JUL 17 2014

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. Frist St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aziec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

RECEIVED

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

LOCAT	OPERA'	TOR mna Thompson	·.		al Report	
Address: 3300 N Ave A, Bldg 6, Midland, TX 79705 Facility Name: Red Hills West State 16-1H Surface Owner: State of New Mexico Mineral Own LOCATI	Contact: Do	nna Thompson		☐ Initi	al Report	
Address: 3300 N Ave A, Bldg 6, Midland, TX 79705 Facility Name: Red Hills West State 16-1H Surface Owner: State of New Mexico Mineral Own LOCATI	Telephone l					
Facility Name: Red Hills West State 16-1H  Surface Owner: State of New Mexico Mineral Own  LOCATI		VO 447-041-11	<b>1.77</b> /C			
Surface Owner: State of New Mexico Mineral Own LOCAT	Tacinty 1 yr					
LOCAT			711			
· · · · · · · · · · · · · · · · · · ·	ier: State of Nev	v Mexico		APINO	.:30-025-40	)414
and the second s	ION OF REI	LEASE			_	
	orth/South Line orth	Feet from the 690	East/W WEST	lest Line	County · LEA	
, Latitude <u>32° 2.9</u> 7	78'N Longitude	103° 41.188'W	<u>.</u>			
NATUI	RE OF RELI	EASE			•	
Type of Release: Oil and Produced water	Volume of	Release: 32			ecovered: 31	
Source of Release: Open Top Frac Tank	Date and H Occurrence (MDT)	lour of ::8/1/13 @ 0630 1			Hour of Disc 0645 HRS (1	
Was Immediate Notice Given?   ☑ Yes ☐ No ☐ Not Require	If YES, To	Whom? EY LEKING				
By Whom? Lakin Aaron, Production Specialist.		lour: 8/1/13 05:47				· · · · · · · · · · · · · · · · · · ·
Was a Watercourse Reached? ☐ Yes ☑ No	If YES, Vo	lume Impacting t	he Water	rcourse.		
If a Watercourse was Impacted, Describe Fully.*						
Describe Cause of Problem and Remedial Action Taken.* On Augur approximately 23 miles west of Jal, NM; a spill of produced wa and overflowed onto location. The well had been loaded up for reduce back pressure on the well. The location was being more unloading for 3 days. At 0500 the MSO left the 16-1H and were shut down. The restart process took longer than expected and vand was overflowing the open top tank. MSO immediately con was released (17 oil and 15 produced water) with 31-bbl recover Describe Area Affected and Cleanup Action Taken.*  The release flow path was ~10,000-fi2. 360-yd³ of TPH and chloride coppin chloride, stockpiled and blended with clean caliche to achieve average the process of the environment. The acceptance of a C-141 report by should their operations have failed to adequately investigate and remed on the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local laws and/or regulations.  Signature:	ater and oil occur several days watered routinely not to other facility when the MSO introlled the releasered (17 oil and contaminated soil erage 1300-ppm contaminations and the NMOCD and diate contamination and diate contamination.	arred when the lifth no flow and (every 30 to 60 ties in the field eturned to the 1 ase and contacted water and dishloride. Blended knowledge and und perform correctiked as "Final Rewalth pose a that pose a that pose a that	(6-1H w. was rou min) fo to restant 6-5 at 0 d supervater).  sposed of material inderstand tive action eport" do eat to groesponsib	rell unload ted to an or flow and flow and tempers 645, the twiston. A flow used that pursues for release not religing for consider the control of the contr	ded into an open top ta dinad shown ssors follow well had star opproximate to backfill extend to NMO asses which in the operation of the operation with the operation of the ope	open top tank nk on location to a no sign of sing a Nuevo rted unloading ly 32-bbl of fluid to below 1000- cavated area(s).  CD rules and tay endanger tor of liability er, human health th any other
Printed Name: Donna Thompson	Approved by	Sivironmental Sp	oecialist:		· <u>·</u> ·	<u> </u>
Title: HES Lead	Approval Date	: 7-17-17	E	xpiration I	ate:	
E-mail Address: Donna K. Thompson@conocophillips.com	Conditions of	Approval:			Attached	
Date: 07/03/2014 Phone: 432-631-0276					7-14-	3/82

Pt 1419 83 7109

RECEIVED

### 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

### **Table of Contents**

1.0 Project Summary	3
2.0 Site Description	4
2.1 Geological Description	4
2.2 Ecological Description	4
2.3 Area Ground Water	5
2.4 Area Water Wells	5
2.5 Area Surface Water Features	5
3.0 Contaminant and Size of Area	5
4.0 NMOCD Site Ranking	5-6
5.0 Remediation Process	6
ATTACHMENTS	8-29
ATTACHMENTS  Plate 1: Site Location Map	<b>8-29</b>
Plate 1: Site Location Map	8
Plate 1: Site Location Map	8
Plate 1: Site Location Map	8 9 10
Plate 1: Site Location Map  Plate 2: Site Topography Map  Plate 3: Site Aerial Photograph  Plate 4: Ground Water Elevation Contour Map	8 9 10 11
Plate 1: Site Location Map	8 9 10 11 12
Plate 1: Site Location Map  Plate 2: Site Topography Map  Plate 3: Site Aerial Photograph  Plate 4: Ground Water Elevation Contour Map  Plate 5: Site Detail Drawing  Analytical Results Summary Table	8 9 10 11 12 13
Plate 1: Site Location Map  Plate 2: Site Topography Map  Plate 3: Site Aerial Photograph  Plate 4: Ground Water Elevation Contour Map  Plate 5: Site Detail Drawing  Analytical Results Summary Table  Xenco Laboratory Analytical Reports	8 9 10 11 12 13 14-20

### 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

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-ft<sup>2</sup>

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:

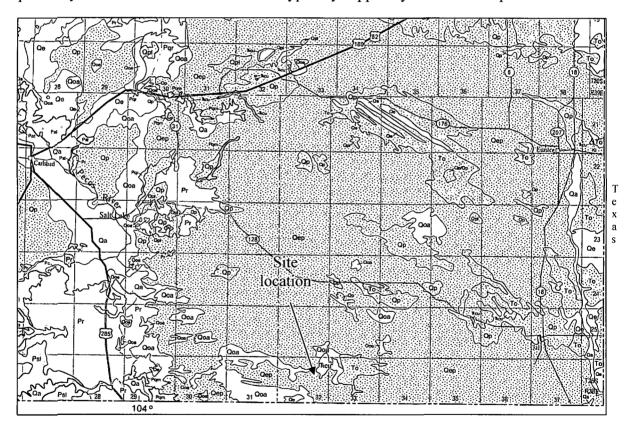
Remediation of the release affected area consisted of the excavation and disposal of 360-yd<sup>3</sup> (expanded) of TPH/chloride contaminated soil from the release affected area. Disposal was at CRI. Chloride contaminated soil that remained in the contaminated area was excavated and blended with clean 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. <u>The United States Geological Survey (USGS) Ground-Water Report 6</u>, "Geology and Ground-Water <u>Conditions in Southern Lea County, New Mexico," A. Nicholson and A. Clebsch, 1961</u>, 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)— Interlayed 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 (*Querqus 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-ft<sup>2</sup>.

### 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<sup>8015m</sup>, Benzene, and the mass sum of Benzene, Toluene, Ethyl Benzene, and total Xylenes (BTEX<sup>8260</sup>), 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 hodies.

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. G	ROUND WATER	2. WELLHEAD PROTECTION	3. DISTANCE TO SURFACE WATER
	TO GW <50 FEET: 20 POINTS	IF <1000' FROM WATER SOURCE, OR; <200' FROM PRIVATE DOMESTIC	<200 HORIZONTAL FEET: 20 POINTS
	GW 50 TO 99 FEET: 10 POINTS	WATER SOURCE: 20 POINTS	200-1000 HORIZONTAL FEET: 10 POINTS
	O 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 RANKII	NG SCORE AND ACCEPTABLE REMEDIAL GOAL	Concentrations
PARAMETER	20÷	10	0
BENZENE	10 PPW	10 PPM	10 PPM
BTEX	50 PPW	50 PPM	50 PPM
TPH	100 PPW	1000 PPW	5000 PPM

### **5.0 Remediation Process**

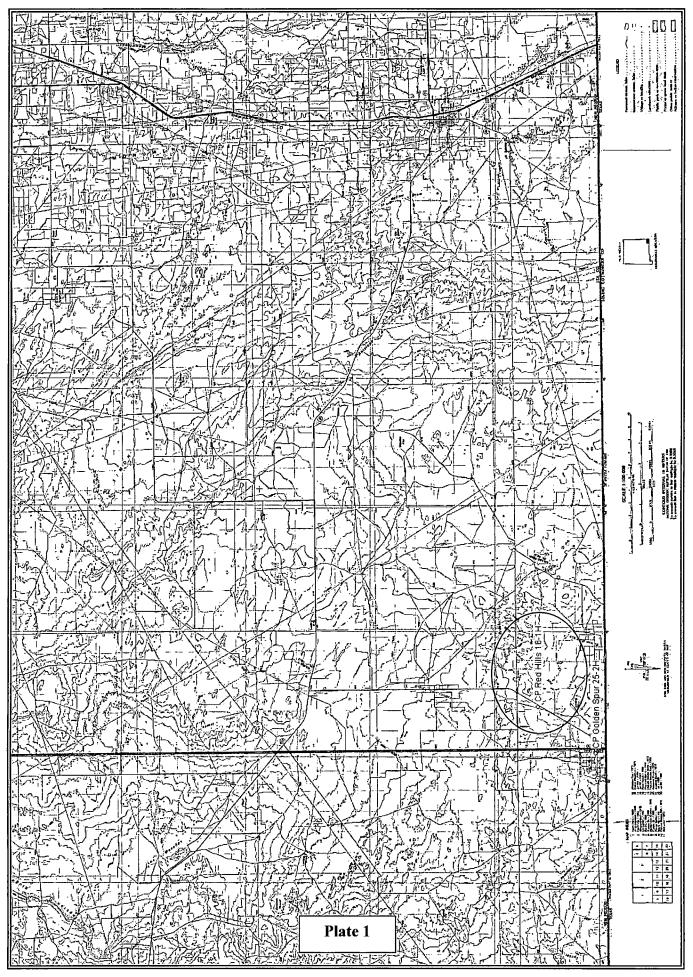
Remediation of the release affected area consisted of the excavation and disposal of 360-yd<sup>3</sup> (expanded) of TPH and/or high chloride contaminated soil based on the initial sample results from the April 2 sampling. TPH contamination was limited to the area along the north side of the pad and was eliminated from concern by disposing of it. The remaining chloride contaminated soil was excavated down to concentrations <1000-ppm Cl<sup>2</sup> (determined by field analyses utilizing Hach strips). The chloride contaminated soil was stockpiled in a clear area to be blended with clean caliche. 260-yd<sup>3</sup> 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.

