



CONOCOPHILLIPS

GLORIETTA EAST WELL # 01-02 12-23-04

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
WEBSITE: www.bbcinternational.com

MAY 3, 2005

PREPARED FOR:

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

ConocoPhillips 217817
incident - NPAC 0605528100
application - PPAC 0605528322

ConocoPhillips

Glorietta East Well # 01-02

12-23-04

1.0 INTRODUCTION

The subject site is located east of Buckeye, New Mexico in Unit Letter K, of Section 28, Township 17 South, and Range 35 East, Lea County, N.M. The site consists of undeveloped rangeland and petroleum production facilities. On December 23, 2004, a hole in a 1 inch nipple on the wellhead of well # 01-02 leaked approximately 3 bbls of oil and 3 bbls of water with approximately 2 bbls of oil and 2 bbls of water being recovered.

2.0 SITE CHARACTERIZATION

The leak area runs north to south from the wellhead across the well location into the pasture on the south end. The impacted area measures approximately 182 feet in length and 68 feet wide. A sketch of the leak area including the sample points can be reviewed in Appendix II of this report. Photographs of the site can be reviewed in Appendix III of this report. The surface soil is mostly caliche with some 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 are three recorded water wells located in Section 28, Township 17 South, and Range 35 East and the average depth to water is 70 feet. The bedrock in the Buckeye area is very shallow and at this site is approximately one foot below the surface of the topsoil.

3.0 SITE INVESTIGATION ACTIVITIES

On January 25, 2005, BBC personnel conducted an inspection of the site. Four samples were taken, utilizing hand sampling equipment, at a depth of approximately 1 foot. The samples were taken to Cardinal Laboratories and analyzed for BTEX, TPH (GRO and DRO), and Chlorides. Laboratory analysis for SP1-1' is: GRO – non detect, DRO – non detect, Chlorides – 1940 ppm, Benzene – non detect, Toluene – non-detect, Ethyl Benzene – non detect, and Total Xylenes – non detect. Laboratory analysis for SP2-1' is: GRO – non detect, DRO – non detect, Chlorides – 5440 ppm, Benzene – non detect, Toluene – non-detect, Ethyl Benzene – 0.014 ppm, and Total Xylenes - 0.030 ppm. Laboratory analysis for SP3-1" is: GRO – non detect, DRO – non detect, Chlorides – 14000 ppm, Benzene – non detect, