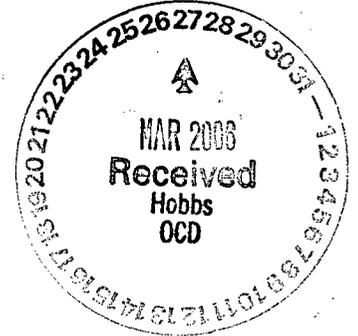




APPROVED 3.27.06  
SA

# CONOCOPHILLIPS

## MCA UNIT 2 - F PRODUCTION HEADER LEAK (04-13-05)



### 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)

OCTOBER 6, 2005

PREPARED FOR:

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

Conoco Phillips 217817  
facility - #PAC0609339814  
incident - #PAC0609340042

application - #PAC0609340311

# ConocoPhillips

## MCA Unit 2 – F Production Header Leak

### 4-13-05

#### 1.0 INTRODUCTION

The subject site is located south of Maljamar, New Mexico in Unit Letter J, of Section 27, Township 17 South, and Range 32 East. The site consists of undeveloped rangeland and petroleum production facilities. On April 13, 2005, a 3" steel flowline connection leaked approximately 4bbl of oil and 41 bbls of water with approximately 3.5 bbls of oil and 31.5 bbls of water being recovered.

#### 2.0 SITE CHARACTERIZATION

The leak area measures approximately 54 feet by 90 feet at the center, 84 feet by 60 feet on the west side, with a smaller sprayed area on the east side that measures approximately 20 feet by 25 feet. A sketch of the leak area including the sample points can be reviewed in Appendix II of this report. Site photographs can be viewed in Appendix III of this report. The surface soil is red sand and caliche. 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 August 31, 2005, BBC personnel conducted an investigation 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 10 feet. Four samples were taken from the soil boring; one each at one foot, three feet, five feet, and ten feet. The samples were taken to Cardinal Laboratories for analysis. Laboratory analysis for SB1 @ 1' is: GRO – non-detect, DRO – 937 ppm, Chlorides 768 ppm, Benzene – non-detect, Toluene – non-detect, Ethyl Benzene – non-detect, Total Xylenes – non-detect. Laboratory analysis for SB1 @ 3' is: Chlorides 736 ppm. Laboratory analysis for SB1 @ 5' is: Chlorides 768 ppm. Laboratory analysis for SB1 @ 10' is: GRO – non-detect, DRO – 82.9 ppm, Chlorides 192 ppm, Benzene – non-detect, Toluene – non-detect, Ethyl Benzene – non-detect, Total Xylenes – non-detect. Laboratory analytical results for this sampling event can be reviewed in Appendix I of this report. The location of the soil boring and other sample points can be viewed on the site diagram in Appendix II of this report.

Two near surface samples were also taken; one from the east end of the leak area and one from the west end of the leak area. The samples were taken at a depth of one foot and were taken to Cardinal Laboratories for analysis.

Laboratory analysis for SP1@1' is: GRO – non-detect, DRO – 138 ppm, Chlorides 1136 ppm, Benzene – non-detect, Toluene – non-detect, Ethyl Benzene – non-detect, Total Xylenes – non-detect. Laboratory analysis for SP2@1' is: GRO – non-detect, DRO – 188 ppm, Chlorides 304 ppm, Benzene – non-detect, Toluene – non-detect, Ethyl Benzene – non-detect, Total Xylenes – non-detect. 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 that TPH and BTEX concentrations are below OCD guidelines for areas where depth to groundwater is greater than 50 feet. Taking into consideration that the depth to groundwater in the area is approximately 90 feet, the evidence indicates that migration of chlorides to groundwater is unlikely. Therefore, it is recommended that surface remediation be conducted at this site. This remediation would consist of plowing and discing the site to blend and aerate the soil. Soil amendments including gypsum, fertilizer, and/or humate, would be applied to promote revegetation. The site would be reseeded with BLM seed mix in the appropriate areas and the site would be closed.

**ConocoPhillips  
MCA 2F Production Header**

		SB1-1'	SB1-3'	SB1-5'	SB1-10'	BKGRND @ 1'	SP1-1'	SP2-1'
Analyte	Method	Sample : H10139-1	Sample : H10139-2	Sample : H10139-3	Sample : H10139-4	Sample : H10138-1	Sample : H10138-2	Sample : H10138-3
		8/31/2005	8/31/2005	8/31/2005	8/31/2005	8/31/2005	8/31/2005	8/31/2005
		mg/Kg						
Chloride	4500-CIB	768	736	560	192	64	1136	304
GRO	EPA SW-846 8015 M	<10.0			<10.0	<10.0	<10.0	<10.0
DRO	EPA SW-846 8015 M	937			82.9	<10.0	138	188
Benzene	SW-846 8260	<0.005			<0.005	<0.005	<0.005	<0.005
Toluene	SW-846 8260	<0.005			<0.005	<0.005	<0.005	<0.005
Ethylbenzene	SW-846 8260	<0.005			<0.005	<0.005	<0.005	0.007
Total Xylenes	SW-846 8260	<0.015			<0.015	<0.015	<0.015	<0.015