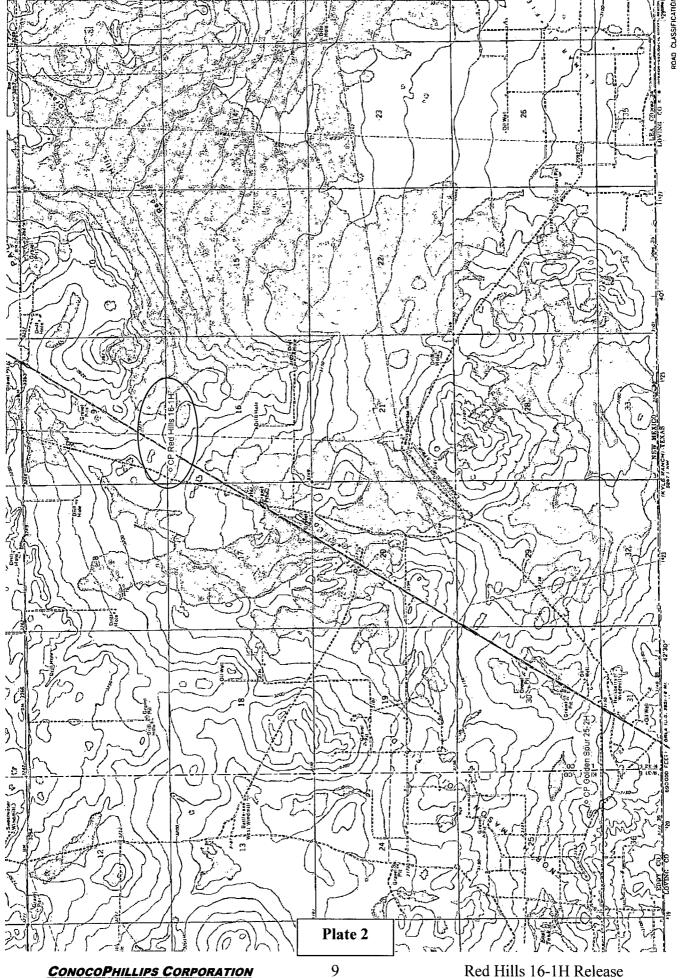
Based on the contents and data contained herein, ConocoPhillips Corporation requests that NMOCD require "no further action" as regards the soil contamination resulting from the August 1, 2013 release of produced water at this location.

