



# CONOCOPHILLIPS

## EVGSAU 3" FLOWLINE LEAK *Well #1*

### ENVIRONMENTAL SITE INVESTIGATION

PERFORMED BY:

**BBC INTERNATIONAL, INC.**  
WORLD-WIDE ENVIRONMENTAL SPECIALISTS  
1324 W. MARLAND BLVD.  
P. O. BOX 805  
HOBBS, NEW MEXICO 88240  
(505)397-6388 • FAX (505)397-0397  
EMAIL: [bbc@bbcinternational.com](mailto:bbc@bbcinternational.com)  
WEBSITE: [www.bbcinternational.com](http://www.bbcinternational.com)

**JANUARY 15, 2004**

PREPARED FOR:

**MR. STEPHEN R. WILSON  
CONOCOPHILLIPS  
29 VACUUM COMPLEX RD.  
LOVINGTON, NEW MEXICO 88260-9613**

*Conoco Phillips  
incident - nPAC0605548324  
Application - pPAC0605548569*



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**  
Cabinet Secretary

**Lori Wrotenbery**

Director

**Oil Conservation Division**

February 11, 2004

Conoco Phillips  
29 Vacuum Complex Rd.  
Lovington, NM 88260

Re: Work Plan Approval  
EVGSAU #3 Flow Line Leak - Dated: January 15, 2004  
UL-I, Sec 32-T18S-R35E

The remediation work plan referenced above and submitted to the New Mexico Oil Conservation Division (OCD) for ConocoPhillips by BBC is **hereby approved** with the following conditions:

1. ConocoPhillips shall perform chloride testing and include concentration levels in the final closure proposal.
2. ConocoPhillips shall monitor spray over area into the summer to ensure the location resumes a productive state and remediate if not.
3. ConocoPhillips shall remove all visibly stained material that is reasonably accessible near sample point 1.
4. ConocoPhillips shall submit photos of the leak and the repaired line. How many clamps are there?
5. ConocoPhillips shall notify OCD at least 48-hr. prior to closure sampling or backfilling.

Please be advised that OCD approval of this plan does not relieve ConocoPhillips of liability should their operations fail to adequately investigate and remediate contaminants that threaten ground water, surface water, human health or the environment. In addition, OCD approval does not relieve ConocoPhillips of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you have any questions or need assistance please write or call: (505) 393-6161, ext. 113, or e-mail: [psheeeley@state.nm.us](mailto:psheeeley@state.nm.us)

Sincerely,

Paul Sheeley-Environmental Engineer

Cc: Roger Anderson - Environmental Bureau Chief  
Chris Williams - District I Supervisor  
William Olson - OCD Hydrologist  
Larry Johnson - Environmental Engineer  
Ken Swinny - BBC

# **ConocoPhillips EVGSAU**

## **3" Flowline Leak**

### **10-30-03**

#### **1.0 INTRODUCTION**

The subject site is located east of Buckeye, New Mexico in Unit Letter I, of Section 32, Township 18 South, and Range 35 East. The site consists of undeveloped rangeland and petroleum production facilities. On October 30, 2003, the 3" flowline from well #3202-021 leaked approximately 40 bbls of oil and 5 bbls of water with approximately 35 bbls of oil and 3 bbls of water being recovered.

#### **2.0 SITE CHARACTERIZATION**

The leak area measures approximately 120 feet by 54 feet with an additional area of oil-sprayed vegetation of 30,755 square feet. A sketch of the leak area including the sample points can be reviewed in Appendix II of this report. The surface soil is brown topsoil. There is no water source within 1,000 feet of the site. There is no surface water within 1,000 feet of the site. Based on data from the New Mexico Office of the State Engineer, there is one water well located in Section 32, Township 18 South, and Range 35 East. The groundwater depth in this well is 58 feet. The bedrock in the Buckeye area is very shallow and at this site it is approximately one foot below the surface of the topsoil.

#### **3.0 SITE INVESTIGATION ACTIVITIES**

On November 5, 2003, BBC personnel conducted an inspection of the site. Four samples were taken at the site. Three samples were taken at a depth of one foot in the area where the liquid pooled and one sample was taken at 3 inches in the area where the vegetation was sprayed. Laboratory results are located in Appendix I of this report. Sample point locations can be reviewed on the site diagram in Appendix II of this report.

#### **4.0 CONCLUSION AND RECOMMENDATION**

The laboratory data for this site shows only one sample point to be above OCD guidelines for sites with groundwater depths greater than 50 feet. The TPH concentration at Sample Point 1 is 162 ppm for GRO and 2,310 ppm for DRO. Sample Point 1 is the nearest sample point to the leak point. The TPH

concentrations drop significantly as the sample points move away from the leak point. All other samples have TPH concentrations well below OCD guidelines. Laboratory results are located in Appendix I of this report. Taking into consideration that the depth to groundwater is greater than 50 feet and the existence of the rock layer at a depth of approximately one foot below ground surface, the evidence indicates that migration of hydrocarbons to groundwater is unlikely. Therefore, it is recommended that only surface remediation be conducted. This would consist of plowing and discing the soil and the addition of soil amendments such as fertilizer or humate to boost microbial action on the hydrocarbons and allow for revegetation of the site.

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised October 10, 2003

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

**Release Notification and Corrective Action**

**OPERATOR**

☒ Initial Report ☐ Final Report

Name of Company <b>ConocoPhillips</b>	Contact <b>Stephen Wilson</b>	
Address <b>HC60 Box 66, Lovington, NM</b>	Telephone No. <b>505-396-7962</b>	
Facility Name <b>East Vacuum Grayberg San Andres Unit</b>	Facility Type <b>Oil and Gas</b>	
Surface Owner <b>State of NM</b>	Mineral Owner	Lease No <b>30-025-26227-00-00</b>

**LOCATION OF RELEASE**

Unit Letter <b>I</b>	Section <b>32</b>	Township <b>17S</b>	Range <b>35E</b>	Feet from the	North/South Line	Feet from the	East/West Line	County <b>Lea</b>
-------------------------	----------------------	------------------------	---------------------	---------------	------------------	---------------	----------------	----------------------

Latitude

Longitude

**NATURE OF RELEASE**

Type of Release <b>Oil and Water</b>	Volume of Release <b>45bbl (40oil, 5water)</b>	Volume Recovered <b>(35oil, 3water)</b>
Source of Release <b>Flowline from well #3202-021</b>	Date and Hour of Occurrence <b>10-30-03 1:30am</b>	Date and Hour of Discovery <b>10-30-03 7:30am</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Sylvia Dickey</b>	
By Whom? <b>Kenny Kidd</b>	Date and Hour <b>10-30-03 2:00pm</b>	
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.\*

**3" flowline developed a leak on top of line due to external corrosion. Replace 5 joints flowline with new external coated flowline**

Describe Area Affected and Cleanup Action Taken.\*

**Pooled liquid was picked up with vacuum truck and spread sand. The wind was blowing +/- 35 mph during the discharge causing oil film to collect on the West side of vegetation. Liquids pooled in a area of 120' x 54' and 30,735 sq/ft of sprayed vegetation. A determination will be made as to the need for any further action. If further action is deemed necessary a follow up report will be filed. Windy conditions and no cattle in the area.**

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.

**OIL CONSERVATION DIVISION**

Signature:	Approved by District Supervisor:			
Printed Name: <b>Stephen R. Wilson</b>	Approval Date:			Expiration Date:
Title: <b>Sr. SHEAR Specialist</b>	Conditions of Approval:			Attached <input type="checkbox"/>
E-mail Address: <b>Stephen.R.Wilson@ConocoPhillips.com</b>				
Date:	Phone: <b>505-396-7962</b>			

\* Attach Additional Sheets If Necessary



# Permian Basin Business Unit

Record of Accidental Discharge of Crude Oil, Water or Hazardous Substances

Lease: EVGASA		Lease # <b>30-025-26227-00-00</b> (API, RRC, State, or Federal)		Field: Grayburg-SA	
Discovered By: <b>Gilberts Roustabout</b>		Date and Time Discovered: <b>10-30-03 @ 7:30am</b>			
Date and Time Discharge Began: <b>10-30-03 @ 1:30am</b>		Date and Time Discharge Ended: <b>10-30-03 @ 7:40am</b>			
Discharge Site:		Unit Letter I Sec. <b>32</b> Blk/TWP <b>17S</b> Survey/Range <b>35E</b> County/State: <b>Lea, New Mexico</b>			
Highway Map Location: <b>One mile west of Buckeye office on CR50. Turn South through cattle guard stay right to Satlite #3.</b>					
Location Of Discharge: <b>Satellite #3</b>		<input checked="" type="checkbox"/> Flowline ——— <b>200'</b> SW Feet to Nearest Wellhead Number <b>3202-021</b> <input type="checkbox"/> Injection. Line      Feet to Nearest Wellhead Number			
Specific Source of Discharge: <b>Flowline</b>					
Describe Cause of Discharge : <b>External Corrosion</b>					
Actions taken to Prevent Reoccurrence: <b>Replace 5 joints of 3' flowline with new external coated pipe</b>					
Describe Nature and Extent of Area Affected: <b>120' x 54' Pasture</b>					
Clean-Up Action Taken: <b>Vacuum truck out to pick up free liquids and spread sand. No cattle present.</b>					
<b>Specific Source of Discharge</b>			<b>Possible Reasons For Failure</b>		
<input checked="" type="checkbox"/> Flowline <input type="checkbox"/> Tank Piping <input type="checkbox"/> Vessel Piping <input type="checkbox"/> Line Check Valve <input type="checkbox"/> Wellhead Connections <input type="checkbox"/> Tank			<input checked="" type="checkbox"/> Corrosion <input checked="" type="checkbox"/> External <input type="checkbox"/> Internal <input type="checkbox"/> Fatigue <input checked="" type="checkbox"/> Age		
<input type="checkbox"/> Pump <input type="checkbox"/> Vessel <input type="checkbox"/> Chemical Storage Container <input type="checkbox"/> Chemical Injection Equipment <input type="checkbox"/> Casing/Tubing Communication <input type="checkbox"/> Other:			<input type="checkbox"/> Human Error <input type="checkbox"/> Pressure <input type="checkbox"/> Instrumentation <input type="checkbox"/> Mechanical <input type="checkbox"/> Weather		
Pipe Size = <b>3"</b> inches					
<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Fiberglass <input type="checkbox"/> Plastic <input type="checkbox"/> Transite					
<input checked="" type="checkbox"/> Buried <input type="checkbox"/> Surface <input type="checkbox"/> Bare					
<input type="checkbox"/> Coated <input type="checkbox"/> Internal <input type="checkbox"/> External <input type="checkbox"/> Cement Lined					
<input type="checkbox"/> Plastic Lined <input type="checkbox"/> Fiberglass <input type="checkbox"/> Was Line Chemically Treated <input type="checkbox"/> Other					
<b>Names and Volumes of Substances Spilled</b>		<b>Remedial Action Picked Up</b>			
<b>40 BBL Oil 5 BBL Produced Water</b>		<b>35 BBL Oil 3 BBL Produced Water</b>		Contained in Dike? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
Gallons Chemical Spilled		Gallons Chemical		MFG/Chemical Name:	
Gas Volume Released (MCF)		<input type="checkbox"/> Gas Leak	<input type="checkbox"/> Blowdown	<input type="checkbox"/> Upset	
Other – Explain:					
<b>Federal, State, and Local Agencies Notified:</b>					
<b>Agency</b>	<b>Person Notified</b>	<b>Date and Time Notified</b>	<b>Method Used</b>		<b>Person Notifying</b>
<b>NMOCD</b>	<b>Sylvia Dickey</b>	<b>10-30-03 @ 2:00pm</b>	<input checked="" type="checkbox"/> Phone <input type="checkbox"/> Fax		<b>Kenny Kidd</b>
		@	<input type="checkbox"/> Phone <input type="checkbox"/> Fax		
		@	<input type="checkbox"/> Phone <input type="checkbox"/> Fax		
Landowner/Tennant:			Telephone No.		
I Hereby Certify That The Above Information Is True To The Best Of My Knowledge.					
Name and Title: <b>Kenny Kidd</b>					
Date: <b>10-31-03</b>					

# APPENDIX I

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## Laboratory Analytical Results *November 2003*

### EVGSAU 3" Flowline Leak Buckeye, New Mexico

Prepared for:  
ConocoPhillips  
Lovington, New Mexico

2003

Prepared by:  
BBC International, Inc.



