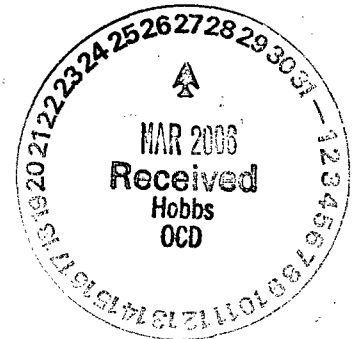




APPROVED 3.27.06
SA

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
WEBSITE: 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	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Chloride	4500-ClB	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



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

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

Analysis Date: 09/02/05
Sampling Date: 08/31/05
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/Kg)
H10139-1	SB 1 @ 1'	768
H10139-2	SB 1 @ 3'	736
H10139-3	SB 1 @ 5'	560
H10139-4	SB 1 @ 10'	192
Quality Control		1000
True Value QC		1000
% Recovery		100
Relative Percent Difference		2.0

4500-CIB

Note: Analyses performed on 1:4 w:v aqueous extracts.

Amy Hill
Chemist

9/2/05
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.



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

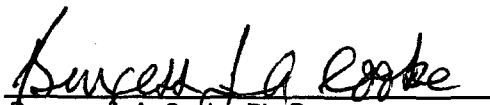
Receiving Date: 08/31/05
Reporting Date: 09/02/05
Project Owner: CONOCO PHILLIPS
Project Name: MCA 2F PRODUCTION HEADER
Project Location: MALJAMAR, NM

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 ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (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
H10139-1	SB 1 @ 1'	<10.0	937	<0.005	<0.005	<0.005	<0.015
H10139-4	SB 1 @ 10'	<10.0	82.9	<0.005	<0.005	<0.005	<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 A. Cooke, Ph. D.

9/2/05
Date

H10139A.XLS

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(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page 7 of 1

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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

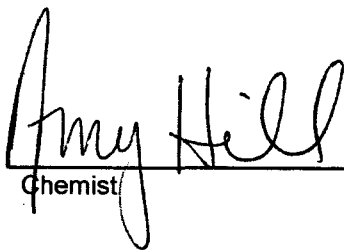
Analysis Date: 09/02/05
Sampling Date: 08/31/05
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: AH
Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/Kg)
H10138-1	BKGRND @1'	64
H10138-2	SP1 @1'	1136
H10138-3	SP2 @1'	304
Quality Control		1000
True Value QC		1000
% Recovery		100
Relative Percent Difference		2.0

METHOD: Standard Methods

4500-Cl⁻B

Note: Analyses performed on 1:4 w:v aqueous extracts.


Chemist

9/2/05
Date

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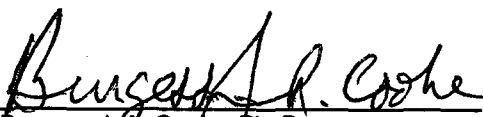
ANALYTICAL RESULTS FOR
BBC INTERNATIONAL, INC.
ATTN: CLIFF BRUNSON
P.O. BOX 805
HOBBS, NM 88241
FAX TO: (505) 397-0397

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 ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (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

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(915) 673-7001 Fax (915) 673-7020 (505) 393-2326 Fax (505) 393-2476