# Appendix I





# 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: 08/31/05  
Reporting Date: 09/02/05  
Project Owner: CONOCO PHILLIPS  
Project Name: MCA 2F PRODUCTION HEADER  
Project Location: MALJAMAR, NM

Sampling Date: 08/31/05  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: BC

LAB NUMBER	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)
------------	-----------	--	--	--------------------	--------------------	-----------------------------	-----------------------------

ANALYSIS DATE:	09/01/05	09/01/05	09/01/05	09/01/05	09/01/05	09/01/05	09/01/05
H10139-1 SB 1 @ 1'	<10.0	937	<0.005	<0.005	<0.005	<0.005	<0.015
H10139-4 SB 1 @ 10'	<10.0	82.9	<0.005	<0.005	<0.005	<0.005	<0.015
Quality Control	806	824	0.109	0.096	0.103	0.320	0.320
True Value QC	800	800	0.100	0.100	0.100	0.300	0.300
% Recovery	101	103	109.0	96.4	103	107	107
Relative Percent Difference	0.5	5.2	17.3	5.0	3.1	2.9	2.9

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

*Burgess J. A. Cooke*  
Burgess J. A. Cooke, Ph. D.

*9/2/05*  
Date

H10139A.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.







# 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: 08/31/05  
Reporting Date: 09/02/05  
Project Owner: CONOCO PHILLIPS  
Project Name: MCA 2F PRODUCTION HEADER  
Project Location: MALJAMAR, NM

Sampling Date: 08/31/05  
Sample Type: SOIL  
Sample Condition: COOL & INTACT  
Sample Received By: AH  
Analyzed By: BC

LAB NUMBER	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)
------------	-----------	--	--	--------------------	--------------------	-----------------------------	-----------------------------

ANALYSIS DATE:	09/01/05	09/01/05	09/01/05	09/01/05	09/01/05	09/01/05
H10138-1 BKGRD @ 1'	<10.0	<10.0	<0.005	<0.005	<0.005	<0.015
H10138-2 SP 1 @ 1'	<10.0	138	<0.005	<0.005	<0.005	<0.015
H10138-3 SP 2 @ 1'	<10.0	188	<0.005	<0.005	0.007	<0.015
Quality Control	806	824	0.109	0.096	0.103	0.320
True Value QC	800	800	0.100	0.100	0.100	0.300
% Recovery	101	103	109.0	96.4	103	107
Relative Percent Difference	0.5	5.2	17.3	5.0	3.1	2.9

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

  
Burgess J. A. Cooke, Ph. D.

9/2/05  
Date

H10138A.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

ARDINAL 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: <b>RRC Internet coal, Inc.</b>		P.O. #:		ANALYSIS REQUEST	
Project Manager: <b>Cliff Brunson</b>		Company:			
Address: <b>1324 W. Marland</b>		Attn: <b>SAME</b>			
City: <b>Hobbs</b>		State: <b>NM</b>		Zip: <b>88240</b>	
Phone #: <b>(505) 397-6388</b>		Fax #: <b>(505) 397-0397</b>			
Project #: <b>NA</b>		Project Owner: <b>ConocoPhillips</b>			
Project Name: <b>MCA 2F Production Header</b>		Project Location: <b>Maljeanar NM</b>			
Sampler Name: <b>Ken Swinney</b>		Phone #:			
Fax #:		Zip:			
FOR LAB USE ONLY		PRESERVATION		SAMPLING	
Lab I.D. <b>Sample I.D.</b>		ACID/BASE:		DATE	
H10138-0kgnd@1		OTHER:		TIME	
-2 SP@1		ICE / COOL		8-31-05 13:13	
-3 SP2@1		OTHER:		8-31-05 13:18	
		SLUDGE		8-31-05 13:22	
		CRUDE OIL			
		WASTEWATER			
		GROUNDWATER			
		SOIL			
		# CONTAINERS			
		(GRAB OR C)OMP.			

PLEASE NOTE: Samples will be analyzed for any contaminants listed on the attached list. The amount paid by the client for the analysis of each sample must be paid in advance. All other costs (transportation, handling, etc.) are the responsibility of the client. In no event will Cardinal Laboratories be liable for transportation or handling costs. Cardinal Laboratories is not responsible for the safety of samples or the safety of personnel. Cardinal Laboratories is not responsible for the safety of personnel. Cardinal Laboratories is not responsible for the safety of personnel. Cardinal Laboratories is not responsible for the safety of personnel.

