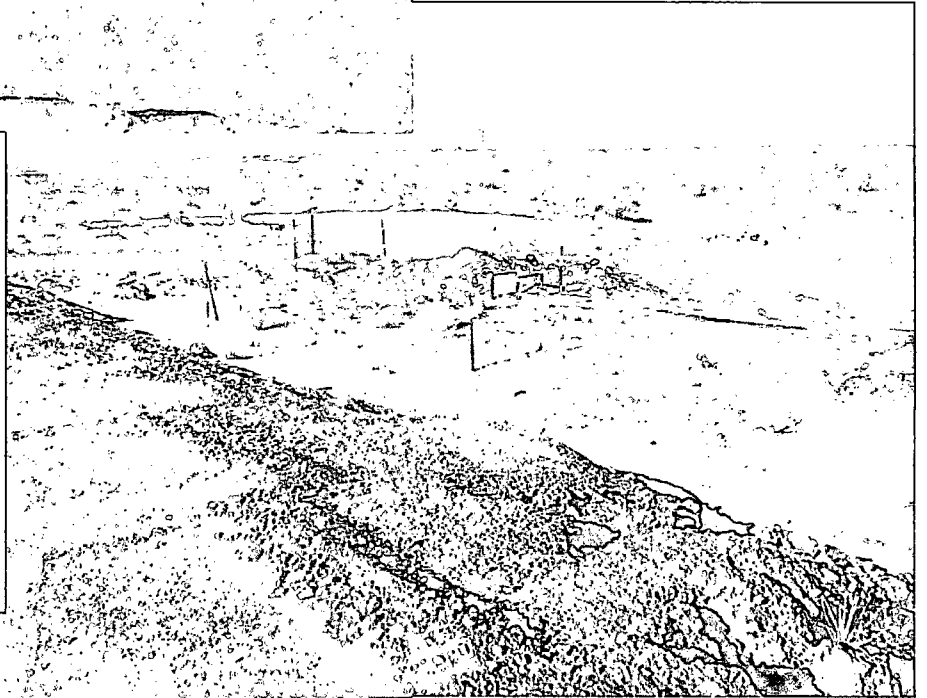
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Kelsey Brooks







District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: ConocoPhillips	Contact: Lakin Aaron
Address: 4001 Penbrook Odessa, Tx 79762	Telephone No.: 432-488-6067
Facility Name: Red Hills West State 16-5	Facility Type: Well Location

Surface Owner: State of New Mexico	Mineral Owner: State of New Mexico	API No.: 30-025-40414
------------------------------------	------------------------------------	-----------------------

LOCATION OF RELEASE

Unit Letter D	Section 16	Township 26S	Range 32E	Feet from the 180	North/South Line North	Feet from the 690	East/West Line WEST	County LEA
------------------	---------------	-----------------	--------------	----------------------	---------------------------	----------------------	------------------------	---------------

Latitude N32.04963300 Longitude W103.68589700

NATURE OF RELEASE

Type of Release: Oil and Produced water	Volume of Release: 32	Volume Recovered: 31
Source of Release: Open Top Frac Tank	Date and Hour of Occurrence: 8/1/13 @ 0630 HRS (MST)	Date and Hour of Discovery: 8/1/13 @ 0645 HRS (MST)
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? GEOFFREY LEKING	
By Whom? Lakin Aaron	Date and Hour: 8/1/13 06:47	
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.*

On August 1, 2013 at @ 0645 hrs (MST) on the State 16-5 Well Pad located approximately 22 miles NW of Orla, TX; a spill of produced water and oil occurred when the 16-5 well unloaded into an open top tank and overflowed onto location. The well had been loaded up for several days with no flow and was routed to an open top tank on location to reduce back pressure on the well. The location was being monitored routinely (every 30 to 60 min) for flow and had shown no sign of unloading for 3 days. At 0500 the MSO left the 16-5 and went to other facilities in the field to restart compressors following a Nuevo shut down. The restart process took longer than expected and when the MSO returned to the 16-5 at 0645, the well had started unloading and was overflowing the open top tank. MSO immediately controlled the release and contacted supervision. Approximately 32 bbls of fluid was released (17 oil and 15 produced water) with 31 bbls recovered (17 oil and 14 produced water).

Describe Area Affected and Cleanup Action Taken.*

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC 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, NMOC 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>Lakin Aaron</i>	OIL CONSERVATION DIVISION	
Printed Name: Lakin Aaron	Approved by Environmental Specialist:	
Title: Production Specialist	Approval Date:	Expiration Date:
E-mail Address: Lakin.R.Aaron@cop.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 08/02/2013 Phone: (432) 488-6067		

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., 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 in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: ConocoPhillips Corporation	Contact: Donna Thompson
Address: 3300 N. Ave A, Bldg 6, Midland, TX 79705	Telephone No.: 432-631-0276
Facility Name: Red Hills West State 16-1H	Facility Type: Well Location

Surface Owner: State of New Mexico	Mineral Owner: State of New Mexico	API No.: 30-025-40414
------------------------------------	------------------------------------	-----------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
M	16	26S	32E	180	North	690	WEST	LEA

Latitude 32° 29' 78" N Longitude 103° 41' 188" W

NATURE OF RELEASE

Type of Release: Oil and Produced water	Volume of Release: 32	Volume Recovered: 31
Source of Release: Open Top Frac Tank	Date and Hour of Occurrence: 8/1/13 @ 0630 HRS (MDT)	Date and Hour of Discovery: 8/1/13 @ 0645 HRS (MDT)
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? GEOFFREY LEKING	
By Whom? Lakin, Aaron, Production Specialist	Date and Hour: 8/1/13 06:47	
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: * On August 1, 2013 at @ 0645 hrs (MST) on the State 16-1H Well Pad located approximately 23 miles west of Jal, NM; a spill of produced water and oil occurred when the 16-1H well unloaded into an open top tank and overflowed onto location. The well had been loaded up for several days with no flow and was routed to an open top tank on location to reduce back pressure on the well. The location was being monitored routinely (every 30 to 60 min) for flow and had shown no sign of unloading for 3 days. At 0500, the MSO left the 16-1H and went to other facilities in the field to restart compressors following a Nuevo shut-down. The restart process took longer than expected and when the MSO returned to the 16-5 at 0645, the well had started unloading and was overflowing the open top tank. MSO immediately controlled the release and contacted supervision. Approximately 32-bbl of fluid was released (17 oil and 15 produced water) with 31-bbl recovered (17 oil and 14 produced water).

Describe Area Affected and Cleanup Action Taken: *

The release flow path was ~10,000-ft² 360-yd³ of TPH and chloride contaminated soil excavated and disposed of. Remaining excavated to below 1000-ppm chloride, stockpiled and blended with clean caliche to achieve average 1300-ppm chloride. Blended material was used to backfill excavated area(s).

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC 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 NMOC 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, NMOC 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: Donna Thompson	Approved by Environmental Specialist:		
Title: HES Lead	Approval Date:	Expiration Date:	
E-mail Address: Donna.K.Thompson@conocophillips.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 07/03/2014 Phone: 432-631-0276			

* Attach Additional Sheets If Necessary

