



# CONOCOPHILLIPS

## MCA Battery 1 Trunkline Leak (10-19-04)

### 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)

**November 4, 2004**

PREPARED FOR:

**MR. KEN ANDERSEN**  
**CONOCOPHILLIPS**  
**P.O. BOX 180**  
**MALJAMAR, NEW MEXICO 88264-0180**

*Conoco Phillips - 217817*  
*facility - PPAC0605529397*  
*incident - nPAC0605529572*

*application - pPAC0605529769*  
*inspect - ePAC0605529522*



PHONE (505) 397-6388 • FAX (505) 397-0397 • 1324 W. MARLAND • P.O. BOX 805 • HOBBS, NM 88241-0805  
E-MAIL: [bbc@bbcinternational.com](mailto:bbc@bbcinternational.com)

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December 2, 2004

Paul Sheeley  
NM Oil Conservation Division  
1625 N. French Drive  
Hobbs, NM 88240

**RE: ConocoPhillips – MCA Battery 1 Trunkline Leak (10-19-04)**  
**Unit Letter E, Section 29, Township 17 South, Range 32 East**

Dear Mr. Sheeley:

BBC International, Inc. respectfully submits this site investigation report for the MCA Battery 1 Trunkline Leak on behalf of ConocoPhillips.

This site is an area that was investigated due to a trunkline leak that occurred on October 19, 2004. Approximately 90 barrels of produced water was released with 80 barrels of water recovered.

The investigation and sampling was conducted on October 27, 2004. The data indicates that the area of greatest contamination is in the upper portion of the leak area. Since the depth to groundwater is approximately 90 feet and there is a hard layer at approximately 25 feet below ground surface, it is recommended that three feet of topsoil be removed and disposed of, and a one foot thick clay or 40 mil poly liner be installed. The excavated area would be backfilled with clean topsoil, re-seeded with appropriate BLM seed, and closed.

I look forward to your review of this report and the agreement to our recommendation. If you have any questions, please do not hesitate to contact me at (505)397-6388, by email at [kswinney@bbcinternational.com](mailto:kswinney@bbcinternational.com), or at the address above.

Sincerely,

BBC International, Inc.

Ken Swinney, CEI, CRS  
Director of Operations

KS:jg

encl.



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

**Mark E. Fesmire, P.E.**

Director

**Oil Conservation Division**

January 6, 2005

Ken Anderson  
Conoco Phillips  
29 Vacuum Complex Rd.  
Lovington, NM 88260

Re: Work Plan Approval  
MCA unit battery #1  
Dated: 12-02-04  
UL-E, Sec 29-T17S-R32E

The remediation closure referenced above and submitted to the New Mexico Oil Conservation Division (OCD) for ConocoPhillips by BBC is **hereby approved** according to the information provided. ConocoPhillips must delineate the horizontal perimeter and submit a sketch or draft of the liner and dimensions accordingly.

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: [psheeley@state.nm.us](mailto:psheeley@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

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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised October 10, 2003

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

**Release Notification and Corrective Action**

**OPERATOR**

☒ Initial Report ☐ Final Report

Name of Company <b>ConocoPhillips Company</b>	Contact <b>Kenneth N. Andersen</b>	
Address <b>4001 Penbrook, Odessa, TX 79762</b>	Telephone No. <b>505.676.2371.5569</b>	
Facility Name <b>MCA Unit Btry # 1</b>	Facility Type <b>Oil and Gas</b>	
Surface Owner <b>BLM</b>	Mineral Owner <b>BLM</b>	Lease No <b>LC - 029410A</b>

**LOCATION OF RELEASE**

Unit Letter <b>E</b>	Section <b>29</b>	Township <b>17S</b>	Range <b>32E</b>	Feet from the <b>1395</b>	North/South Line <b>North</b>	Feet from the <b>1295</b>	East/West Line <b>West</b>	County <b>Lea Co., NM</b>
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Latitude **32.81186N** Longitude **103.79115W**