# ARDINAL LABORATORIES

PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR  
BBC INTERNATIONAL, INC.  
ATTN: CLIFF BRUNSON  
P.O. BOX 805  
HOBBS, NM 88241  
FAX TO: (505) 397-0397

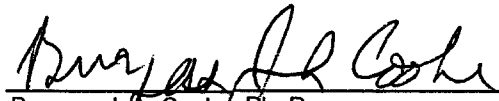
Receiving Date: 11/05/03  
Reporting Date: 11/07/03  
Project Owner: CONOCO PHILLIPS  
Project Name: 2.5" FLOWLINE LEAK  
Project Location: BUCKEYE, NM

Sampling Date: 11/05/03  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: BC

LAB NO.	SAMPLE ID	GRO (C <sub>6</sub> -C <sub>10</sub> ) (mg/Kg)	DRO (C <sub>10</sub> -C <sub>28</sub> ) (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
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ANALYSIS DATE:	11/05/03	11/05/03	11/05/03	11/05/03	11/05/03	11/05/03	11/05/03
H8142-1 SAMPLE POINT1-1'	162	2310	0.028	1.18	2.39	3.04	
H8142-2 SAMPLE POINT2-1'	<10.0	425	<0.005	0.006	0.015	0.030	
H8142-3 SAMPLE POINT3-1'	<10.0	215	<0.005	0.010	0.009	0.020	
H8142-4 SAMPLE POINT4-3"	<10.0	<10.0	<0.005	0.005	<0.005	<0.015	
Quality Control	779	818	0.091	0.089	0.089	0.264	
True Value QC	800	800	0.100	0.100	0.100	0.300	
% Recovery	97.4	102	90.9	89.2	88.6	88.1	
Relative Percent Difference	1.5	1.1	4.7	6.0	4.0	4.2	

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8260.

  
Burgess J. A. Cooke, Ph. D.

11/7/03  
Date

H8142.XLS

PLEASE NOTE: **Liability and Damages.** Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above-stated reasons or otherwise.



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

## CARDINAL LABORATORIES, INC.

2111 Beechwood, Abilene, TX 79603 101 East Marland, Hobbs, NM 88240  
(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Company Name: <u>IBC International Inc.</u>		BILL TO PO #:	
Project Manager: <u>Ally Brown</u>		Company:	
Address: <u>1324 W. Marland</u>		Attn:	
City: <u>Hobbs</u>		Address: <u>SAPE</u>	
Phone #: <u>(505) 397-6388</u>		City:	
Fax #: <u>(505) 397-0397</u>		State:	
Project #: <u>—</u>		Phone #:	
Project Name: <u>2.5" flowline leak</u>		Fax #:	
Project Location: <u>Ruckeye N.M.</u>			

LAB I.D.	Sample I.D.	MATRIX				PRES.	SAMPLING	DATE	TIME
		GROUNDWATER	WASTEWATER	SOIL	OIL				
148472-1	Sample point 1-1'							11/5/03	11:15
148472-2	Sample point 2-1'								11:41
148472-3	Sample point 3-1'								11:50
148472-4	Sample point 4-3"								11:58

Terms and Conditions: Interest will be charged on all accounts more than 30 days past due at the rate of 24% per annum from the original date of invoice, and all costs of collections, including attorney's fees.

PLEASE NOTE: Liability and Damages: Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Sampler Relinquished:		Received By:	
Date: <u>11-5-03</u>	Time: <u>13:30</u>	Date: <u>11-5-03</u>	Time: <u>11:05</u>
Relinquished By: <u>Roger Harrison</u>	Received By: (Lab Staff)	CHECKED BY: (Initials)	
Delivered By: (Circle One)	Sample Condition	Cool <input checked="" type="checkbox"/> Intact <input type="checkbox"/>	
Sampler - UPS - Bus - Other:	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Yes <input type="checkbox"/> No <input type="checkbox"/>	

Phone Result: ☐ Yes ☐ No Additional Fax #: ☐ Yes ☐ No  
Fax Result: ☐ Yes ☐ No  
REMARKS:

# APPENDIX II

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**Site Diagram**  
*November 2003*

