AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.

App Number: pKJ1603938439

1RP - 4160

CONOCOPHILLIPS COMPANY

2/8/2016

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: ConocoPhillips Company	**Contact:** John W. Gates
Address: 3300 North "A" St., Bldg. 6, Midland, Tx. 79705-5406	**Telephone No.:** (575) 391-3158
Facility Name: VAC ABO Well #13-16 Release	**Facility Type:** Oil and Gas

Surface Owner: State of New Mexico	**Mineral Owner:** State of New Mexico	**API No.:** 30-025-03072

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	5	18S	35E					Lea

Latitude: N32° 46' 49.99" **Longitude:** W103° 28' 11.64"

NATURE OF RELEASE

Type of Release: Crude Oil and Produced Water	**Volume of Release:** 18 bbls (16-oil; 2- water)	**Volume Recovered:** 10 bbls (9-oil; 1--water)
Source of Release: 3-Inch Polyethylene flow line parted due to extreme cold weather	**Date and Hour of Occurrence:** 2/9/11 @ 16:00 p.m.	**Date and Hour of Discovery:** 2/9/11 @ 16:30 p.m.
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	**If YES, To Whom?** NMOCD	
By Whom? John W. Gates	**Date and Hour:** 2/11/11 @ 0900	
Was a Watercourse Reached? ☐ Yes ☒ No	**If YES, Volume Impacting the Watercourse:** Not Applicable	

If a Watercourse was Impacted, Describe Fully.* Not Applicable

Depth to Groundwater: ~ 60- feet below ground surface (bgs)

Describe Cause of Problem and Remedial Action Taken.* Release originated from parting of a 3-inch Poly Flow Line due to extremely cold temperature; approximately 18-bbls of production fluid was released covering a surface area of ±12,300 square feet; vacuum truck picked up 10-bbls of fluid; release area was GPS surveyed and photographed; Remediation Proposal was presented to and approved by NMOCD

Describe Area Affected and Cleanup Action Taken.* On 3-29-11 Environmental Plus, Inc., (EPI) mobilized labor and equipment to the release area; from 3-30-11 to 4-29-11 ±2,454 cubic yards of impacted material were excavated and transported to CRI for disposal; from 4-30-11 to 6-14-11 no remedial activities were undertaken; EPI re-mobilized to the site on 6-15-11, excavated and transported ±154 cubic yards of impacted material to CRI for disposal; with laboratory analytical results confirming excavation was void of impacted material, backfill operations commenced; from 6-20-11 to 8-04-11 ±2,604 cubic yards of clean top soil were used as backfill material; surface area was contoured to blend with natural topography and prevent wind/water erosion; due to drought conditions, it is recommended discing and deep seeding of disturbed areas with mixture approved by the NMSLO be postponed until weather and ground conditions are more conducive to vegetative growth

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: John W. Gates

Printed Name: John W. Gates

Title: HSER Lead

E-mail Address: John.W. Gates@conocophillips.com

Date: 9-28-11 **Phone:** (575) 391- 3158 (office)

OIL CONSERVATION DIVISION

APPROVED

2/10/16

Attached ☐

IRP 4160

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
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1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
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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 **ConocoPhillips Company**	Contact **John W. Gates**
Address **3300 North A St. Bldg 6, Midland, TX 79705-5406**	Telephone No. **505.391.3158**
Facility Name **VAC ABO Well # 13-16**	Facility Type **Oil and Gas**

Surface Owner **State Of New Mexico**	Mineral Owner **State Of New Mexico**	Lease No **30-025-03072**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
I	5	18 S	35E					Lea

Latitude **Longitude**

NATURE OF RELEASE

Type of Release **Crude Oil And Produced Water**	Volume of Release **18bbl (16oil, 2water)**	Volume Recovered **(9oil, 1water)**
Source of Release **3 inch poly flow line parted due to extreme cold temperature**	Date and Hour of Occurrence **2/9/11 1600**	Date and Hour of Discovery **2/9/11 1630**
Was Immediate Notice Given? ☒ Yes ☐ No ☐ Not Required	If YES, To Whom? **NMOCD**	
By Whom? **John Gates**	Date and Hour **2/11/11 0900**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
. ~16 bbls of oil and ~2 bbls of produced water were released from a parted 3inch poly flow line due to extreme cold temperatures.

Describe Area Affected and Cleanup Action Taken.*
The affected area is an 80' X 50' X 2" area of pasture land. A vacuum truck was called to pick up standing fluids. ~9 bbls of oil and 1 bbl of produced water were recovered. A work order has been generated to repair the failed section of flow line

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: John W. Gates	OIL CONSERVATION DIVISION Approved by District Supervisor:	
Printed Name: **John W. Gates**		
Title: **HSER Lead**	Approval Date:	Expiration Date:
E-mail Address: **John.W.Gates@conocophillips.com**	Conditions of Approval:	Attached ☐
Date: **2/11/11** Phone: **505.391.3158**		

• Attach Additional Sheets If Necessary

HOBBS OCD

OCT 0 7 2011

RECEIVED

LETTER OF TRANSMITTAL

ENVIRONMENTAL PLUS, INC.

Date:	3 October 2011
To:	**Mr. Geoffrey Leking**
Company Name:	New Mexico Oil Conservation Division
Address:	1625 North French Drive
City / State / Zip:	Hobbs, New Mexico 88240
From:	David P. Duncan
CC:	John W. Gates, ConocoPhillips – Lead HSE Permian-Buckeye Operations Myra Harrison, Land Manager, NMSLO – Hobbs, NM Steven Ikeda, Environmental Specialist, NMSLO – Santa Fe, NM
Project #:	EPI Ref. #150030
Project Name:	VAC ABO Well #13-16 Release Area
Subject:	***Remediation Closure Report***

# of originals	# of copies	Description
1		ConocoPhillips Company – VAC ABO Well #13-16 Release Area *Remediation Closure Report*

Remarks

Dear Mr. Leking:

Enclosed is a bound copy of the *Remediation Closure Report* for the above referenced project.

Should you have any technical questions, concerns or need additional information, please contact me at (575) 394-3481 or via email at dduncanepi@gmail.com. Official communications/correspondence should be directed to Mr. John W. Gates, ConocoPhillips Company, at (575) 391-3158 (office), (575) 390-4821 (cellular) or via e-mail at John.W.Gates@conocophillips.com

Sincerely,

David P. Duncan
Civil Engineer

P. O. Box 1558
Eunice, NM 88240
(505) 394-3481
Fax: (505) 394-2601

ENVIRONMENTAL PLUS, INC.
CONSULTING AND REMEDIAL CONSTRUCTION

3 October 2011

Mr. Geoffrey Leking
Environmental Engineer
New Mexico Oil Conservation Division
1625 North French Drive
Hobbs, New Mexico 88240

RE: Remediation Closure Report
ConocoPhillips Company – VAC ABO Well #13-16 Release Area
UL-D (NW1/4 of the NW1/4) of Section 04, T 18 S, R 35 E; Lea County, New Mexico
Latitude: 32° 46' 49.99"; Longitude: 103° 28' 11.64"
EPI Ref. #150030

Dear Mr. Leking:

On February 9, 2011 at 16:00 p.m. approximately 2-barrels (bbls) of produced water and 16-bbls of petroleum products were released from a ruptured 3" polyethylene surface flow line. Approximately 1-bbl of produced water and 9-bbls of petroleum product were recovered. The combined fluids covered an initial release area of ±12,300 square feet. After vacuuming of fluids, ConocoPhillips retained the services of Environmental Plus, Inc., (EPI) to GPS survey, photograph, assess product/water impacts of the release area, develop and implement a *Remediation Proposal* for the New Mexico Oil Conservation Division (NMOCD). For clarity and cross references elimination purposes, this *Remediation Closure Report* includes *Site Background, Preliminary Field Work, Analytical Data* and *Field Remediation Activities.*

Site Background

Although the release was from VAC ABO #13-16 surface production flowline, the release area is in the near vicinity (±150-feet southeast) of injection well VAC ABO #13-21. Hence, legal descriptions of release area will relate to that well. The release area is located in Section 04, T18S, R35E at an approximate elevation of 3,951 feet above mean sea level (amsl). The property is owned by the State of New Mexico and managed by the New Mexico State Land Office (NMSLO). A search for water wells was completed utilizing the New Mexico Office of the State Engineers website and a database maintained by the United States Geological Survey (USGS). No water wells (domestic, agriculture or public) or bodies of surface water exist within a 1,000 feet radius of the release area (reference Figure 2). Groundwater data indicates the average water depth is approximately 60 feet below ground surface (bgs). Based on available information, it was determined the vertical distance between impacted soil and groundwater is approximately 55 feet. Utilizing this information, NMOCD Remedial Threshold Goals (NMOCD Goals) for this Site were determined as follows:

2100 AVE O ~ PO BOX 1558 ~ EUNICE, NM 88231
PHONE (575) 394-3481 * (575) 394-2601 FAX

ENVIRONMENTAL PLUS, INC.

Parameter	NMOCD Goals
Benzene	10 mg/Kg
BTEX	50 mg/Kg
TPH	100 mg/Kg
Chlorides	250 mg/Kg

Preliminary Field Work

On March 1, 2011 EPI visited the release area to conduct GPS survey and assess surface area damage. Having recently completed remediation activities in the Buckeye area [ConocoPhillips EVGSAU #29-13-006 Release Area located in UL-P (SE1/4 of the SE1/4) of Section 29, T17S, R35E], EPI concluded delineation via sample trenches or soil borings was not required. Dense rock formations which commence approximately four (4) inches and extend over fifteen (15) feet below ground surface (bgs) limit vertical migration of production fluids. Based on related experience, impacted area should be limited to less than five (5) vertical feet. This concept was advanced via efficiency of cleanup efforts in vacuuming the release area leaving little volume of production fluids for sub-surface seepage..