**NATURE OF RELEASE**

Type of Release <b>Produced Water</b>	Volume of Release <b>90 bbl (0 oil, 90 water)</b>	Volume Recovered <b>(0 oil, 80 water)</b>
Source of Release <b>MCA Btry # 1 4" fiberglass produced water transference trunk line ~ 400 yds NNE of MCA # 369.</b>	Date and Hour of Occurrence <b>10/19/04 @ 1330hrs</b>	Date and Hour of Discovery <b>10/19/04 @ 1400hrs</b>
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Silvia Dickey</b>	
By Whom? <b>Ken Andersen</b>	Date and Hour <b>10/20/04 @ 1100hrs</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.\*

**The spill was caused by the dresser sleeve bolts corroding allowing the sleeve to come apart and start leaking. The sleeve was removed and a collar and flange where installed.**

Describe Area Affected and Cleanup Action Taken.\*

**30 ftX55ft of dry sandy grass pasture with no cows present. The site will be sampled and a clean up action will be submitted for approval at a later date.**

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.

		<b>OIL CONSERVATION DIVISION</b>	
Signature:		Approved by District Supervisor:	
Printed Name: <b>Kenneth N Andersen</b>			
Title: <b>SHEaR Specialist</b>		Approval Date:	Expiration Date:
E-mail Address: <b>ken.n.andersen@conocophillips.com</b>		Conditions of Approval:	
Date: <b>10/20/04</b> Phone: <b>505.676.2371.5569</b>		Attached <input type="checkbox"/>	

- Attach Additional Sheets If Necessary

# ConocoPhillips

## MCA Battery 1 Trunkline Leak

### 10-19-04

#### 1.0 INTRODUCTION

The subject site is located south of Maljamar, New Mexico in ~~Unit Letter E, of Section 29, Township 17 South, and Range 32 East.~~ The site consists of undeveloped rangeland and petroleum production facilities. On ~~October 19, 2004,~~ a 4" fiberglass trunkline leaked approximately 90 bbls of water with approximately ~~80 bbls of water being recovered.~~

#### 2.0 SITE CHARACTERIZATION

The leak area measures approximately ~~61 feet by 49 feet~~ with a smaller area that measures approximately ~~19 feet by 24 feet.~~ A sketch of the leak area including the sample points can be reviewed in Appendix II of this report. The surface soil is red sand. 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 ground water monitoring well located at the Maljamar Plant, depth to ground water is approximately ~~90 feet.~~

#### 3.0 SITE INVESTIGATION ACTIVITIES

On October 27, 2004, BBC personnel conducted an inspection of the site. A soil boring was drilled near the center of the leak area using BBC's tractor mount drilling rig, to a total depth of 25 feet. Seven samples were taken from the soil boring; one each at one foot, three feet, five feet, ten feet, fifteen feet, twenty feet, and twenty-five feet. The samples were taken to Cardinal Laboratories for chloride analysis. Laboratory analysis for SB1 @ 1' is 9997 ppm chloride, 3' is 11,676 ppm chloride, 5' is 8477 ppm chloride, 10' is 9197 ppm chloride, 15' is 7598 ppm chloride, 20' is 5358 ppm chloride, and 25' is 3519 ppm chloride. The laboratory report for the analysis is located in Appendix I of this report. The soil boring location can be viewed on the site diagram in Appendix II of this report. Site photographs can be viewed in Appendix III.

Two near surface samples were taken; one from the north end of the leak area and one from the south end of the leak area. The samples were taken at a depth of one foot and were taken to Cardinal Laboratories for chloride analysis. Laboratory analysis for Sample Point 1-1' is 2799 ppm chloride. Laboratory analysis for Sample Point 2-1' is 3199 ppm chloride. Laboratory analytical results for this sampling event can be reviewed in Appendix I of this report. The location of the sample points can be viewed on the site diagram in Appendix II of this report.

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

The laboratory data for this site indicates a reduction in chloride concentrations from three feet to twenty-five feet. At three feet the chloride concentration is 11,676 ppm and at twenty-five feet the chloride concentration is 3519 ppm, this reduction is significant. Taking into consideration that the depth to groundwater is greater than 75 feet, and the subsurface lithology at the site consists of caliche and sandstone layers, the evidence indicates that migration of chlorides to groundwater is unlikely. Therefore, it is recommended that approximately 3 feet of topsoil, be removed and disposed of. This soil would be transported to an OCD approved landfarm or disposal site. A one foot thick compacted clay or 40 mil poly liner would then be installed. The excavated area would be backfilled with clean topsoil and reseeded with the appropriate BLM seed mix and the site would be closed.