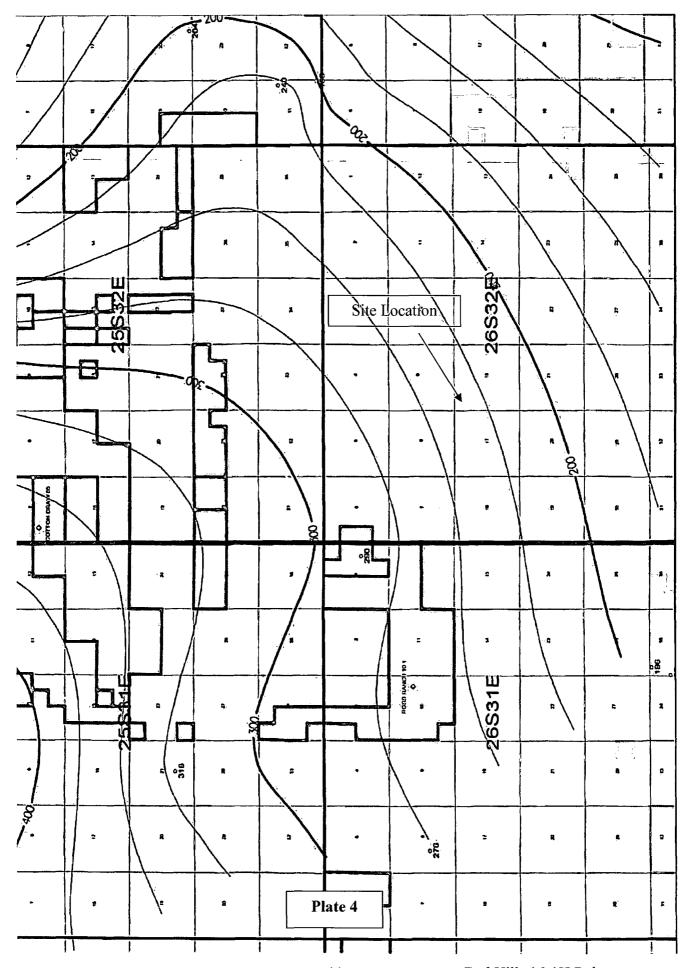
### **ATTACHMENTS**

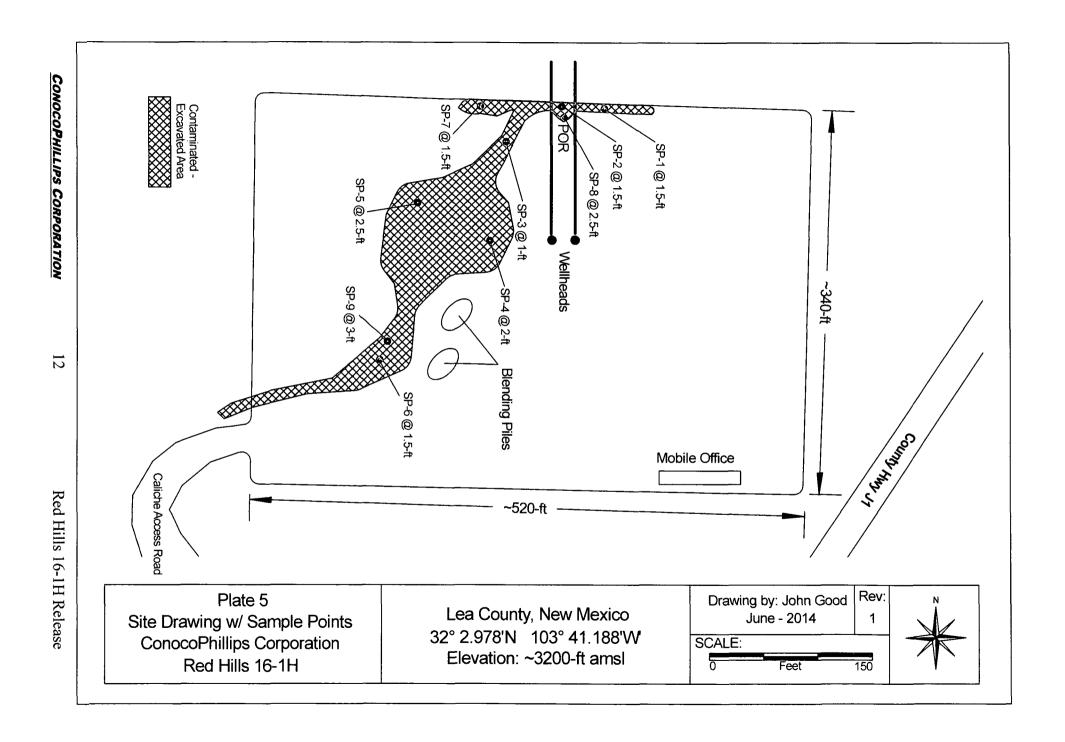
Plate 1: Site Location Map	8
Plate 2: Site Topography Map	9
Plate 3: Site Aerial Photograph	10
Plate 4: Ground Water Elevation Contour Map	11
Plate 5: Site Detail Drawing	12
Analytical Results Summary Table	13
Xenco Laboratory Analytical Reports	14-20
Photographs	21-23
Initial NMOCD C-141(s)	24
Final NMOCD C-1/11 Form	25

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### Laboratory Analyses Summary Table ConocoPhillips - Midland, TX

Project Name: Red Hills 16-1H (Aug-2013 Release)

			1000 000	100550.000	100 = = 0 00 1	100550 005
	Lab ID: L	482550-001	482550-002	482550-003	482550-004	482550-005
Analysis Requested	Field ID:	11	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
Increasio long by EDA 200/201	Extracted:	3-Apr-14	3-Apr-14	3-Apr-14	3-Apr-14	3-Apr-14
Inorganic lons by EPA 300/301	_ I	3-Apr-14	3-Apr-14			
SUB: TX104704215	Analyzed:			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:				Į	
	Analyzed:	3-Apr-14	3-Apr-14	3-Apr-14	3-Apr-14	3-Apr-14
	Units:		%	%	%	%
Percent Moisture	0,,,,,	2.04	18.8	0	6.01	2.71
TPH by Texas 1005	Extracted:	2-Apr-14	2-Apr-14	<u> </u>	0.01	2.71
1711 by Texas 1000		3-Apr-14	3-Apr-14			
	Analyzed:				···-	
	Units:	mg/kg	mg/kg			
C6-C12 Gasoline Range Hydrocarbons	Ļ	ND	ND			
C12-C28 Diesel Range Hydrocarbons		5590	833			
C28-C35 Oil Range Hydrocarbons		558	96			
Total TPH 1005		6148	929			
	•					
· · · · · · · · · · · · · · · · · · ·	Lab ID:	485704-001	485704-002	485704-003	485704-004	485704-005
Analysis Requested	Field ID:	SP-1	SP-2	SP-3	SP-4	SP-5
Milalysis Requested	<del> </del>		<del></del>			
	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
	Extracted: [	28-May-14	28-May-14			
Benzene/BTEX by EPA 8021B	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 lons by EPA 300/301	Extracted:	22-May-14	22-May-14	22-May-14	22-May-14	22-May-14
SUB: TX104704215	I	22-May-14	<del></del>			
30B. 1X104704213	Analyzed: Units:		22-May-14	22-May-14	22-May-14	23-May-14
	Offits.	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	Oints.	ND ND	ND ND			
	-	134	ND ND			
C12-C28 Diesel Range Hydrocarbons	-					
C28-C35 Oil Range Hydrocarbons	-	ND ND	ND_			
Total TPH 1005		134	0	L	<u> </u>	
	Lab ID:	485704-006	485704-007	485704-008	485704-009	486076-001-002
Analysis Requested	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
	Extracted:		28-May-14			
Benzene/BTEX by EPA 8021B	Analyzed:		28-May-14		· · · · · · · ·	
Donzonad i zn. Ny zi n vozio	Units:		mg/kg		<del> </del>	<del></del>
Ponzono	Oints.	<u>.</u>	ND		<del></del>	
Benzene	<b>⊣</b> ⊦	<del></del> -	ND ND			
Total BTEX	F. d	22 Mar. 44		00.1444	00.14-: 44	20.1414
Inorganic lons by EPA 300/301	Extracted:	22-May-14	22-May-14	22-May-14	22-May-14	30-May-14
SUB: TX104704215	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:	<u>21 May 14</u> %	%	%	%	%
Parcent Maisture	i Offics.		7.28	ND ND		
Percent Moisture	Ext	<u>INU</u>		IND	ND	6.0/3.0
TPH by Texas 1005	Extracted:		28-May-14		ļ	
	Analyzed:		28-May-14	1	1	1
				<del></del>		†
	Units:		mg/kg			



Project Id:

Project Location: NM

Contact: Bryan Clay

### Certificate of Analysis Summary 482550

### Conoco Phillips-Goldsmith, Goldsmith, TX

Project Name: Red Hill State 16-14

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

Report Date: 03-APR-14

								Project Mar	ager:	Kelsey Brooks		
	Lab 1d:	482550-0	901.	482550-0	02	482550-0	03-	482550-0	04"	482550-0	05	
Analysis Requested	Field Id:	ļ	l	2:		3		4		5`		
Analysis Requesiea	Depth:	1 In	1	6 In		l lin.		6 in		5 lin		
	Mâtrix:	ŞOIL		SOIL		SOIL	1	SOIL		żóir		
	Sampled:	Apr-02-14	09/05	Apr-02-14 0	9;10;	Apr-02-14 (	09:15	Apr-02-14 0	9:20	Apr-02-14 0	9:25	
Inorganic Anions by EPA 300/300.1	Extracted:	Apr-03-14	10:00	Apr-03-14.1	00:0	Apr-03-14:	10:00	Apr-03-14:1	0:00	Apr-03-14-1		
	Analyzed:	Apr-03-14	11:15	Apr-03*14.1	2:00	Apr-03-14	12:23	Apr-03-14 1	2:46	Apr-03-14-1	3:08	
	Únius/RL:	mg/kg	ŘĹ	mg/kg	RÊ	mg/kg	RÊ	mg/kg	RÎ	mg/kg	RL	
Chloride.		314	10.2	132	12.3	22000	1010	2230	106	57.7	10.3	
Percent Moisture	Extracted:						1		1		1	
	Analyzed:	Apr-03-14	i 1:00	Apr-03-14.1	1:00	Apr-03-14	11:00	Apr. 03-14.1	1:00	Apr. 03-14.1	1:00	
_	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	
Percent Moisture		2.04	00.1	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-02-14-1	7:00		1		1			
	Analyzed:	Apr-03-14	15:26	Apr-03-14 0	8:49							
	Uñits/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	1	6150	127	929	30:7							

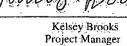
This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use.

The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no wurrunty to the end use of the data bereby presented.

Our faithfully is thinked to the amount involved for this work order unless subervise agreed to in writing.

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

Version: 1.%



### ANALYSIS REQUEST & CHAIN OF CUSTODY RECORD

हरवादन	4143 Greenbriar D															-	-												
	<ul> <li>5332, Blackberry C</li> <li>9701 Harry Hines I</li> </ul>										West I											ာ	0.7	, = .	4 O				
	☐ 9/0) Harry Hines	pivo., Dansa, 17			02-031	00					intwell.	Corpu	ș Char	isti, T)	784	DB 34	61:88	4037	1	Se	rial #	: 3	<u>U 1</u>	<u> </u>	<u> </u>	P	age	of	
Company-City	of hillie	5.0	P	hone					Lab	On	y:													19	27	٦,۲	55	$\cap$	Ì
Project Name-Location	Previous	ly done at XI			Pr	oject li	D.		TAT	: A	SAP 5	h 12	h(2	An	48h	3d :	5d 7	d 10	d 2	id S	tanda	rd TA	T is r	projec	zi.spe	cific			$\dashv$
KedH	115 54%	te 11	<u>i - 1</u>	4		•			It is t	ypic	ally 5	7 Wo	ukiri	g Day	ys fo	rlevel	ji an	d 104	Wo	king	days	for lev	/el III,	and l	V da	ta.			- 1
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3) < /5/			917.00			1	7							المنتمة	1	until pa	id. S	ample	s will	be he	ld 30	days a	after fil	inál re	part i	se m	nailed u	nless	
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Preservatives Various ( Cont. Size: 4oz (4), 8oz	V), HCI pH<2 (H), H (8), 32oz (32), 40r	12SO4 pH<2 i ni VOA (40),	(S), HN 1L (1),	03 pH 500ml	2 (N) (5), Te	, Asbe /	Cid&)	VaOH Var	(A) Z	Zn.Ajo /), C	&NaC	H (Z)	, (C	ool, <	4Ç}	(C). N	one (	NA),S	ee L Gla	abel ss Am	(L), (	Other (	(O) _	ear (	C). F	lastic	o:(P) '\	/ärious	/V\

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Project Id: 16-H

Project Location: TX

Contact: Bryan Clay

### Certificate of Analysis Summary 485704

### Conoco Phillips-Goldsmith, Goldsmith, TX

Project Name: RED HILLS 16-H

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

Report Date: 29-MAY-14
Project Manager: Kelsey Brooks

								Trujectavia	uager:	Versel, prook	<u> </u>		
	Lab Id:	485704-0	001	485704-0	02	485704-0	03	485704-0	04	<b>48</b> 5704-0	05	485704-0	06
dántusis Büniyastad	Field Id:	SP 1		SP·2.		SP 3		SP 4		SP 5		SP 6	
Analysis Requested	Depth:	18 In		18 In		12 In		2. In		5.5 In		1,5 In	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	May-16-14	08:00	May-16-14 (	08:30	May-16-14 (	9:00	May-16-14	09:30	May-16-14	10:00	May-16-14 1	10:30
BTEX-MTBE by EPA 8021B	Extracted:	May-28-14	07:00	May-28-14	07:00								
	Analyzed:	May-28-14	12:42	May-28-14	12;58								
	Units/RL:	mg/kg	RL	mg/kg	RL								
Benzene	1	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	Extracted:	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-22-14.1	13:00
SUB: TX104704215	Analyzed:	May-22-14	22:05	May-22-14	22:27	May-22-14 2	22:50	May-22-14	23:58	May-23-14	00:21	May-23-14 (	00:4 <del>4</del>
	Units/RL:	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	Extracted:												•
	Analyzed:	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 1	18:45
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	ŔĹ
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	Extracted:	May-27-14	14:00	May-27-14	14:00								
	Analyzed:	May-28-14	11:18	May-28-14	12:36		1						
	Units/RL:	mg/kg	RL	mg/kg	RL.		1						
C6-C12 Gasoline Range Hydrocarbons	-	ND	25.1	ND	27.3		i						
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 represent, has been midd for your exclusive and confidential use. The interpretations and results expressed throughout this analytical spoot represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the and use of the data hereby presented. Our liability is lumited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Kms Roah