**EVGSAU 3" Flowline Leak**  
**Buckeye, New Mexico**

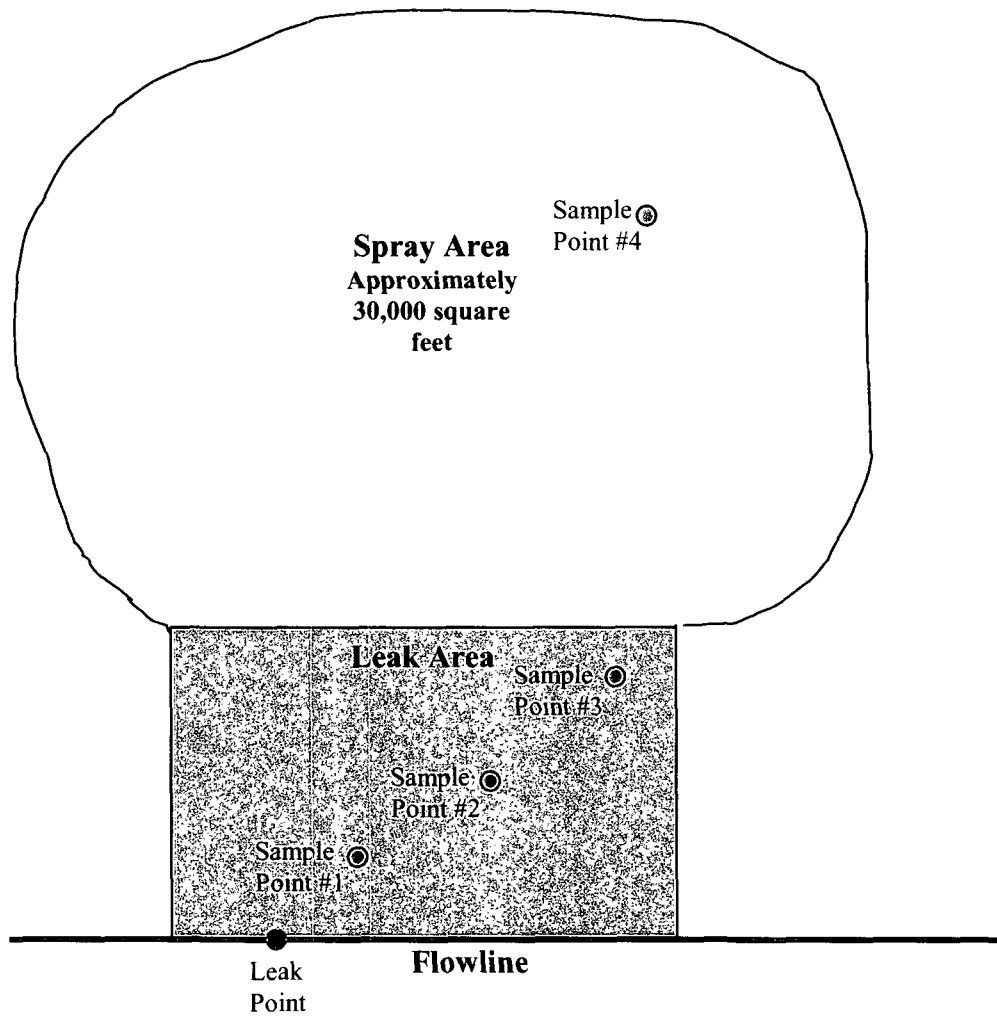
**Prepared for:**  
ConocoPhillips  
Lovington, New Mexico

**2003**

**Prepared by:**  
BBC International, Inc.



# CONOCOPHILLIPS EVGSAU 3" FLOWLINE



## LEGEND

- Leak point
- ⊙ BBC sample point

BBC INTERNATIONAL, INC.

## CONOCOPHILLIPS EVGSAU 3" FLOWLINE

Date: 1-15-04

Drawn By: JG

Disk:

Sheet of Sheets

Scale: Not to Scale

File Name

96 Location Buckeye N.M. Date 11-05-03  
 Project / Client ConocoPhillips / EUGSAR 3" Sloathine

Sample #	Time	Depth
SP 1	11:15	1'
SP 2	11:41	1'
SP 3	11:50	1'
SP 4	11:58	Surface = 3"

Samples taken with hand auger -  
 Auger refusal at 1'

Location \_\_\_\_\_ Date \_\_\_\_\_ 97  
 Project / Client \_\_\_\_\_