Page 1 of 1

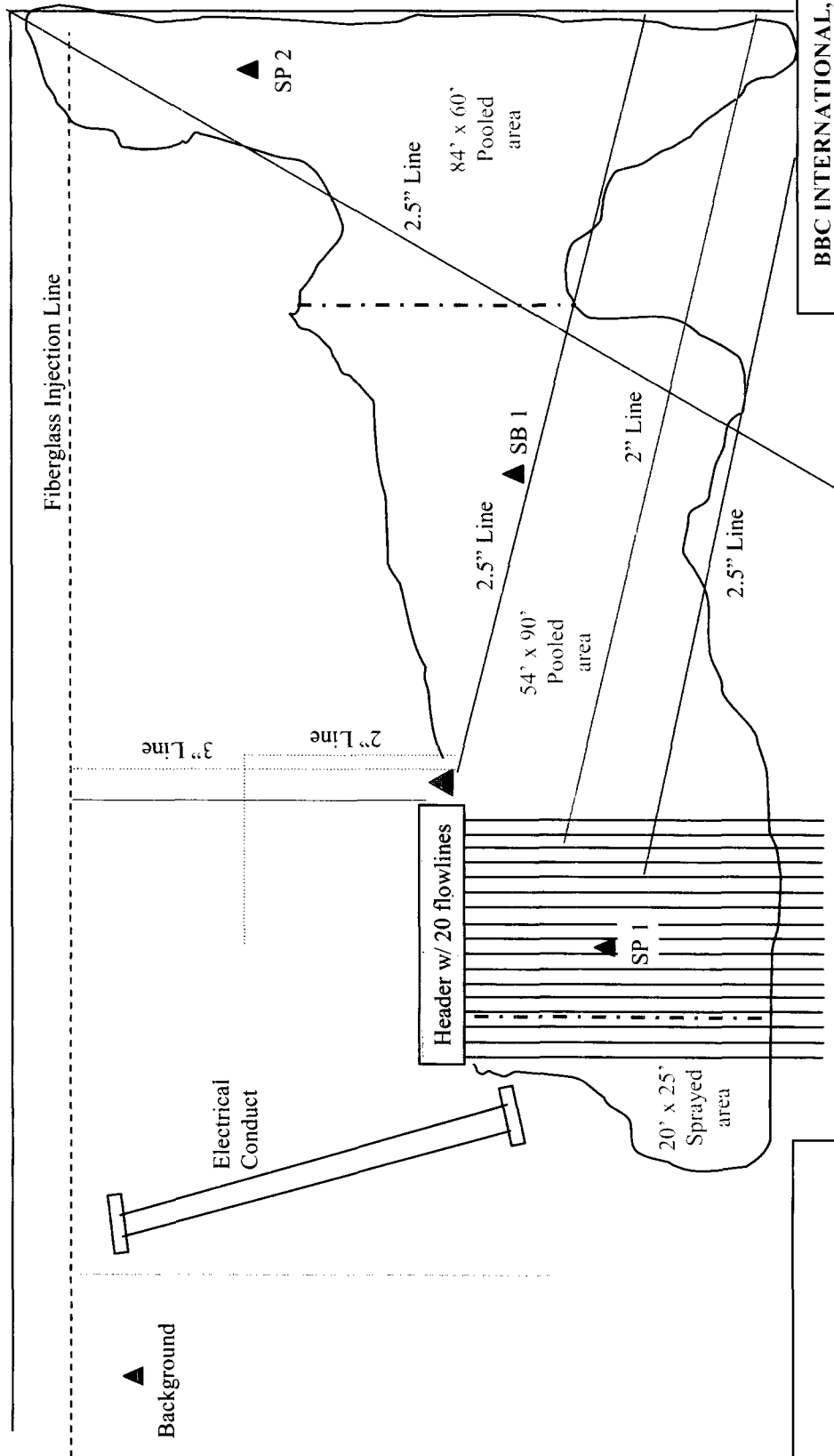
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Appendix II

CONOCOPHILLIPS

MCA UNIT 2 – F PRODUCTION HEADER



LEGEND

- ▲ Leak point
- ▲ Sample Point

BBC INTERNATIONAL, INC.