Analytical Data

Owing to rapid response in surficial cleanup efforts, surface soil samples were not collected for field testing or laboratory analysis. However, soil samples were collected during excavation activities to delineate both vertical and lateral extents of impacted material. As can be derived from *Table #3*, TPH concentrations were the constituent-of concern with chloride concentrations being a lesser impact. Soil samples were collected from bottom and sidewalls of the excavation at selected intervals for representation of actual field conditions (Note *Figure 4*).

Portions of soil samples were field analyzed primarily for organic vapors and chloride concentrations. Soil samples collected for testing of organic vapors were placed in a self-sealing polyethylene bag and allowed to equilibrate to ~70°F. Soil Samples were then tested for organic vapor concentrations utilizing a MiniRae™Photoionization Dectector (PID) equipped with a 10.6 electron-volt (eV) lamp calibrated for benzene response. Chloride concentrations were analyzed in the field using a LaMotte Chloride Kit (Titration Method).

Soil samples designated for laboratory analyses were immediately inserted into laboratory provided glass containers, placed into ice filled coolers and transported to an independent laboratory for quantification of TPH and chloride concentrations to a lesser extent. As determined by field testing, soil samples displaying low chloride concentrations were precluded for laboratory analyses.

Field Remediation Activities

After approval of the *Remediation Proposal* by the NMOCD and effective date of the "One-Call", EPI arrived at the release area on March 29, 2011 with a line locator spotting both surface and sub-surface pipelines as a precautionary measure. Equipment was mobilized to the release area on March 30, 2011 and excavation activities commenced. Impacted material was stockpiled on a plastic sheet to prevent additional contamination of the area. Via intermittent use of a trackhoe utilizing a

combination rock bucket and hammer hoe attachment, approximately 2,454 cubic yards of impacted material were excavated and transported to Controlled Recovery, Inc., (CRI) for remediation or disposal. Depth of excavation varied from 2-8 vertical feet with a surface area of 12,322 square feet.

As noted in *Table #3*, soil samples were collected at selective locations from the sidewall/bottom of the excavation and field analyzed for TPH and chloride concentrations as guidelines to depth and lateral extent of impacted soil. Soil samples indicating compliance with NMOCD Goals were collected/packaged as noted in *Analytical Data* above and transported to an independent laboratory for confirmatory analyses.

From April 29, 2011 to July 14, 2011 no remediation activities were undertaken at the release area. With laboratory analytical data indicating all soil samples save for an area around SW-4 (Ref. *Figure #4*) were in compliance with NMOCD Goals, EPI mobilized to the release area on July 15, 2011. The area around SW-4 was excavated laterally and vertically until field tests indicated TPH concentrations in conformance with NMOCD Goals. Approximately 154 cubic yards of impacted material were excavated and transported to CRI. Soil sample was collected via previous discussed methods (*Analytical Data*) and immediately transported to Cardinal Laboratory, Hobbs, New Mexico for quantification of TPH concentrations. Upon receipt of laboratory data confirming TPH concentrations were in conformance with NMOCD Goals, EPI commenced backfill operations.

From April 20, 2011 through August 4, 2011, approximately 2,604 cubic yards of clean top soil were transported from the Pearce Trust Pit located approximately two (2) miles west of the release area. Top soil was free of deleterious material, rocks and large earthen clumps. The resultant surface area was sloped to promote natural drainage and prevention of wind/water erosion.

Remaining remedial activities are discing disturbed areas and deep seeding planting a grass mixture approved by the NMSLO. However, EPI recommends delaying this activity until disturbed areas receive substantial moisture. Should this event not happen until late fall or early winter, the disturbed areas should be disced and a cover crop (winter wheat) deep seeded. Discing of disturbed areas and deep seeding NMSLO seed mixture can be accomplished in spring 2012 when ground and weather conditions are more conducive to vegetative growth.

Should you have technical questions, concerns or need for additional information, please contact me at (575) 394-3481 (office), (575) 441-7802 (cellular) or via e-mail at dduncanepi@gmail.com.

Official communications should be directed to Mr. John Gates at (575) 391-3158 (office), (575) 390-4821 (cellular) or via e-mail at John.W.Gates@conocophillips.com with correspondence addressed to:

Mr. John W. Gates
Lead HSE – Permian-Buckeye Operations
29 Vacuum Complex Lane
Lovington, New Mexico 88260-9664

Sincerely,

ENVIRONMENTAL PLUS, INC.,

David P. Duncan
Civil Engineer
EPI Project Manager

Cc: Mr. John W. Gates, Lead HSE - Permian-Buckeye Operations – ConocoPhillips
Mr. Steve Ikeda, Environmental Specialist - NMSLO
Ms. Myra Harrison, Land Manager – NMSLO
Roger Boone, Operations Manager – EPI