Kelsey Brooks Project Manager



Project Id: 16-H

Project Location: TX

Contact: Bryan Clay

### Certificate of Analysis Summary 485704

Conoco Phillips-Goldsmith, Goldsmith, TX

Project Name: RED HILLS 16-H

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

Report Date: 29-MAY-14
Project Manager: Kelsey Brooks

	Lab Id:	485704-	007	485704-0	08	485704-00	09	-				
Angloria Banastad	Field Id:	SP 7.		SP. 8		SP 9						
Analysis Requested	Depth:	6 In		2.5 In		3 In						
	Matrix:	SOIL		SOIL		SOIL						
	Sampled:	May-16-14	11:00	May-16-14-1	11:30	May-16-14 1	2:00					
BTEX-MTBE by EPA 8021B	Extracted:	May-28-14	07:00						-			
	Analyzed:	May-28-14	13:15									
	Units/RL:	mg/kg	ŔĹ									
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	Extracted:	May-22-14	13:00	.May-22-14.1	13:00	May-22-14 1	3:00					
SUB: TX104704215	Analyzed:	May-23-14	01:06	May-23-14 (	1:29	May-23-14 0	1:52					
	Units/RL:	mg/kg	RL.	mg/kg	RL	mg/kg	RL					
Chloride		239	21.6	399	20.1	477.	40.3					
Percent Moisture	Extracted:											
İ	Analyzed:	May-21-14	18:45	May-21-14:1	18:45	May-21-14-1	8:45					
	Units/RL?	%	RL	%	RL	%	RL					
Percent Moisture		7.28	1.00	.ND	1.00	ND	1.00					
TPH by Texas1005	Extracted:	May-27-14	14:00									
	Analyzea:	May-28-14	13:01									
	Units/RL.	mg/kg	RL		i							
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									

This malytical 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 NENCO 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.

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Knis Roah

Kelsey Brooks Project Manager

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Preservatives: Vario	ous (V), HCl pH<2 (H),	H2SO4 pH<2 (S	, HNO3	pH<2 (N	), Asbc	Acid8	NaOH	(A),	Zn	Acan	аОн	(Z), (	Cool,	<4C													
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	uci (P), Solid(S), Wate		-																	1989						co.com	•



Project Id:

Project Location: NM

Contact: Bryan Clay

### Certificate of Analysis Summary 486076

Conoco Phillips-Goldsmith, Goldsmith, TX:

Project Name: Red Hills 16-1H

Riolect Name: Red Hills 10-1H

Date Received in Lab: Fri May-23-14(11)02 am Report Date: 02 JUN 14

Project Manager: Kelsey Brooks Lab Id. 486076-001 486076-002 Field Id: Bp.1 Bp 2 Analysis Requested Depth: SOIL SOIL Matrix. May-22-14 11:40 Sampled: May-22-14-11:37 Inorganic Anions by EPA 300/300:1 May-30-14-10:00 May-30-14 10:00 Extracted: May-31-14 02:16 May-31-14 01:53 :Analyzed: mg/kg Units/RL: mg/kg RL Chloride 1470 213 1190 103 Percent Moisture Extracted: May-27-14:15:00 May-27:14 15:00 Analyzed: Units/RL: ·% RL % RL Percent Moisture 6:02 1.00 3.00 1.00