CONOCOPHILLIPS
PEAK VIEW BATTERY

Date: 2-10-05

Drawn By: JG

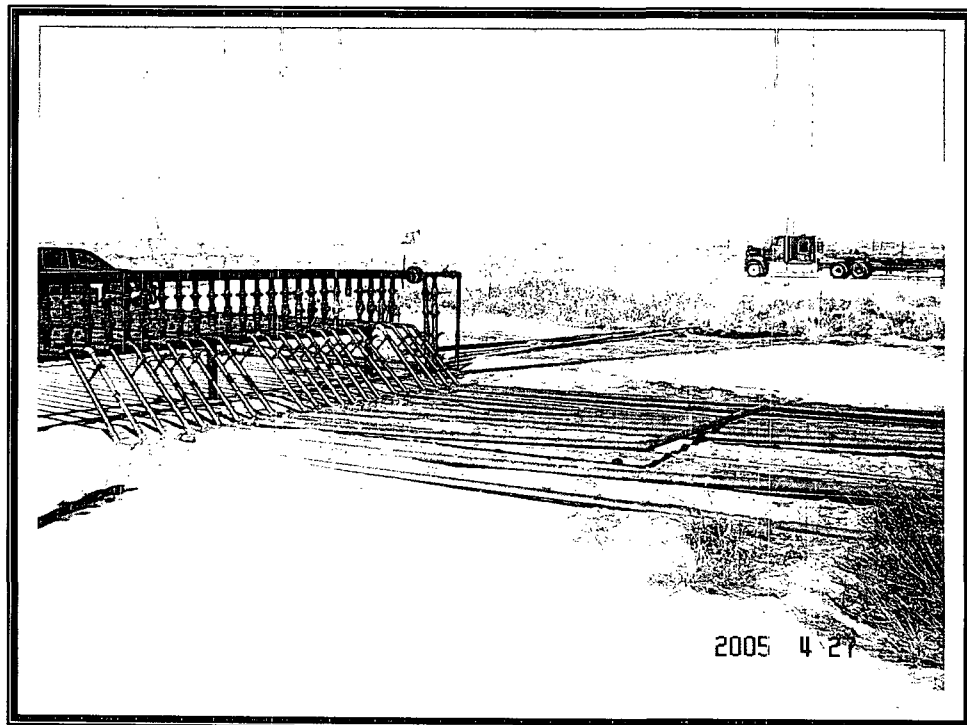
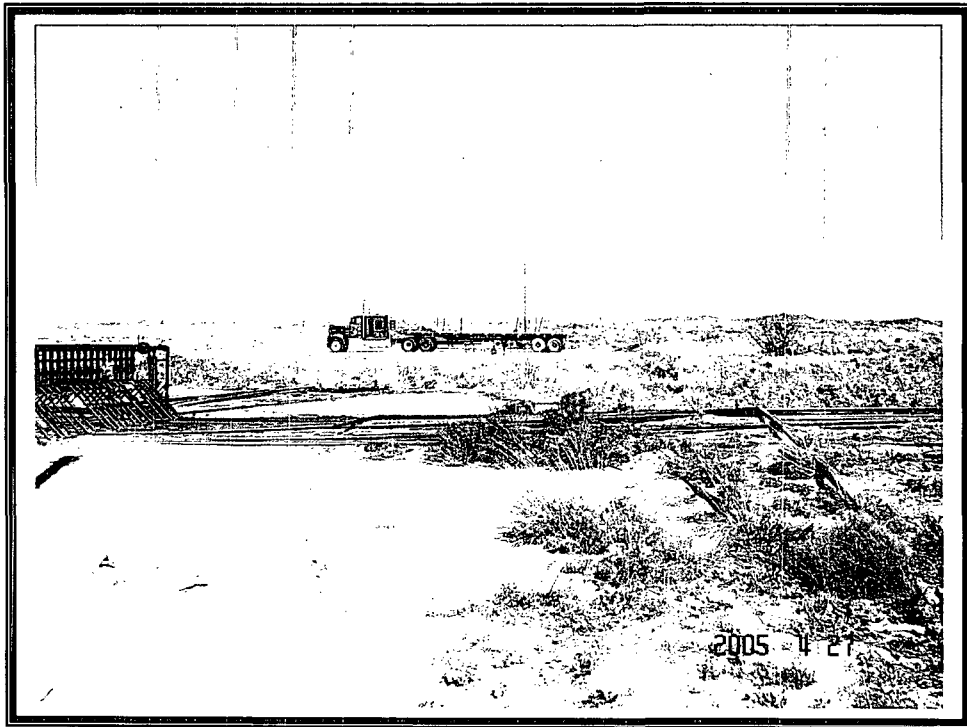