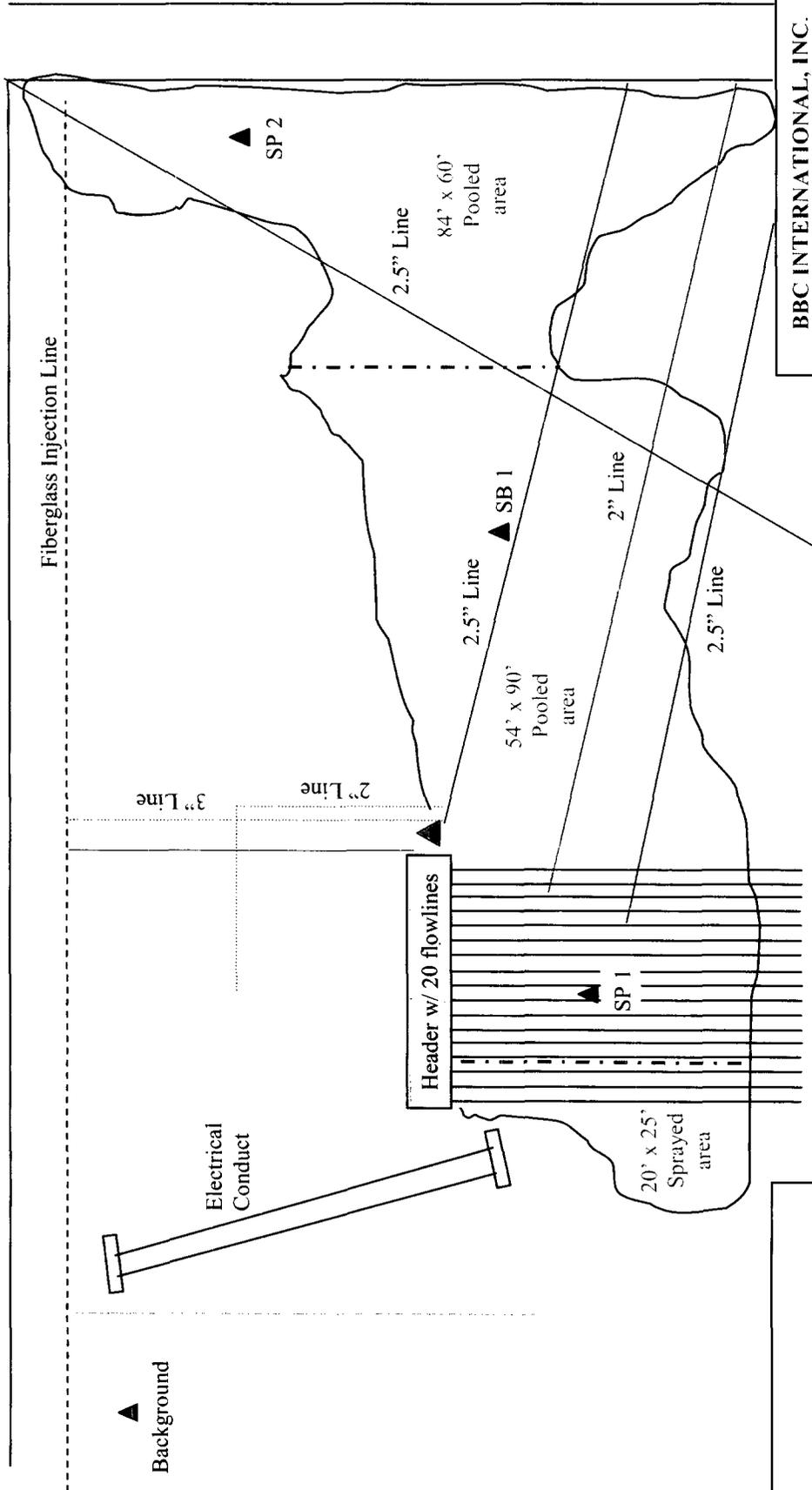
TERMS AND CONDITIONS: Invoices will be charged on 15 accounts terms that 30 days past due at the rate of 2.5% per month from the original date of invoice, and at each of collection, including attorney's fees.

Received By: **Jeff Onnelas**  
 Date: **8-31-05**  
 Time: **16:15**  
 Received By: (Lab Staff)  
**Amy Hill**  
 Date: **8-31-05**  
 Time: **16:20**

Sampler Requisitioned: **Ken Swinney**  
 Requisitioned By: **Jeff Onnelas**  
 Delivered By: (Circle One)  
 Driver  Bus  Other  
 Checked By: (Initials)  
**AO**

# Appendix II

# CONOCOPHILLIPS MCA UNIT 2 – F PRODUCTION HEADER



▲ Background

### LEGEND

▲ Leak point

▲ Sample Point

BBC INTERNATIONAL, INC.

CONOCOPHILLIPS  
PEAK VIEW BATTERY

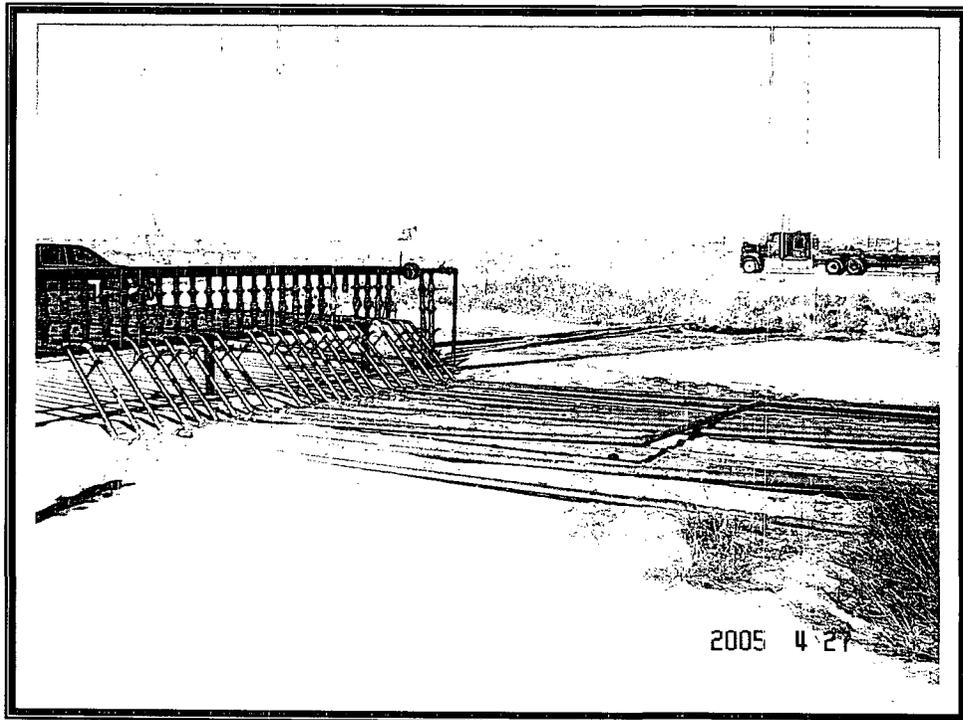
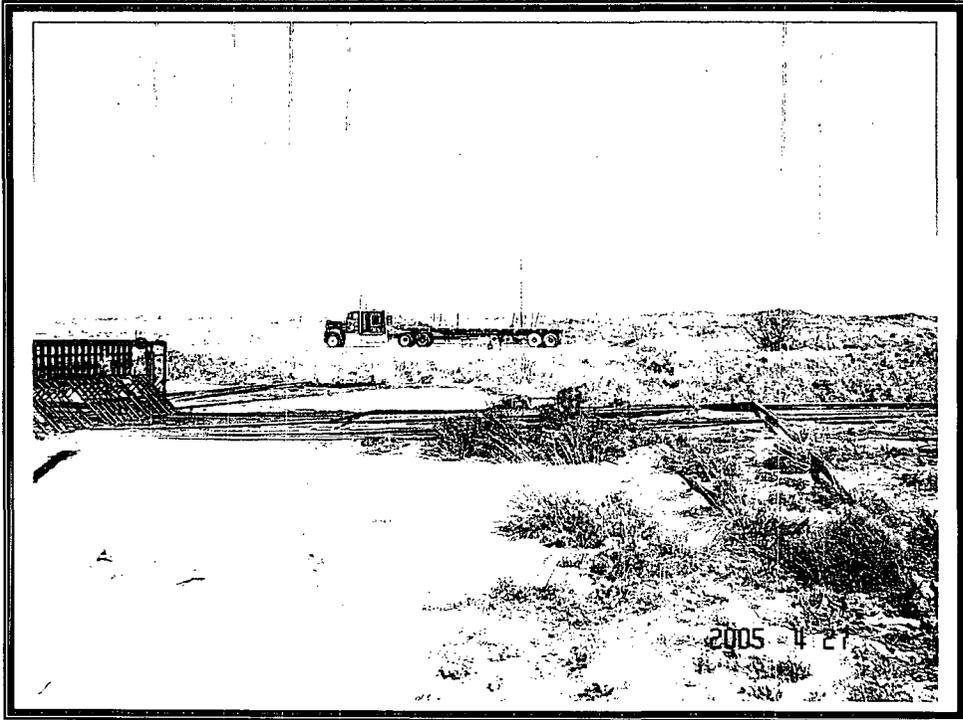
Date: 2-10-05