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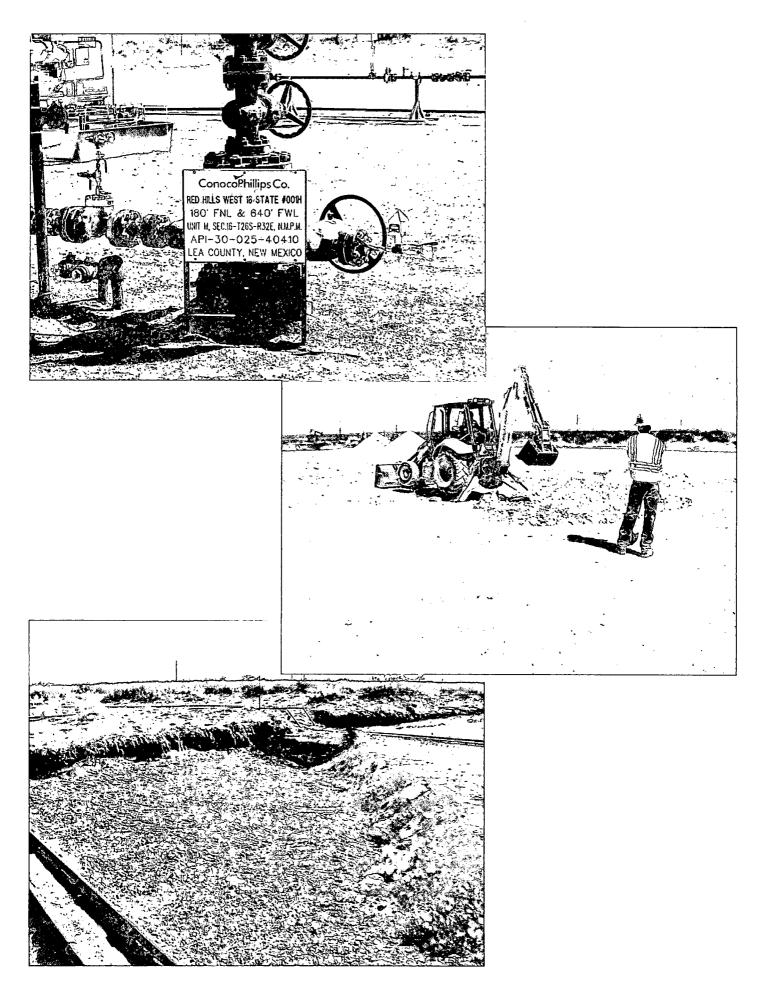
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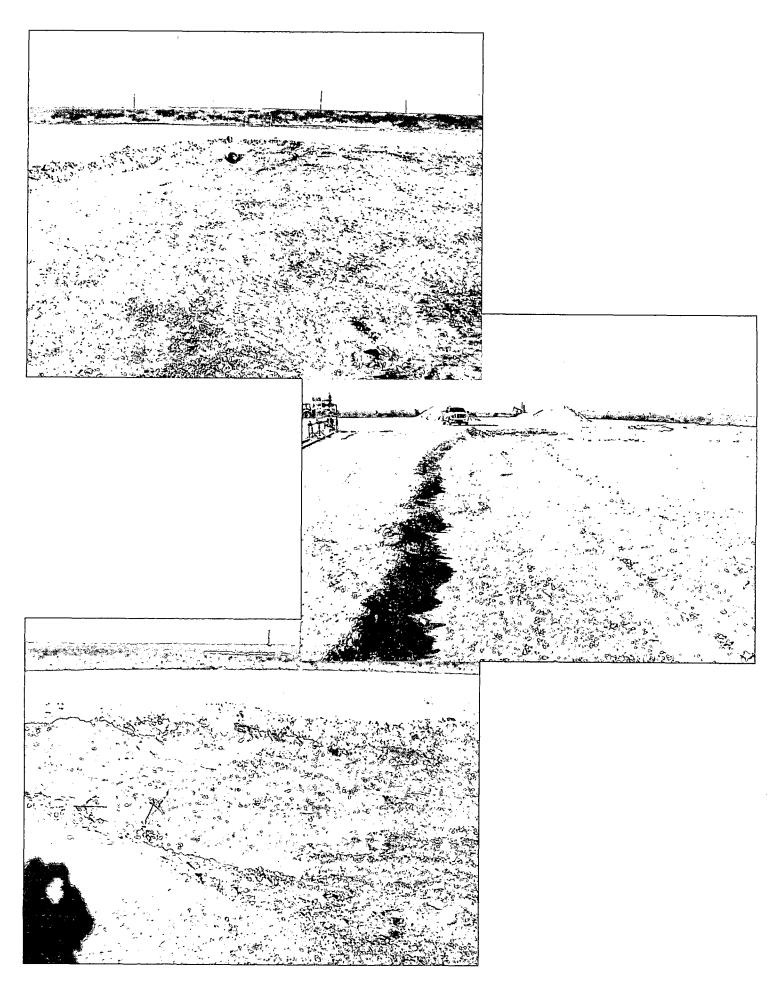
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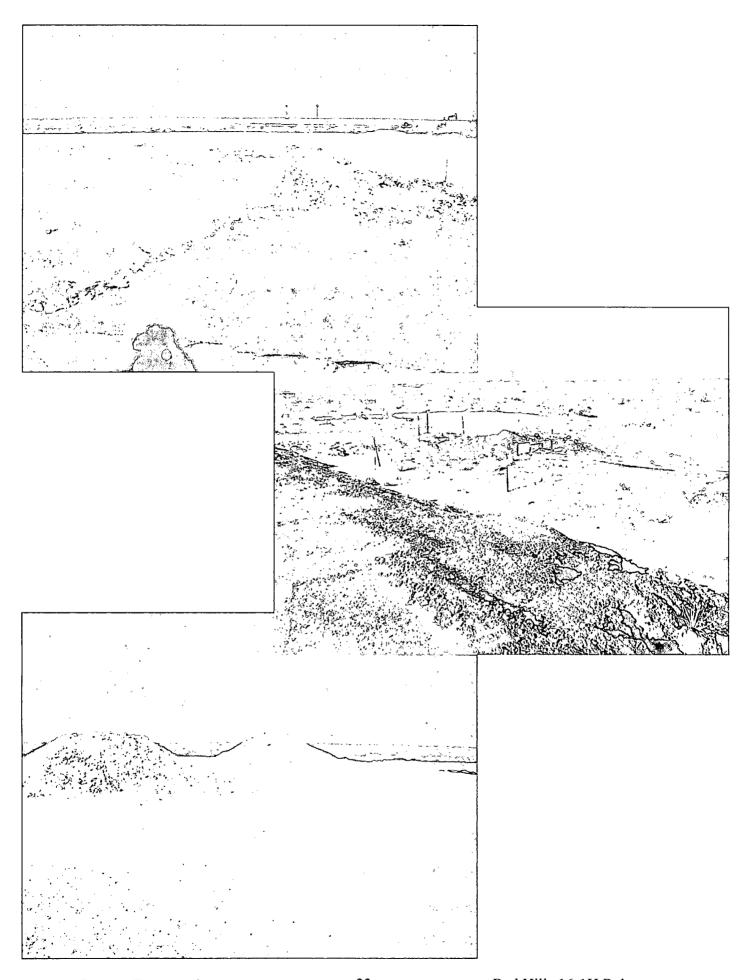
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P. By