## Permian Basin Asset

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

Lease: MCA Unit Btry # 1		Lease # LC - 029410A (API, RRC, State, or Federal)		Field: Maljamar	
Discovered By: Kevin McNabb			Date and Time Discovered: 10/19/04 @ 1400hrs		
Date and Time Discharge Began: 10/19/04 @ 1330hrs			Date and Time Discharge Ended: 10/19/04 @ 1415hrs		
Discharge Site: Unit Letter E Sec. 29 Blk/TWP 17S Survey/Range 32E County/State Lea Co., NM					
Latitude 32.81186N Longitude 103.79115W					
Highway Map Location: Go S from the Maljamar fire station on CR 126 3.3 miles, turn W on dirt road & go 2.7 miles, then N 100ft to leak.					
Location Of Discharge: 400 yards NNE of MCA # 369				<input type="checkbox"/> Flowline ----- Feet to Nearest Wellhead Number	
				<input type="checkbox"/> Injection Line Feet to Nearest Wellhead Number	
Specific Source of Discharge: MCA Btry # 1 4 inch fiberglass produced water transference trunk line.					
Describe Cause of Discharge: Dresser sleeve bolts corroded and gave up.					
Actions taken to Prevent Reoccurrence: Replaced dresser sleeve with collar and flange.					
Describe Nature and Extent of Area Affected: 30ftX55ft of dry sandy grass pasture with no cows present.					
Weather Conditions: Clear Calm Warm					
Clean-Up Action Taken: Picked up 80 Bbls of produced water.					
Remediation Action Taken: Will remediate on site.					
<b>Specific Source of Discharge</b>					
<input checked="" type="checkbox"/> Flowline <input type="checkbox"/> Pump					
<input type="checkbox"/> Tank Piping <input type="checkbox"/> Vessel					
<input type="checkbox"/> Vessel Piping <input type="checkbox"/> Chemical Storage Container					
<input type="checkbox"/> Line Check Valve <input type="checkbox"/> Chemical Injection Equipment					
<input type="checkbox"/> Wellhead Connections <input type="checkbox"/> Casing/Tubing Communication					
<input type="checkbox"/> Tank <input type="checkbox"/> Other:					
<b>Possible Reasons For Failure</b>					
<input checked="" type="checkbox"/> Corrosion <input type="checkbox"/> Human Error					
<input type="checkbox"/> External <input type="checkbox"/> Pressure					
<input type="checkbox"/> Internal <input type="checkbox"/> Instrumentation					
<input type="checkbox"/> Fatigue <input type="checkbox"/> Mechanical					
<input type="checkbox"/> Age <input type="checkbox"/> Weather					
Cost of Cleanup/Repair: \$3,000.00					
Pipe Size = 4 inches					
<input type="checkbox"/> Steel <input checked="" type="checkbox"/> Buried <input type="checkbox"/> Coated <input type="checkbox"/> Plastic Lined					
<input checked="" type="checkbox"/> Fiberglass <input type="checkbox"/> Surface <input type="checkbox"/> Internal <input checked="" type="checkbox"/> Fiberglass					
<input type="checkbox"/> Plastic <input checked="" type="checkbox"/> Bare <input type="checkbox"/> External <input type="checkbox"/> Was Line Chemically Treated					
<input type="checkbox"/> Transite <input type="checkbox"/> Cement Lined <input type="checkbox"/> Other					
<b>Names and Volumes of Substances Spilled</b>					
<b>Remedial Action Picked Up</b>					
0 BBL Oil 90 BBL Produced Water		0 BBL Oil 80 BBL Produced Water		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>					
Job Number					
Agency	Person Notified	Date and Time Notified	Method Used		Person Notifying
NMOC	Silvia Dickey	10/20/04 @ 1100hrs	<input checked="" type="checkbox"/> Phone <input type="checkbox"/> Fax		Ken Andersen
BLM	Paul Evans	@	<input type="checkbox"/> Phone <input type="checkbox"/> Fax		
BLM	Jim Amos	10/20/04 @ 1210hrs	<input checked="" type="checkbox"/> Phone <input type="checkbox"/> Fax		Ken Andersen
Landowner/Tenant: BLM			Telephone No. 505.393.3612		
I Hereby Certify That The Above Information Is True To The Best Of My Knowledge.					
Name and Title: Kevin McNabb, MSO					
Date: 10/20/04					

# **Appendix I**





# ARDINAL LABORATORIES

PHONE (915) 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: 10/28/04  
Reporting Date: 10/28/04  
Project Owner: CONOCO PHILLIPS  
Project Name: MCA BATTERY 1 4" TRUNKLINE  
Project Location: MALJAMAR, NM

Analysis Date: 10/28/04  
Sampling Date: 10/27/04  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: BC  
Analyzed By: AH

LAB NUMBER	SAMPLE ID	CF (mg/Kg)
H9291-1	SB1 @ 1'	9997
H9291-2	SB1 @ 3'	11676
H9291-3	SB1 @ 5'	8477
H9291-4	SB1 @ 10'	9197
H9291-5	SB1 @ 15'	7598
H9291-6	SB1 @ 20'	5358
H9291-7	SB1 @ 25'	3519
H9291-8	SAMPLE PT. 1-1'	2799
H9291-9	SAMPLE PT. 2-1'	3199
Quality Control		1060
True Value QC		1000
% Recovery		106
Relative Percent Difference		6.0

METHOD: Standard Methods

4500-CFB

*Amy Hill*  
Chemist

*10/28/04*  
Date

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.

H9291

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Page 1 of 1

BIL TO										ANALYSIS REQUEST									
Company Name: RBC International, Inc.																			
Project Manager: Cliff Burren																			
Address: 1144 W. Marland																			
City: Hobbs																			
State: N.M. Zip: 88240																			
Phone #: (505) 397-6386 Fax #: (505) 397-0397																			
Project #: —																			
Project Owner: ConocoPhillips																			
Project Name: MCA Buttery 1 4" Tank line																			
Project Location: Maljerra, N.M.																			
Sampler Name: Ken Sullivan																			
FOR LAB USE ONLY																			
Lab I.D.	Sample I.D.	# CONTAINERS	GROUNDWATER	WASTEWATER	BOIL	CRUDE OIL	SLUDGE	OTHER:	ACID/BASE:	ICE/COOL	OTHER:	PRESERV.	SAMPLING	DATE	TIME				
1	SB101'	1												10-27-04	10:00				
2	SB103'	1												10-27-04	10:05				
3	SB105'	1												10-27-04	10:10				
4	SB1010'	1												10-27-04	10:31				
5	SB1015'	1												10-27-04	11:30				
6	SB1020'	1												10-27-04	13:11				
7	SB1025'	1												10-27-04	14:34				
8	Sample pt 1-1'	1												10-27-04	10:51				
9	Sample pt 2-1'	1												10-27-04	11:06				

Terms and Conditions: Samples will be charged on all requests more than 30 days past due at the rate of 2.5% per annum from the original date of billing, and all costs of collection, including attorney's fees.

PLEASE NOTE: Liability and safety are the primary concerns of Cardinal Laboratories. Cardinal's liability and safety are not limited by the amount paid by the client for the services. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business interruption, loss of data, or loss of profits, incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of any service rendered by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Sampler Relinquished: *Ken Sullivan* Date: 10-27-04 Time: 3:00 pm  
Relinquished By: *Royce* Date: 10-28-04 Time: 7:50  
Delivered By: (Circle One) *Royce*  
Sampler - UPS - Bus - Other:

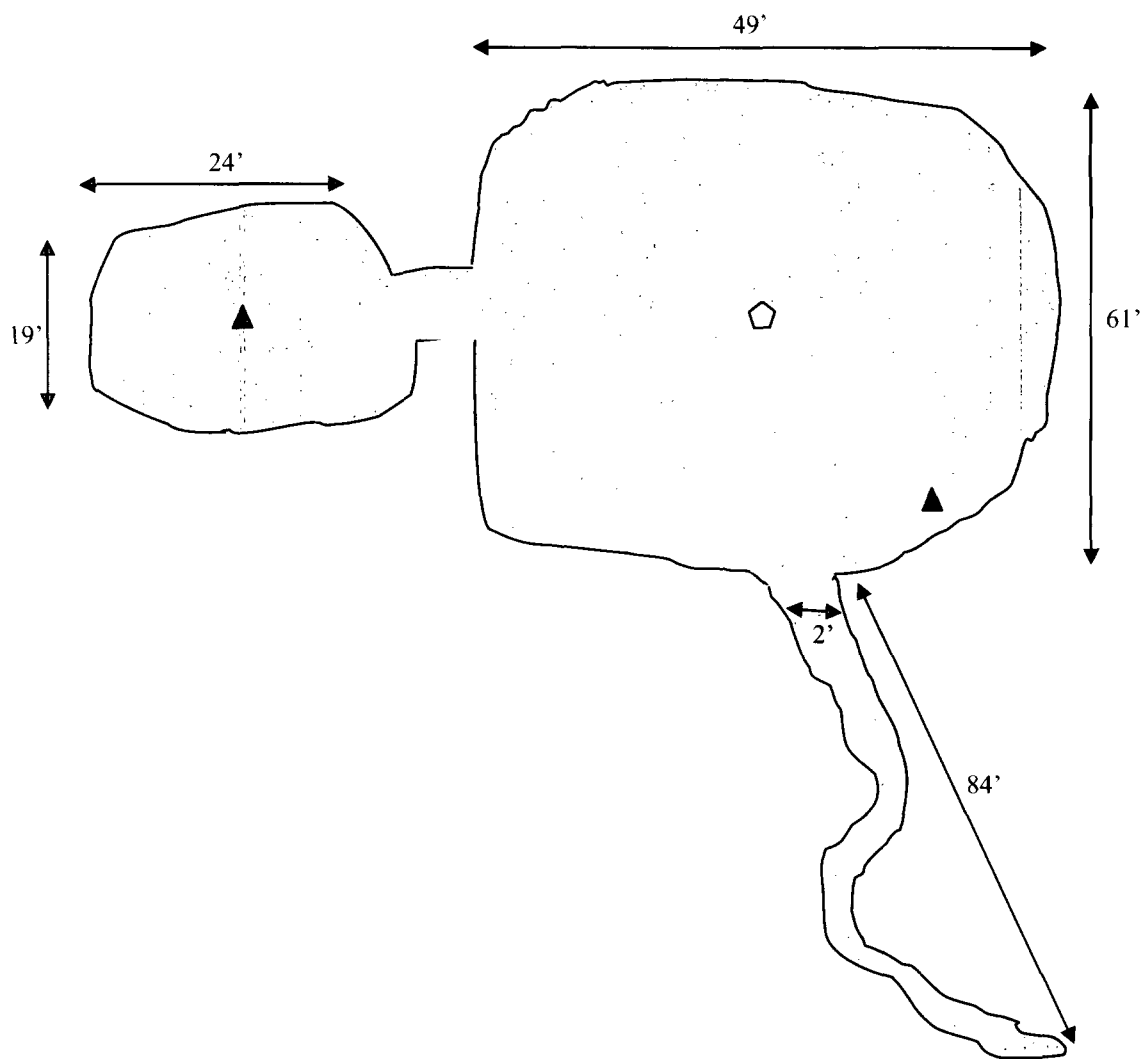
Received By: *Royce* Date: 10-27-04 Time: 3:00 pm  
Received By: *Royce* Date: 10-28-04 Time: 7:50  
Checked By: *Royce* (Initials)

Phone Result: ☐ Yes ☐ No Add'l Phone #:   
Fax Result: ☐ Yes ☐ No Add'l Fax #:   
REMARKS:

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

# Appendix II

# CONOCOPHILLIPS EVGSAU WELL MCA BATTERY 1



## LEGEND

- ◻ Soil Boring
- ▲ Sample Point
- ◻ Contaminated Area

BBC INTERNATIONAL, INC.

CONOCOPHILLIPS  
EAST VACUUM GLORIETTA

Date: 11-8-04

Drawn By: JG

Disk:

Sheet 1 of 1 Sheets

Scale: Not to Scale

File Name

Location Philippines, N. M. Date 12-27-04  
 Project Client Ceresco Phillips / MCA B. Royl-  
4" track line

Sample date time Field

SB1-1' 10:27:24 10:00 7800  
 SB1-3' " 10:28 11,000  
 SB1-5' " 10:30 10,200  
 SB1-10' " 10:31 8600  
 SB1-15' " 11:30 5400  
 SB1-20' " 13:11 4800  
 SB1-25' " 14:34 3000

SB1 Basin; GPS N 31.81184°  
 W 103.79137°

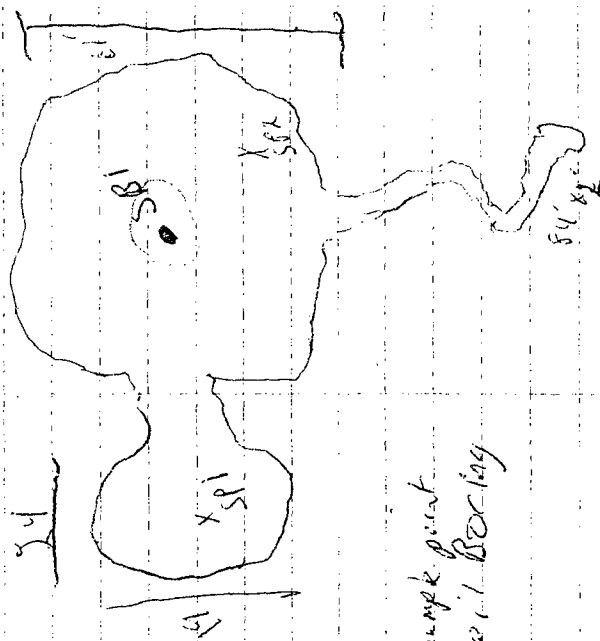
Sample 1-1' 10:27:24 10:51 3400

Sample pr 2-1' 10:27:24 11:28 4120

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

N →

19'



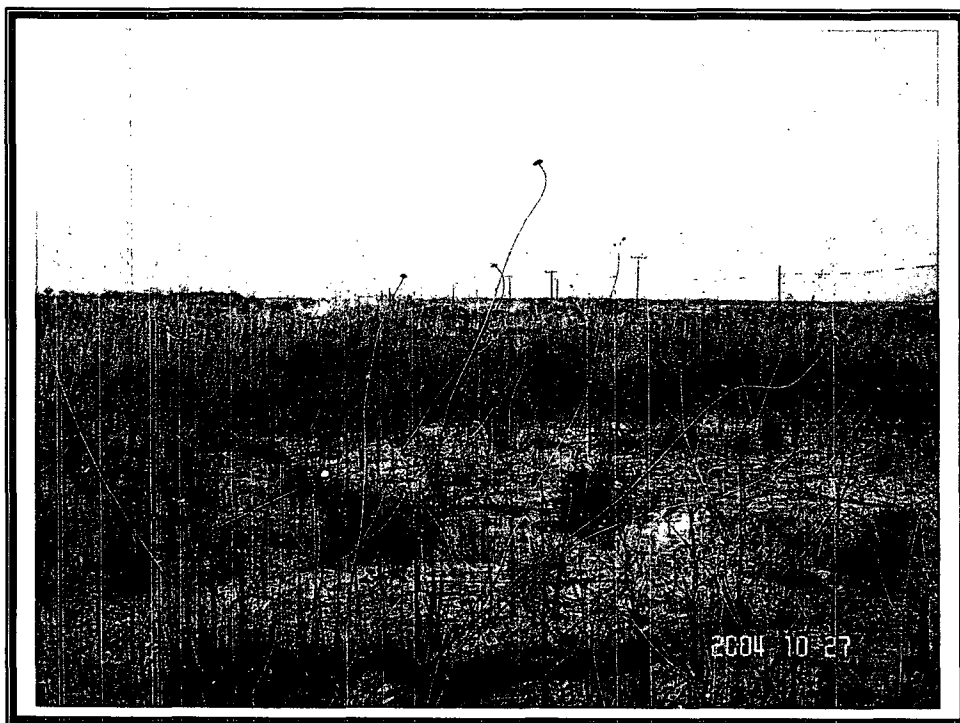
SB = sample point  
 SB = SB1 / Basin

# Appendix III

# MCA Battery 1 Trunkline Leak



MCA Battery 1 Trunkline Leak





# MCA Battery 1 Trunkline Leak