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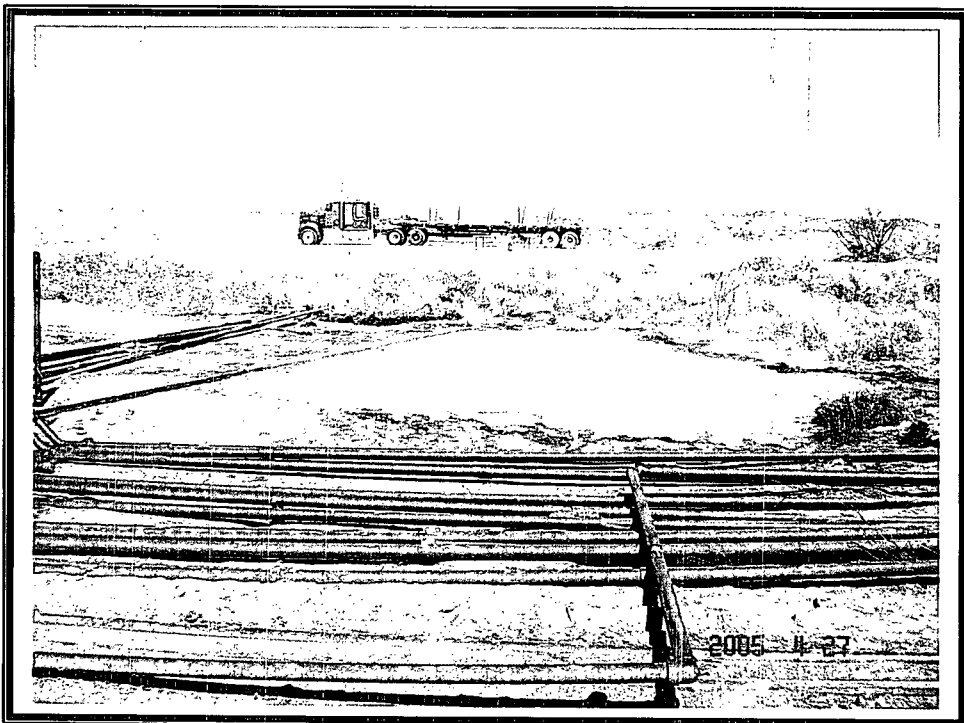