Stafford, Texas: (281-240-4200)		Odessa, Texas (432-563-1800)		Lakeland, Florida (863-846-8526).
Dalias, Texas (214-802-0300)		Norcross, Georgia (770-449-8800)		Tompo, Florida (813-520-2000)
Service Center - San Antonio, Texas (210-509-3334)	WWW.XEIDCO.COLIT	Kanco Guude 4	Xenca Jab *	0100180
	TO THE TANK THE THE PERSON THE TANK OF THE PERSON THE P	THE THE PARTY AND	AnsArtical Information	Tri Martx Codes
Ctlent / Reporting Inturmation	Project Information			
Company Name / Branch: Dhill PS	Project Warner Humbers - 3376 202 Hills 16-17	22 411/1516-17		A= Air S = SoiVSod/Soild
	Project location			GW = Ground Water DW = Drinking Water
Email: Bryan. w. Chy C Conoco Auffill gne No:				SW - Sirface water
90021- Hobbs @ Jaho. (0 mm				WW= Wate Water
Project Contact:	PO Number:			84 W 8 W 8
Samplers's Name: Jeseph Coffee		واع		WW= Wasta Water
	Collection	(Number of pringer ved bottles v.		
No. Field-ID / Point of Collection	Saumple Day The Main John	BNON HOSHIN HOSHIN HOSHIN		Flekt Controents
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District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. Frist St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV.
1220 S. St. Francis Di., Santa Fe, NM 87505

### State of New Mexico Energy Minerals and Natural Resources

Submit 1 Copy to appropriate District Office in accordance with 19,15,29 NMAC.

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

			Rele	ease Notific	ation	and Co	rrective A	ction				
٠										Final	l Report	
Name of Co				Contact: Lakin Aaron								
		ok Odessa, ills West Sta		Telephone No.: 432-488-6067 Facility Type: Well Location								
Surface Owner: State of New Mexico Mineral Owner:						r. State of New Mexico API No.:30-025-40414						
1.	LOCATION OF RELEASE											
Unit Letter D	Section 16	Township 26S	Range 32E	Feet from the 180	North/ North	North/South Line   Feet from the   East/West Line   County   North   690   WEST   LEA						
Latitude <u>N32.04963300</u> Longitude <u>W103.68589700</u>												
Time of Pale	NATURE OF RELEASE  Type of Release: Oil and Produced water Volume of Release: 32 Volume Recovered: 31											1
		Top Frac T				Date and F		Hour of Dis				
	· · · · · · · · · · · · · · · · · · ·		• • •			Occurrence 8/1/13 @ 0630 HRS 8/1/13 @				0645 HRS (MST)		
Was Immedi	ate Notice C	iven?			•	(MST) If YES, To Whom?						
		×	Yes [	No Not Re	equired							
By Whom? I	akin Aaro	D				Date and Hour: 8/1/13:06:47						
Was a Water	course Read		Yes 🛛	1 No		If YES, Volume Impacting the Watercourse.						
If a Watercon	III					L						
II a Watercot	use was m	bacteat, Desci	ibe Filliy.									
2 7 6	cD 11	1.0	·1· 1 A ·*	- DE 11 - 4-								
On August water and o several day monitored r to other fact the MSO re the release (17 oil and	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 Are				•								;
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 hisbility 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: Lakin, Haron OIL CONSERVATION DIVISION							<u> </u>					
Printed Name	e: Lakin Aa	ırgıı				Approved by	Environmental Sp	pecialist:	-			
Title: Produc	tion Special	ist				Approval Dat	e:	`Ex	xpiration	Date:		
E-mail Addre	ss:Lakin:R	Aaron@cop	cóm			Conditions of Approval.						
Date: 08/02/2013 . Phone: (432) 488-6067												

<sup>\*</sup> 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

Form C-141 Revised August 8, 2011

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

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

Release Notification and Corrective Action													
j	-,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							Final Report					
Name of Company: ConocoPhillips Corporation Address: 3300 N Ave A, Bldg 6, Midland, TX 79705						Contact: Donna Thompson							
		ills West Sta		Telephone No.: 432-631-0276 Facility Type: Well Location									
						r. State of New Mexico API No.:30-025-40414							
LOCATION OF RELEASE													
Unit Letter M	Section 16	Township 26S	Range 32E	Feet from the 180		rth/South Line   Feet from the   East/West Line   Cor			County LEA				
Latitude 32° 2.978 N Longitude 103° 41:188 W													
NATURE OF RELEASE													
Type of Rele				1974 A	OKE	Volume of Release: 32   Volume Recovered: 31							
Source of Release: Open: Top Frac Tank						Date and H Occurrence (MDT)	Hour of Discovery 0645 HRS (MDT)						
Was Inimedia	ite Notice (		, Yes 🗀	No □ Not Re	quired	If YES, To. Whom?							
		Production S	Specialist			Date and Hour: 8/1/13 06:47							
Was a Water	course Read		Yes 🗵	] No		If YES, Volume Impacting the Watercourse.							
If a Watercou	irse was In	pacted, Descr	ibe Fully.	,									
Describe Cause of Problem and Remedial Action Taken.* On August 1, 2013 at @ 0645 lirs (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-fi2. 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: OIL CONSERVATION DIVISION													
Printed Name: Donna Thompson					Approved by Environmental Specialist:								
Title: HES Le	ead.					Äpproval Date: Expiration l		Date:					
E-mail Addre	ss: Donna	K. Thompso	n@conòc	cophillips.com		Conditions of Approval:							
Date: 07/03/2014 Phone: 432-631-0276													

<sup>\*</sup> Attach Additional Sheets If Necessary

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				•
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