Encl: Figure 1 - Area Map
Figure 2 – Site Location Map
Figure 3 – Initial Release Area Map
Figure 4 – Final Release Area Map with Sample Points
Table 1 – Well Data
Table 3 – Summary of Excavation Field Analyses and Laboratory Analytical Results
Attachment I - Photographs
Attachment II – Copy of Initial NMOCD Form C-141
Final NMOCD Form C-141

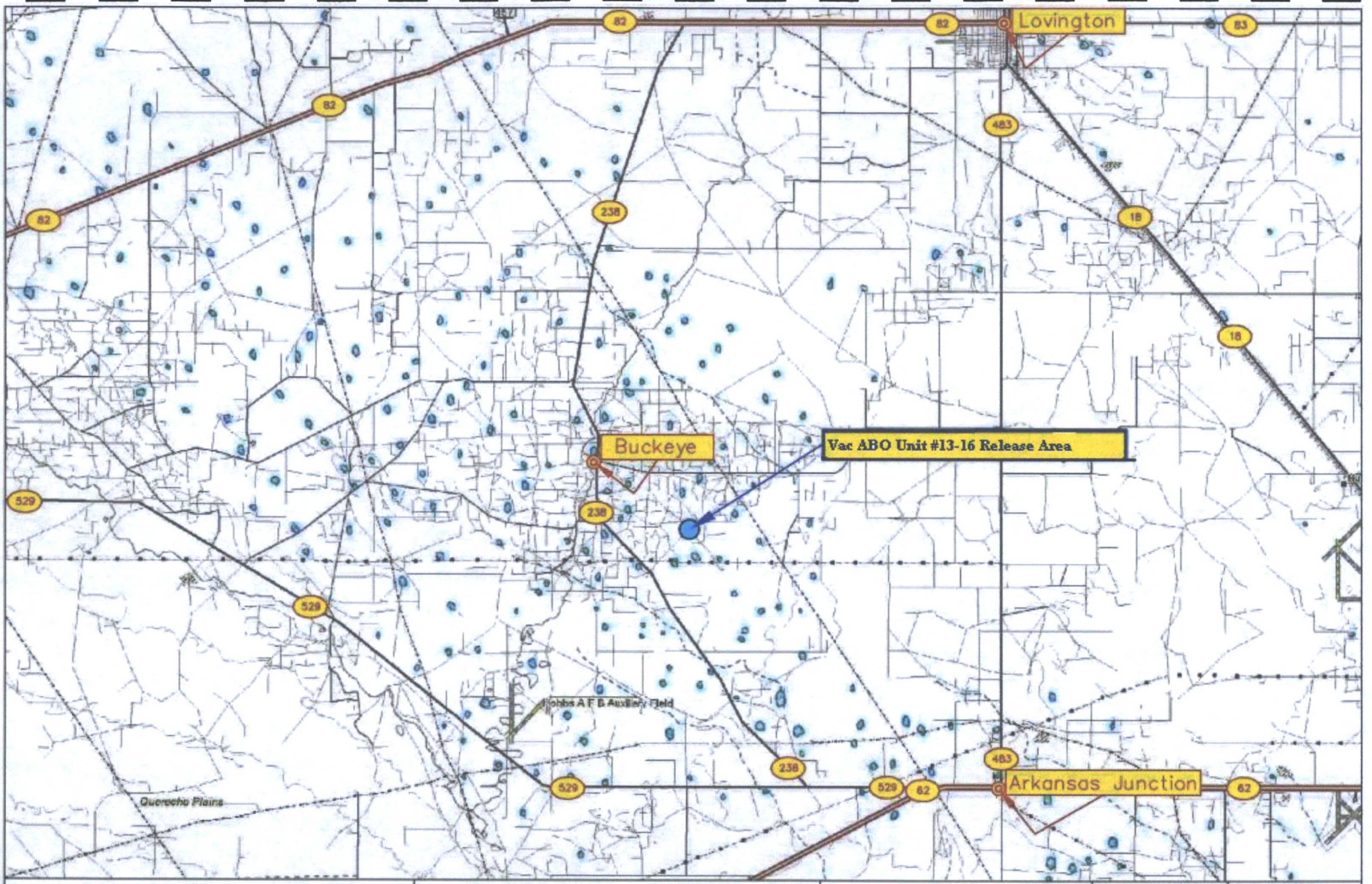

Figure 1
Area Map
ConocoPhillips
Vaccuum ABO Unit #16-13 Release Area

Lea County, New Mexico
NW 1/4 of the NW 1/4, Sec. 4, T18S, R35E
N 32° 46' 49.99" W 103° 28' 11.64"
Elevation: 3,948 feet amsl

DWG By: Daniel Dominguez
March 2006

REVISED:

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Miles

SHEET
1 of 1

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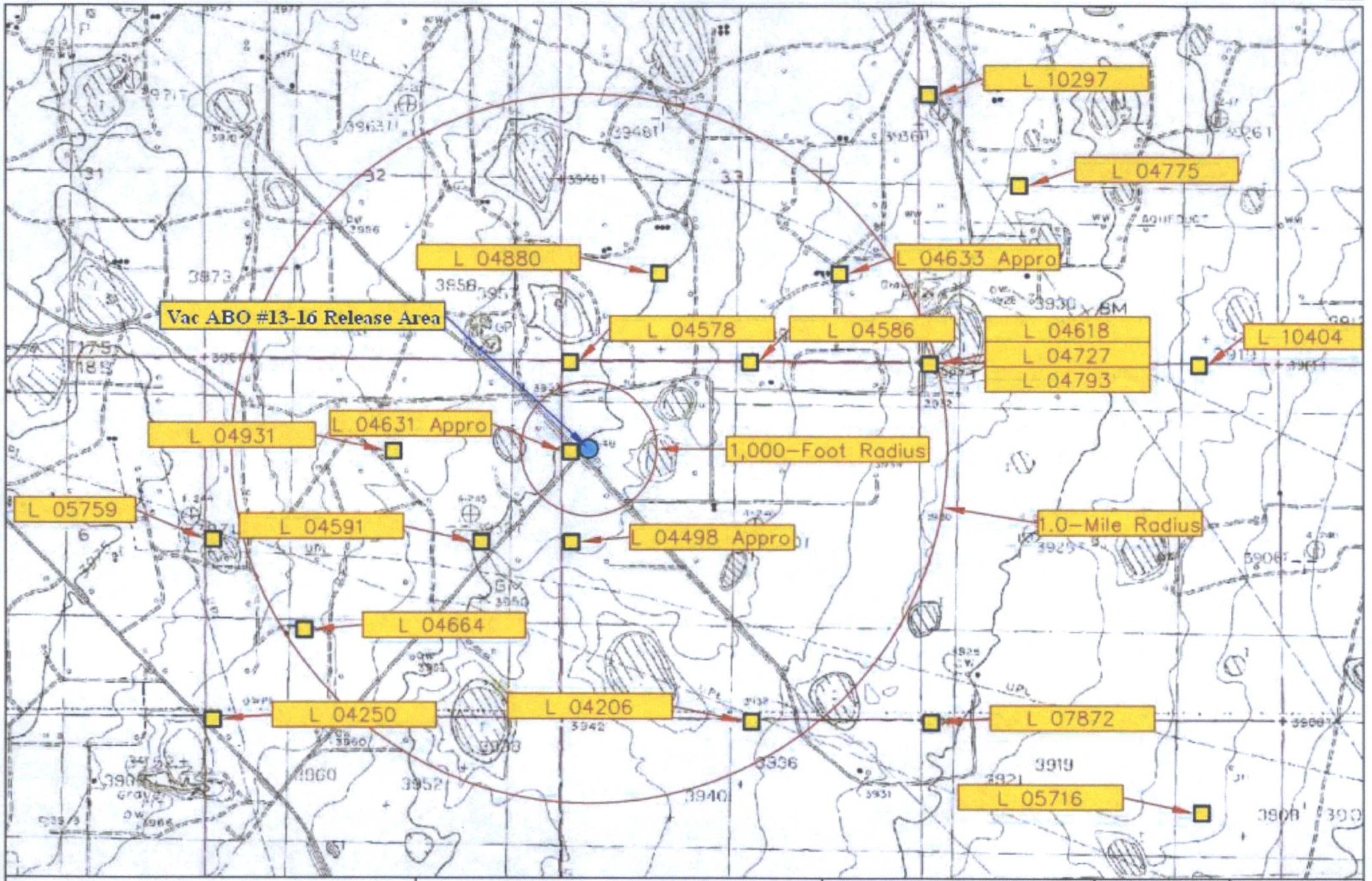

Figure 2
Site Location Map
ConocoPhillips
Vaccuum ABO Unit #13-16 Release Area

Lea County, New Mexico
NW 1/4 of the NW 1/4, Sec. 4, T18S, R35E
N 32° 46' 49.99" W 103° 28' 11.64"
Elevation: 3,948 feet amsl

DWG By: Daniel Dominguez
March 2006

REVISED:

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Feet

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1 of 1

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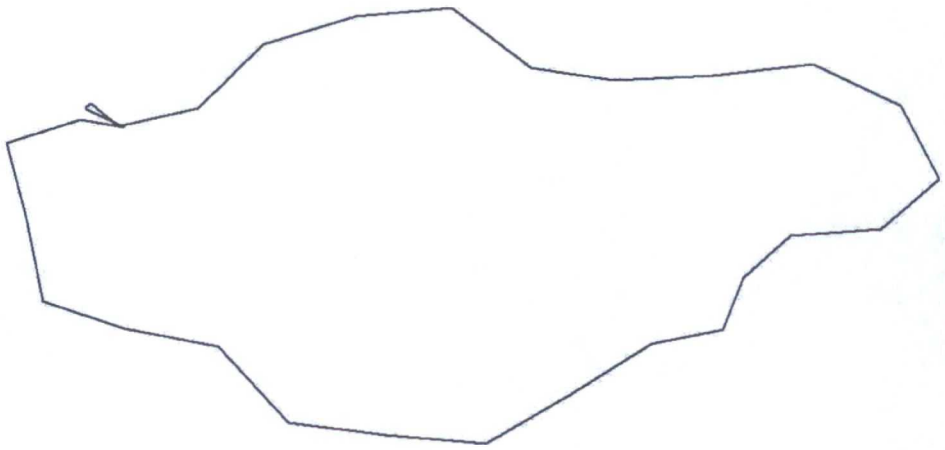

Release Area Approx. 12,300 ft.sq.