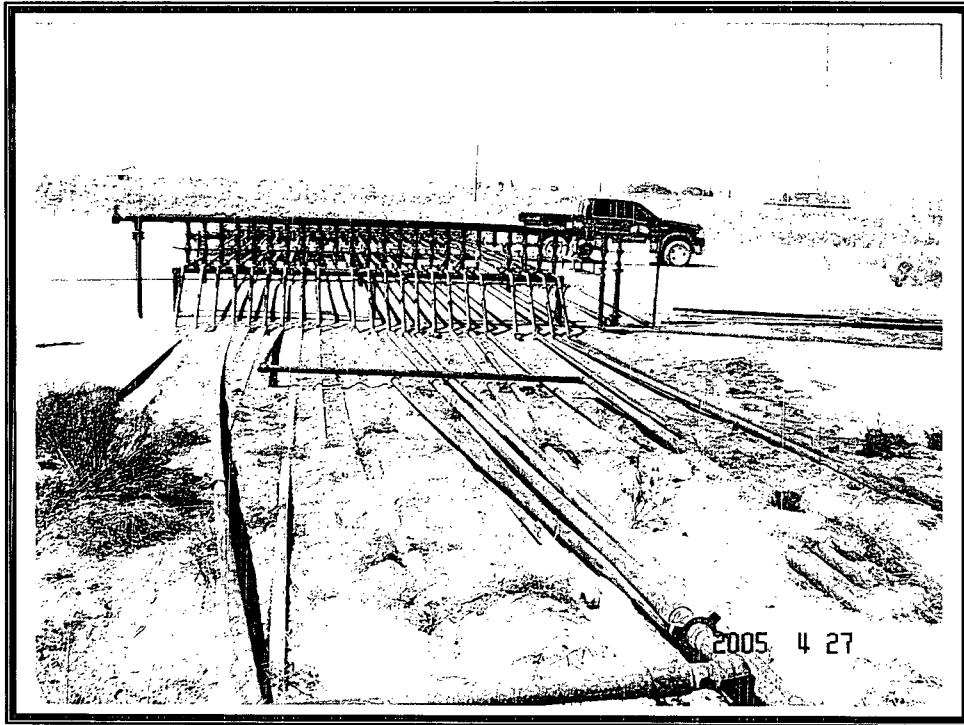
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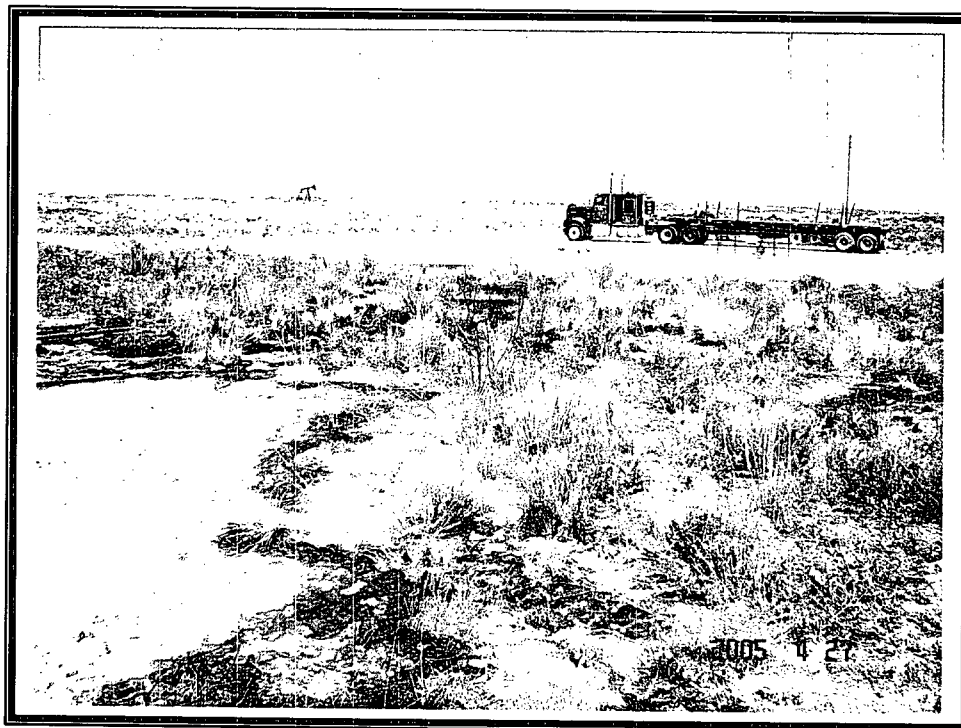
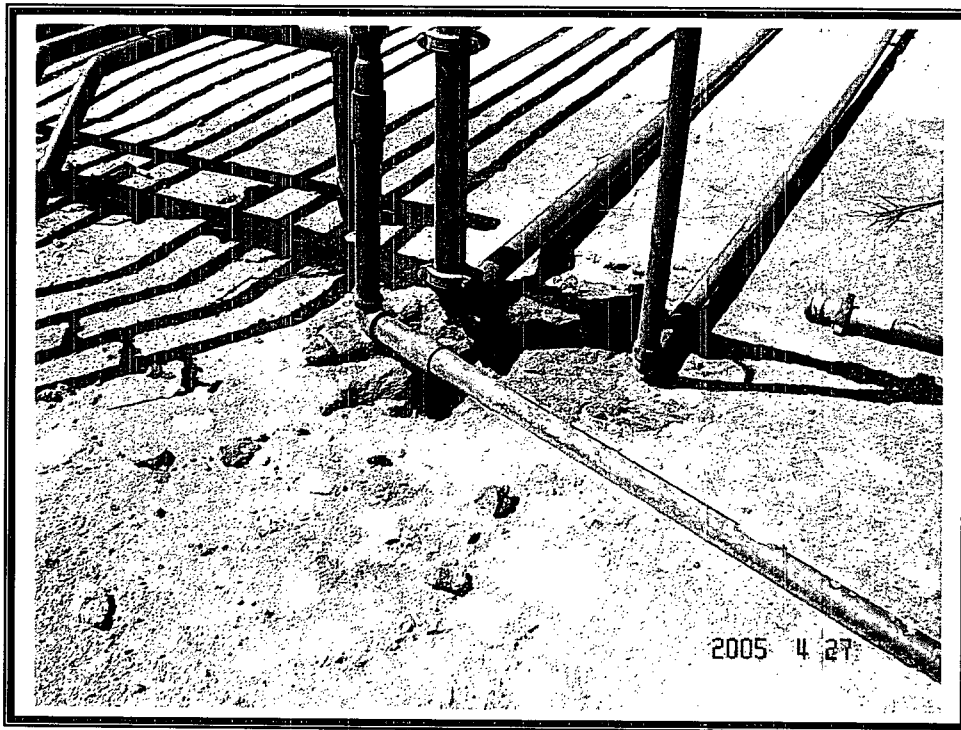
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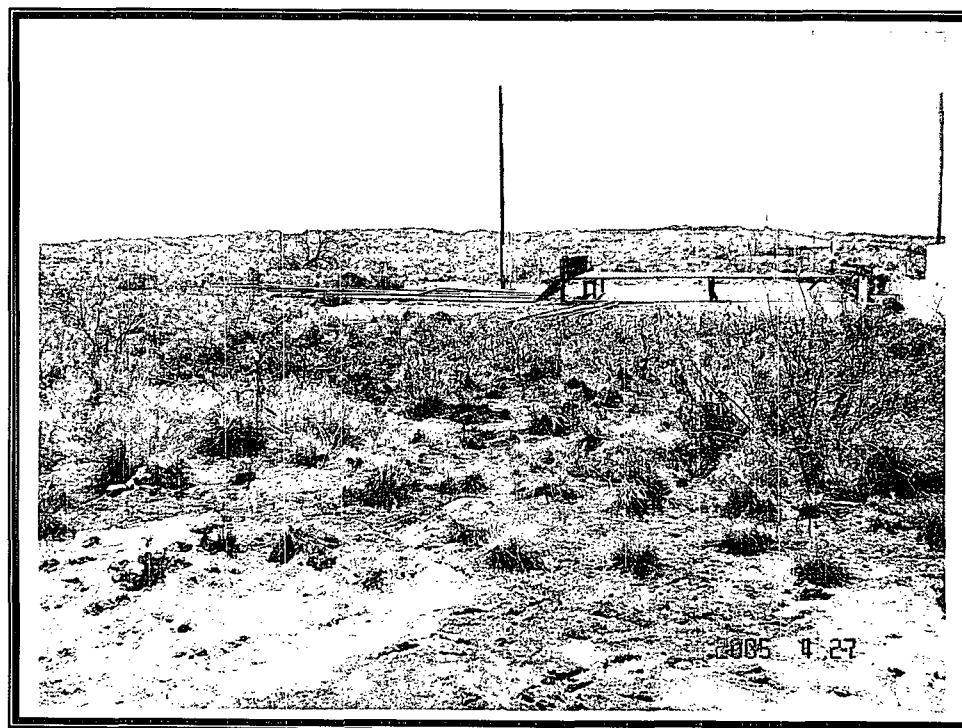
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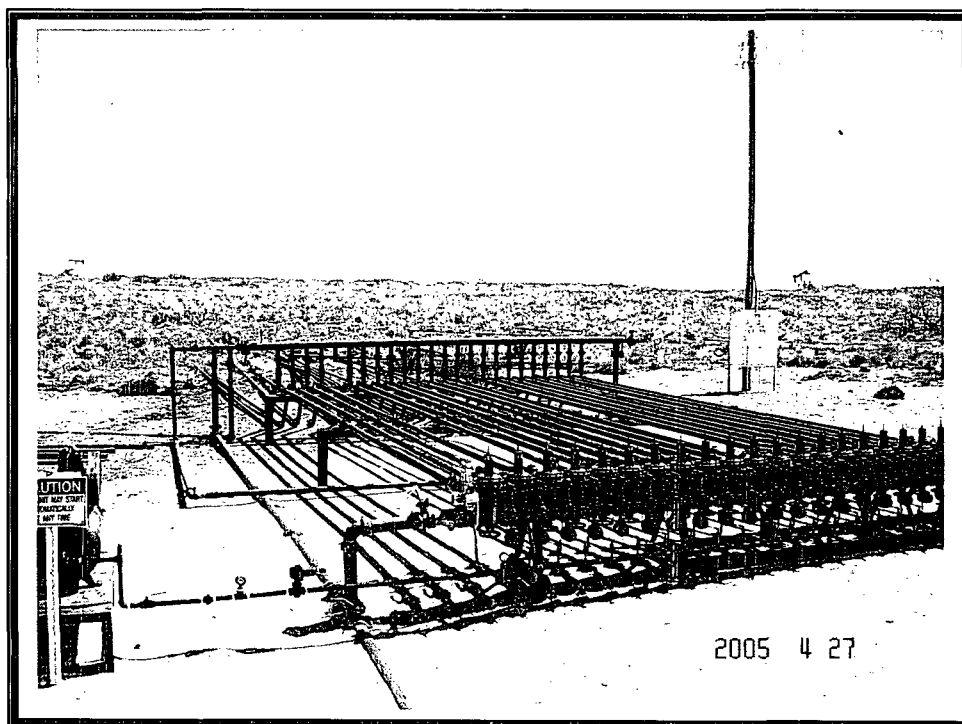
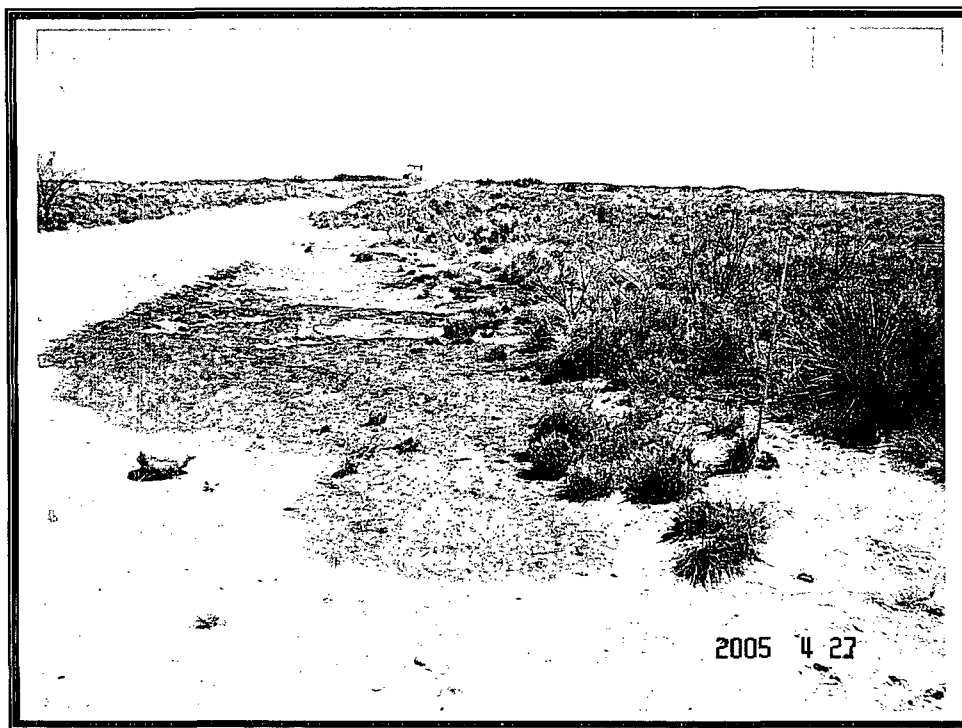