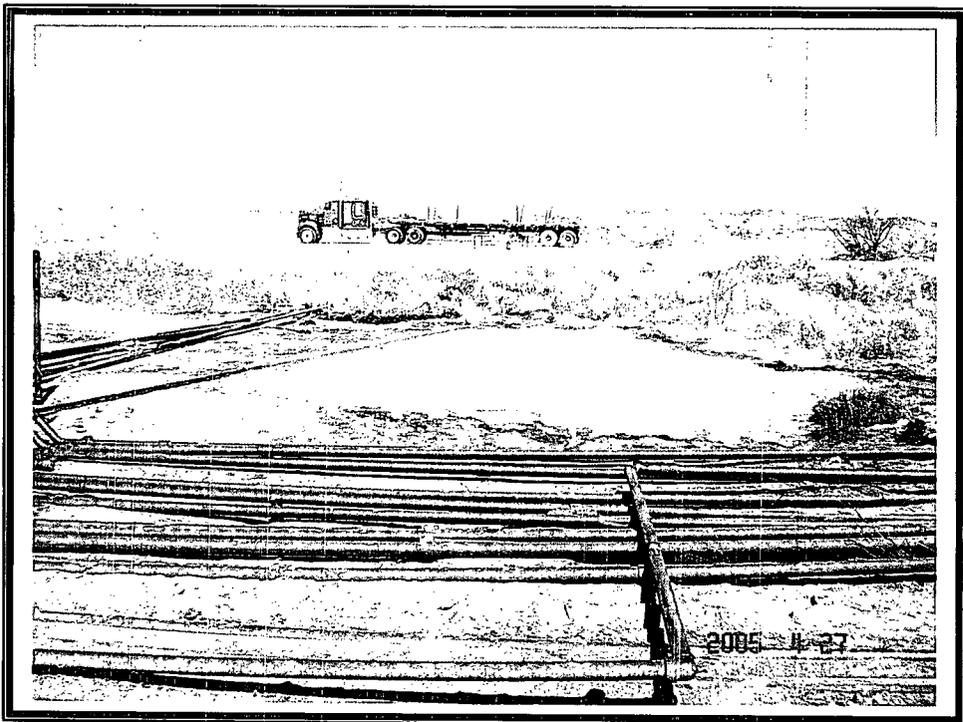
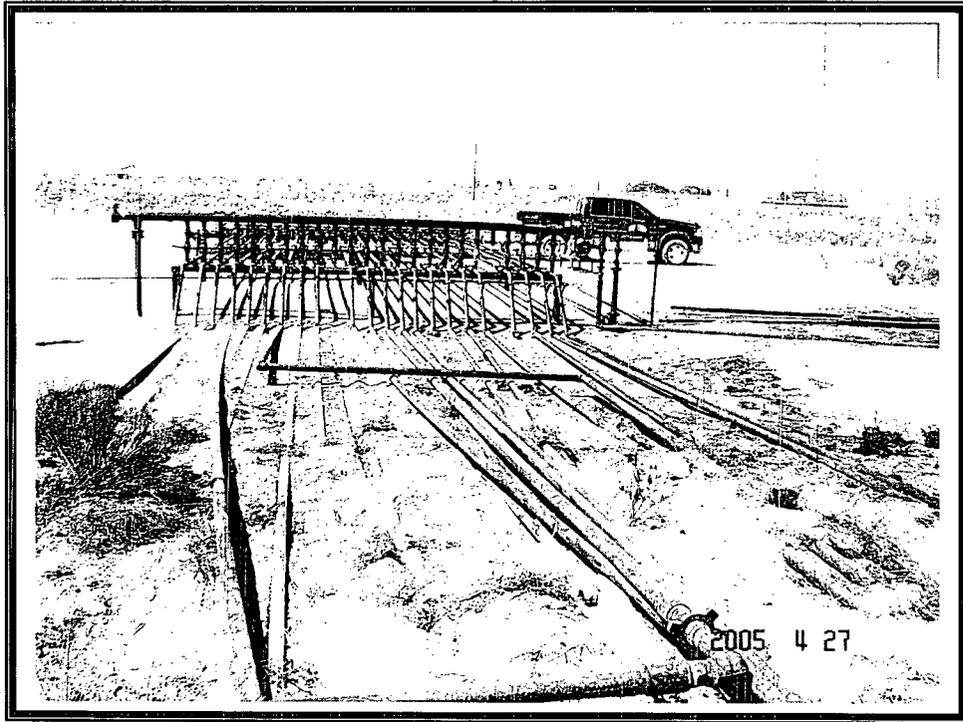
Drawn By: JG

Disk: Sheet 1 of 1 Sheets

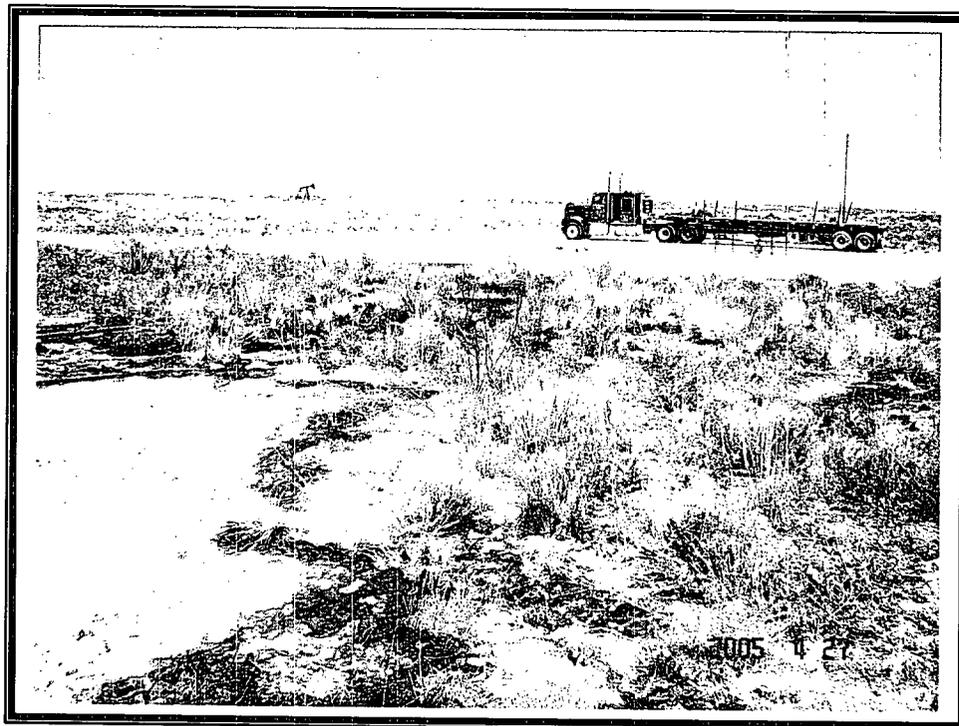
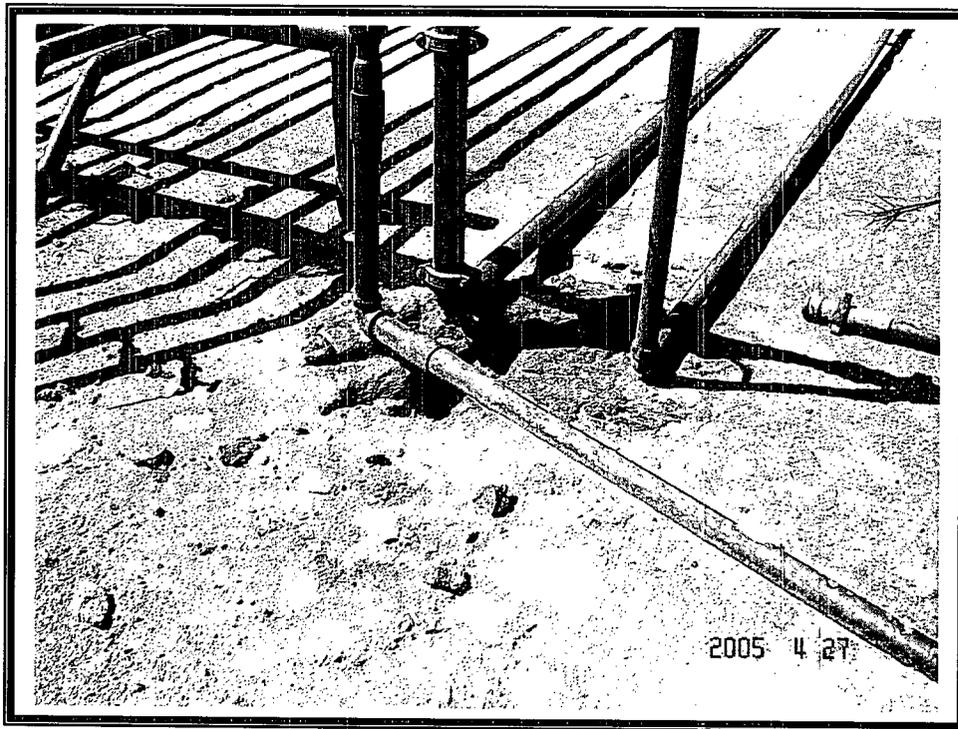
Scale: Not to Scale File Name

# Appendix III

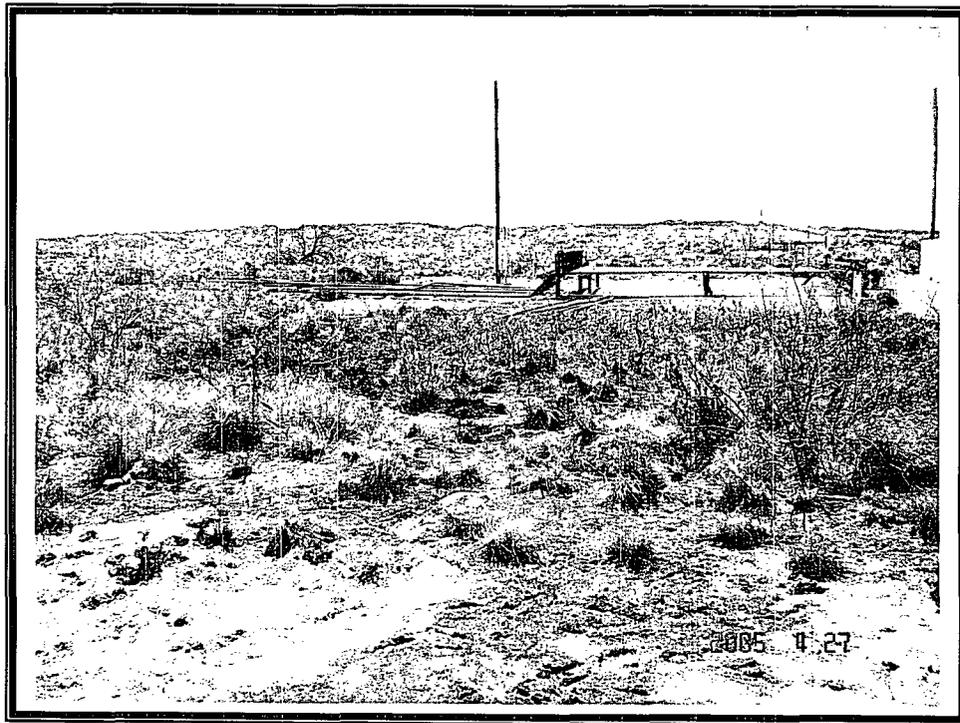


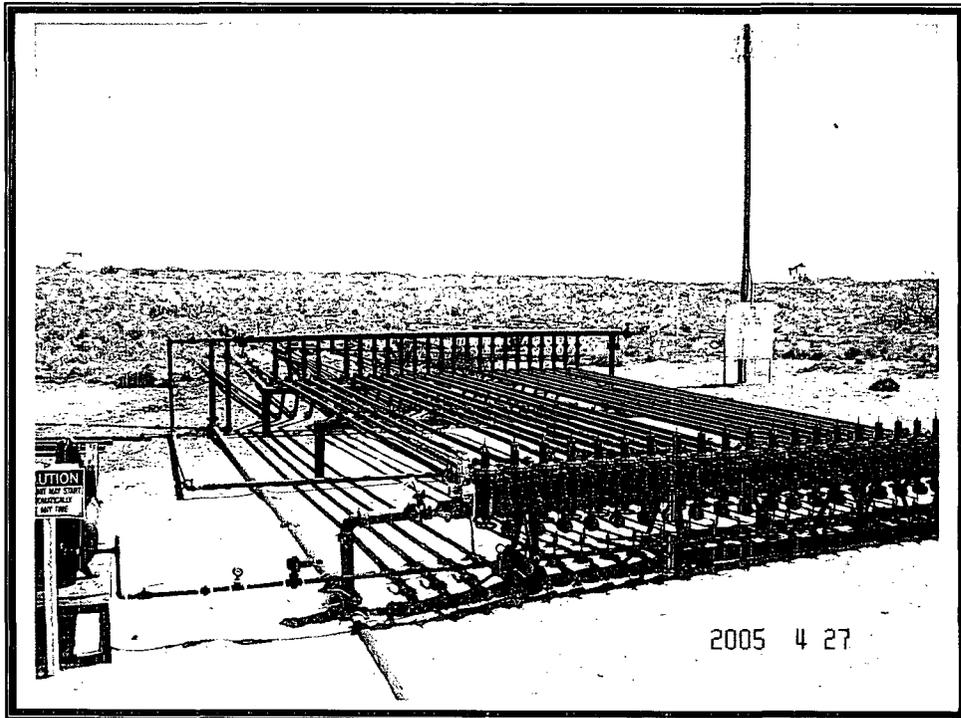


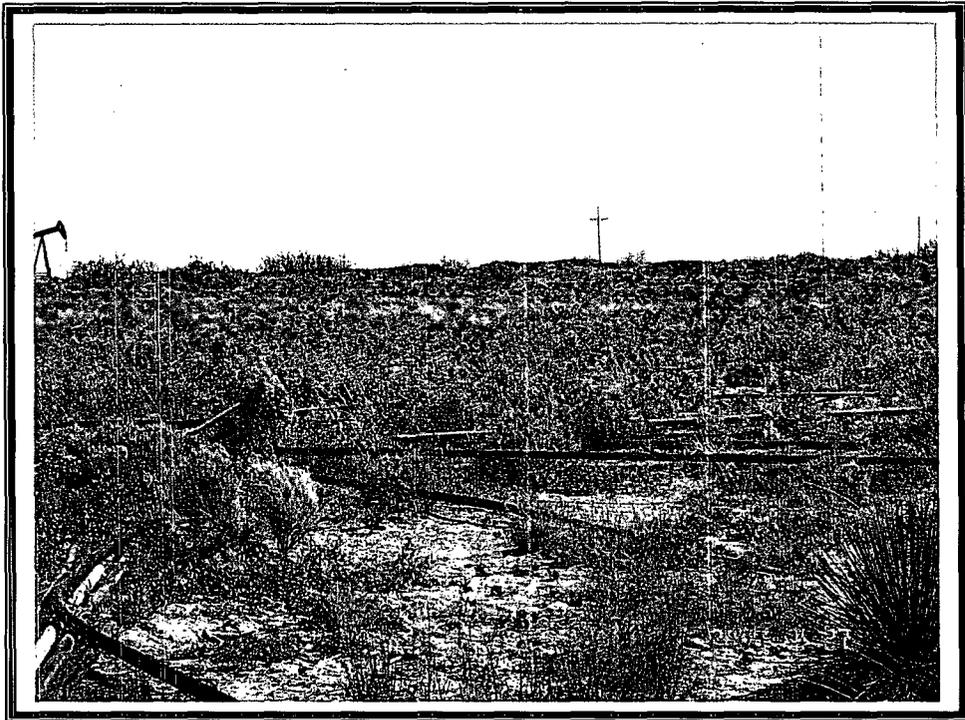
MCA Unit 2 F Production Header  
4-27-05