Figure 3

Lat/Long
WGS 1984

N

Scale 1:500
0 60.00
Feet

VAC ABO #13-16 Release.ssf
3/4/2011
GPS Pathfinder® Office
Trimble.

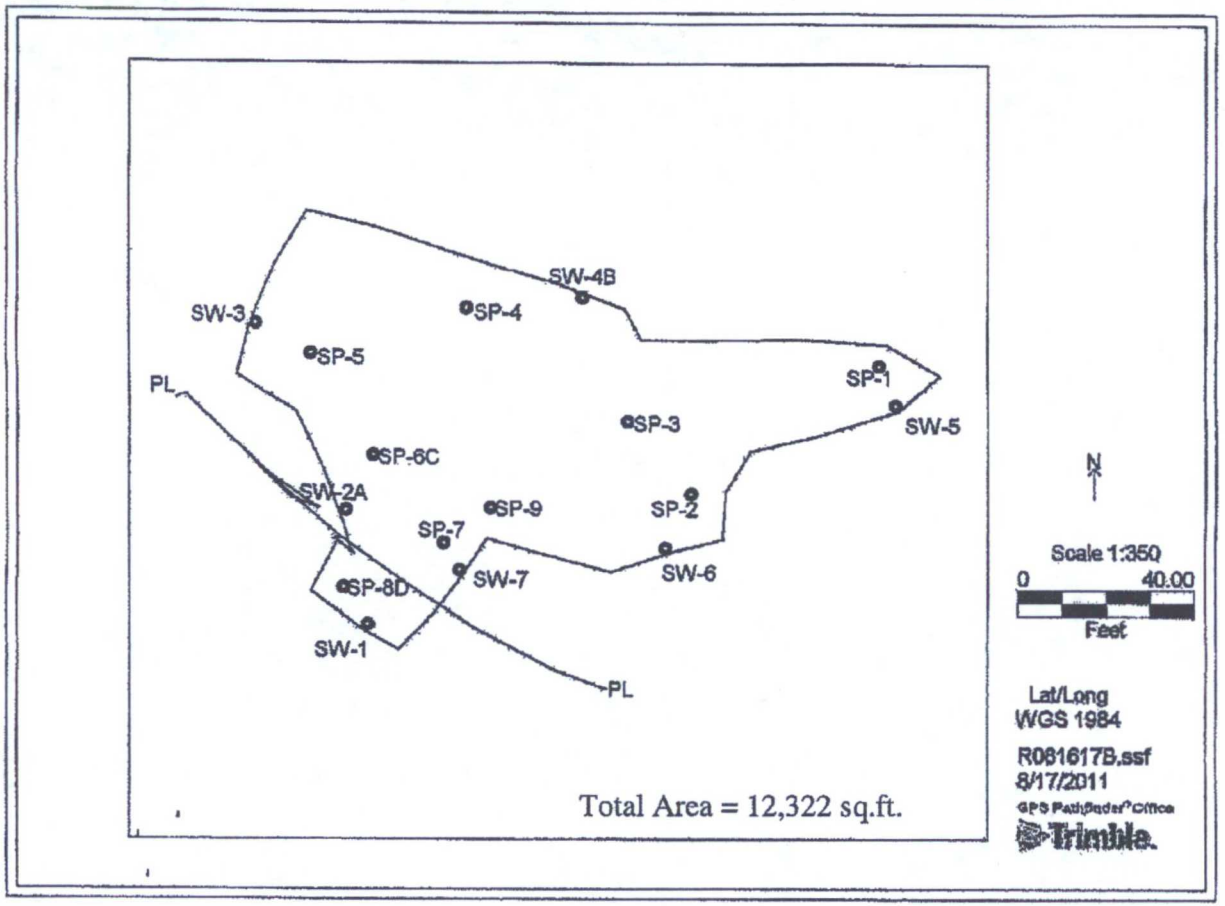

Figure 4 Sample Location Map ConocoPhillips VAC ABO #13–16	Lea County, New Mexico NE 1/4 of the NE 1/4, Sec. 5, T18S, R35E N 32.779906° W103.468107° Elevation: 3,946 feet amsl	DWG By: Jerry Smith September 2011	REVISED:	N
			SHEET 1 of 1	

TABLE 1

Well Data

ConocoPhillips - Vacuum ABO Unit Well #13-16 Release Area (Ref. # 150030)