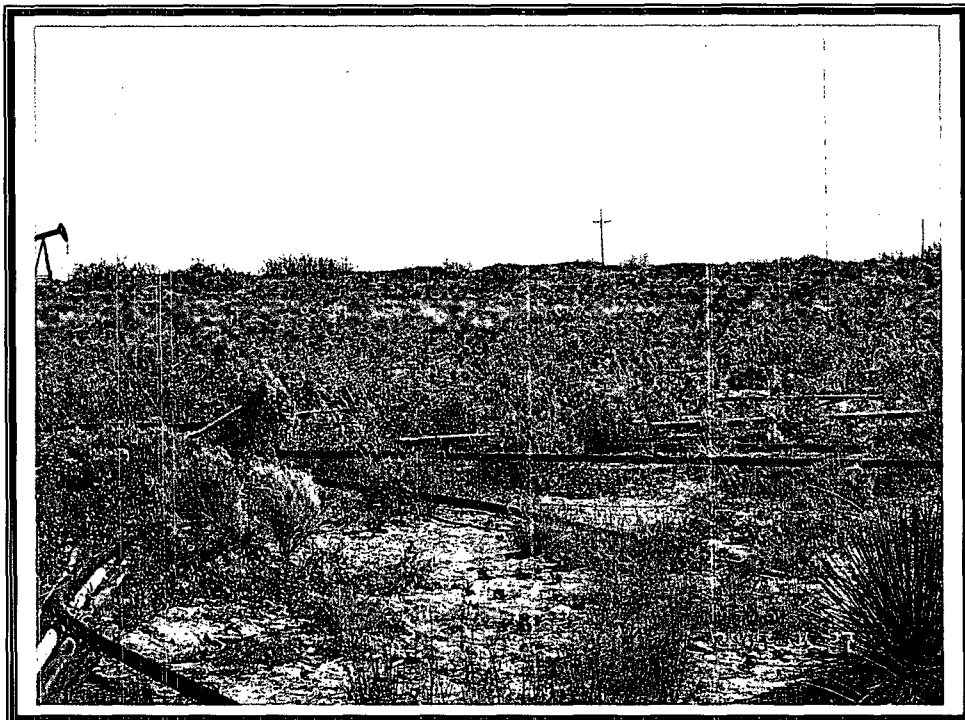


MCA Unit 2 F Production Header
4-27-05









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 ConocoPhillips Company	Contact Kenneth N. Andersen
Address 4001 Penbrook, Odessa, TX 79762-5917	Telephone No. 505.391.5569
Facility Name MCA Unit 2 - F Production Header	Facility Type Oil and Gas

Surface Owner BLM	Mineral Owner BLM	Lease No LC - 057210
--------------------------	--------------------------	-----------------------------

LOCATION OF RELEASE

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

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

NATURE OF RELEASE

Type of Release Oil & Produced Water	Volume of Release 45 bbl (4 oil, 41 water)	Volume Recovered (3.5 oil, 31.5 water)
Source of Release 3" bypass line on 2 - F production header	Date and Hour of Occurrence 04/13/2005 0430hrs	Date and Hour of Discovery 04/13/2005 0700hrs
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Silvia Dickey, NMOCD	
By Whom? Steven W. Cross	Date and Hour 04/13/2005 1500hrs	
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.

Signature:		<u>OIL CONSERVATION DIVISION</u>	
		Approved by District Supervisor:	
Printed Name: Kenneth N Andersen		Approval Date:	Expiration Date:
Title: SHEaR Specialist		Conditions of Approval:	
E-mail Address: ken.n.andersen@conocophillips.com		Attached <input type="checkbox"/>	
Date: 04/18/2005 Phone: 505.391.5569			

- 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
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Form C-141
Revised October 10, 2003

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side of form

Release Notification and Corrective Action

OPERATOR

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Address 4001 Penbrook, Odessa, TX 79762-5917	Telephone No. 505.391.5569	
Facility Name MCA Unit 2 - F Production Header	Facility Type Oil and Gas	
Surface Owner BLM	Mineral Owner BLM	Lease No LC - 057210

LOCATION OF RELEASE

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-------------------------	----------------------	------------------------	---------------------	---------------	------------------	---------------	----------------	--------------------------

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Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Silvia Dickey, NMOCD		
By Whom? Steven W. Cross	Date and Hour 04/13/2005 1500hrs		
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.			
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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: Kenneth N Andersen		Approved by District Supervisor:	
Title: SHEaR Specialist		Approval Date:	Expiration Date:
E-mail Address: ken.n.andersen@conocophillips.com		Conditions of Approval:	Attached <input type="checkbox"/>
Date: 04/18/2005 Phone: 505.391.5569			

- Attach Additional Sheets If Necessary