MCA Unit 2 F Production Header  
4-27-05







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 79762-5917</b>	Telephone No. <b>505.391.5569</b>
Facility Name <b>MCA Unit 2 - F Production Header</b>	Facility Type <b>Oil and Gas</b>

Surface Owner <b>BLM</b>	Mineral Owner <b>BLM</b>	Lease No <b>LC - 057210</b>
--------------------------	--------------------------	-----------------------------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<b>J</b>	<b>27</b>	<b>17S</b>	<b>32E</b>					<b>Lea Co.</b>

Latitude **32.80373N** Longitude **103.75266W**

**NATURE OF RELEASE**

Type of Release <b>Oil &amp; Produced Water</b>	Volume of Release <b>45 bbl (4 oil, 41 water)</b>	Volume Recovered <b>(3.5 oil, 31.5 water)</b>
Source of Release <b>3" bypass line on 2 - F production header</b>	Date and Hour of Occurrence <b>04/13/2005 0430hrs</b>	Date and Hour of Discovery <b>04/13/2005 0700hrs</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, NMOCD</b>	
By Whom? <b>Steven W. Cross</b>	Date and Hour <b>04/13/2005 1500hrs</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.\*  
**There was a hole in the 90 ell which was caused by internal corrosion. The spill site will be delineated and a remediation plan will be submitted to the NMOCD & BLM for approval.**

Describe Area Affected and Cleanup Action Taken.\*  
**The spill area covered ~ 20'X25' sprayed area, ~ 54'X90' pooled area, 84'X60' pooled area, all on dry sandy pasture with no cows present. Picked up the free fluid with vacuum truck.**

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>	Approval Date:
Title: <b>SHEaR Specialist</b>	Expiration Date:
E-mail Address: <b>ken.n.andersen@conocophillips.com</b>	Conditions of Approval:
Date: <b>04/18/2005</b> Phone: <b>505.391.5569</b>	Attached <input type="checkbox"/>

- Attach Additional Sheets If Necessary

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 79762-5917</b>	Telephone No. <b>505.391.5569</b>
Facility Name <b>MCA Unit 2 - F Production Header</b>	Facility Type <b>Oil and Gas</b>

Surface Owner <b>BLM</b>	Mineral Owner <b>BLM</b>	Lease No <b>LC - 057210</b>
--------------------------	--------------------------	-----------------------------

**LOCATION OF RELEASE**

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
<b>J</b>	<b>27</b>	<b>17S</b>	<b>32E</b>					<b>Lea Co.</b>

Latitude **32.80373N** Longitude **103.75266W**

**NATURE OF RELEASE**

Type of Release <b>Oil &amp; Produced Water</b>	Volume of Release <b>45 bbl (4 oil, 41 water)</b>	Volume Recovered <b>(3.5 oil, 31.5 water)</b>
Source of Release <b>3" bypass line on 2 - F production header</b>	Date and Hour of Occurrence <b>04/13/2005 0430hrs</b>	Date and Hour of Discovery <b>04/13/2005 0700hrs</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, NMOCD</b>	
By Whom? <b>Steven W. Cross</b>	Date and Hour <b>04/13/2005 1500hrs</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.\*

**There was a hole in the 90 ell which was caused by internal corrosion. The spill site will be delineated and a remediation plan will be submitted to the NMOCD & BLM for approval.**

Describe Area Affected and Cleanup Action Taken.\*

**The spill area covered ~ 20'X25' sprayed area, ~ 54'X90' pooled area, 84'X60' pooled area, all on dry sandy pasture with no cows present. Picked up the free fluid with vacuum truck.**

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>		Approval Date:	Expiration Date:
Title: <b>SHEaR Specialist</b>		Conditions of Approval:	
E-mail Address: <b>ken.n.andersen@conocophillips.com</b>		Attached <input type="checkbox"/>	
Date: <b>04/18/2005</b>	Phone: <b>505.391.5569</b>		

- Attach Additional Sheets If Necessary