Well Number	Diversion[A]	Owner	Use	Twsp	Rng	Sec q q q	Latitude	Longitude	Date Measured	Surface Elevation[B]	Depth to Water (ft bgs)
L 04206	3	JOHNN DRILLING CO.	PRO	18S	35E	04 4 3	N32° 46' 10.14"	W103° 27' 43.55"	09-Jul-59	3,940	50
L 04498 APPRO	0	LOFFLAND BROTHERS COMPANY	PRO	18S	35E	04 1 3	N32° 46' 36.37"	W103° 28' 14.63"	09-Aug-60	3,950	70
L 04631 APPRO	0	A. W. THOMPSON INC.	PRO	18S	35E	04 1 1 2	N32° 46' 49.43"	W103° 28' 14.69"	17-Apr-61	3,951	60
L 07872	0	ENERGY RESERVES GROUP INC.	PRO	18S	35E	03 3 3 1	N32° 46' 10.01"	W103° 27' 12.59"	07-Apr-78	3,930	62
L 04250	3	CACTUS DRILLING CORP. OF TEXAS	PRO	18S	35E	5	N32° 46' 10.38"	W103° 29' 16.56"	27-Aug-59	3,966	60
L 04591	3	SHARP DRILLING COMPANY	PRO	18S	35E	05 2 4	N32° 46' 36.43"	W103° 28' 30.11"	01-Feb-61	3,954	75
L 04664	3	HONDO DRILLING COMPANY	PRO	18S	35E	05 3 2	N32° 46' 23.45"	W103° 29' 1.06"	16-Jun-61	3,967	70
L 04931	0	MOBIL OIL CORPORATION	SRO	18S	35E	05 2 1	N32° 46' 49.55"	W103° 28' 45.61"	07-Mar-81	3,963	70
L 05759	0	PHILLIPS PET. CO.	PRO	18S	35E	05 1 3	N32° 46' 36.60"	W103° 29' 16.56"		3,970	
L 05716	0	MORAN OIL PRODUCING & DRILLING	PRO	18S	35E	10 2 2	N32° 45' 56.80"	W103° 26' 25.73"	09-Aug-65	3,915	49
L 04578	3	SHOENFELD-HUNTER-KITCH DRLG.CO	PRO	17S	35E	33	N32° 47' 2.45"	W103° 28' 14.75"	12-Jan-61	3,957	60
L 04586	3	HONDO DRILLING	PRO	17S	35E	33 4 3 3	N32° 47' 2.29"	W103° 27' 43.86"	18-Jan-61	3,947	50
L 04633 APPRO	0	HONDO DRILLING COMPANY	PRO	17S	35E	33 4 2	N32° 47' 15.34"	W103° 27' 28.42"	20-Apr-61	3,940	65
L 04880	0	HONDO DRILLING CO.	PRO	17S	35E	33 3 2	N32° 47' 15.52"	W103° 27' 59.30"	18-Apr-62	3,950	90
L 04618	3	A. W. THOMPSON INC.	PRO	17S	35E	34 3 3	N32° 47' 2.13"	W103° 27' 12.97"	31-Mar-61	3,931	55
L 04727	3	NOBLE DRILLING CORPORATION	PRO	17S	35E	34	N32° 47' 2.13"	W103° 27' 12.97"	05-Oct-61	3,931	45
L 04775	3	DALE MOUNT DRILLING COMPANY	PRO	17S	35E	34 1 4	N32° 47' 28.34"	W103° 26' 57.43"	11-Dec-61	3,934	33
L 04793	3	PHILLIPS PETROLUM CO.	PRO	17S	35E	34	N32° 47' 2.13"	W103° 27' 12.97"	30-Jan-62	3,931	50
L 10297	3	LASCO CONSTRUCTION	SAN	17S	35E	34 1 1 3	N32° 47' 41.50"	W103° 27' 12.94"	20-Feb-92	3,940	42
L 10404	3	LEE CATTLE COMPANY LTD.	STK	17S	35E	34 4 4 2	N32° 47' 2.05"	W103° 26' 26.35"	24-Jul-94	3,924	115
L 10304	0	YATES PETROLEUM	PRO	18S	35E	09 4 4 1	N32° 45' 17.63"	W103° 27' 27.68"	01-Feb-93	3,931	72

[B] = Elevation interpolated from USGS topographical map based on referenced location.
PRO = 72-12-1 Prospecting or development of natural resource
SRO = Secondary recovery of oil
SAN = 72-12-1 Sanitary in conjunction with commercial use
STK = 72-12-1 Livestock watering
quarters are 1=NW, 2=NE, 3=SW, 4=SE; quarters are biggest to smallest
Shaded area indicates wells not shown in Figure 2

TABLE 3

Summary of Excavation Soil Sample Field Analyses and Laboratory Analytical Results

ConocoPhillips Company

Vacuum ABO #13-16 Release Area (UL-D, Section 04, T18S, R35E, Lea County, New Mexico)

NMOCD #; EPI Ref. #150030

Sample I.D.	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (C6-C12) (mg/Kg)	TPH (C12-C28) (mg/Kg)	TPH (C28-C35) (mg/Kg)	Total TPH (C6-C35) (mg/Kg)	Chloride (mg/Kg)
SP-1	1.5	In Situ	14-Apr-11	11.2	240	--	--	--	--	--	ND	74.2	ND	74.2	61.8
SP-2	1	Excavated	14-Apr-11	14.9	--	--	--	--	--	--	33.7	525	16.8	576	--
SP-2A	3	In Situ	27-Apr-11	20.5	--	--	--	--	--	--	ND	ND	ND	ND	--
SP-3	4	In Situ	14-Apr-11	12.4	--	--	--	--	--	--	ND	ND	ND	ND	--
SP-4	3	In Situ	14-Apr-11	24.7	--	--	--	--	--	--	ND	ND	ND	ND	--
SP-5	3	In Situ	14-Apr-11	7.6	--	--	--	--	--	--	ND	20.4	ND	20.4	--
SP-6	5	Excavated	14-Apr-11	1,548	--	--	--	--	--	--	--	--	--	--	--
SP-6C	7	In Situ	27-Apr-11	34.3	--	--	--	--	--	--	ND	ND	ND	ND	--
SP-7	2	Excavated	14-Apr-11	9.1	--	--	--	--	--	--	ND	177	ND	177	--
SP-7A	3	In Situ	27-Apr-11	6.3	--	--	--	--	--	--	ND	ND	ND	ND	--
SP-8	4	Excavated	14-Apr-11	2,262	200	--	--	--	--	--	--	--	--	--	--
SP-8D	8	In Situ	27-Apr-11	38.5	--	--	--	--	--	--	ND	ND	ND	ND	207
SP-9	6	In Situ	27-Apr-11	35.2	--	--	--	--	--	--	ND	46.6	ND	46.6	--
SW-1	5	In Situ	27-Apr-11	47.5	--	--	--	--	--	--	ND	ND	ND	ND	--
SW-2	5	In Situ	27-Apr-11	44.3	--	--	--	--	--	--	ND	ND	ND	ND	--
SW-3	1	In Situ	27-Apr-11	41.4	--	--	--	--	--	--	ND	ND	ND	ND	--

TABLE 3

Summary of Excavation Soil Sample Field Analyses and Laboratory Analytical Results

ConocoPhillips Company

Vacuum ABO #13-16 Release Area (UL-D, Section 04, T18S, R35E, Lea County, New Mexico)

NMOCD #; EPI Ref. #150030

Sample I.D.	Depth (feet)	Soil Status	Sample Date	PID Field Analysis (ppm)	Field Chloride Analyses (mg/Kg)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Total Xylenes (mg/Kg)	Total BTEX (mg/Kg)	TPH (C6-C12) (mg/Kg)	TPH (C12-C28) (mg/Kg)	TPH (C28-C35) (mg/Kg)	Total TPH (C6-C35) (mg/Kg)	Chloride (mg/Kg)
SW-4	1.5	Excavated	27-Apr-11	42.1	--	--	--	--	--	--	55.7	1,340	20.7	**1,416**	--
SW-4A	2	Excavated	18-Jul-11	42.8	--	--	--	--	--	--	--	--	--	--	--
SW-4B	2	In Situ	18-Jul-11	4.2	--	--	--	--	--	--	<10.0	<10.0	--	<20.0	--
SW-5	1	In Situ	27-Apr-11	12.6	--	--	--	--	--	--	ND	26.0	ND	26.0	--
SW-6	1.5	In Situ	27-Apr-11	36.8	--	--	--	--	--	--	ND	ND	ND	ND	--
SW-7	1.5	In Situ	27-Apr-11	4.7	--	--	--	--	--	--	ND	ND	ND	ND	--
SW-8	5	In Situ	27-Apr-11	29.2	--	--	--	--	--	--	ND	53.9	ND	53.9	--
SW-9	5	In Situ	27-Apr-11	38.4	--	--	--	--	--	--	ND	41.3	ND	41.3	--
NMOCD Remedial Threshold Goals				100		10				50				100	250

Bold values are in excess of NMOCD Remediation Threshold Goals

Nomenclature: BH = Bottom Hole; SW- Sidewall (N = North, S = South, E = East and W = West)

J = Detected, but below Reporting Limits. Therefore, result ia an estimated concentration (CLP J-Flag)

-- = Not Analyzed; ND - Not Detected; SB- Soil Boring; BG - Background Soil Borin

Photograph No. – Lease Sign

Photograph No. 2 – Looking easterly at Release Area

Photograph No. # 3 – Trackhoes with Rock Bucket (left) and Hammerhoe attachment (right)

Photograph No. 4 – Looking southeast at excavation bottom and sidewalls

Photograph No. 5 – Looking southerly at excavation and ingress/egress ramp

Photograph No. 6 – Looking northerly at excavation, steel pipeline with pipe support and ingress/egress ramp

Photograph No. 6 – Looking southwesterly at partially backfilled excavation

Photograph No. 8 – Looking easterly at completed backfilled excavation and steel flowline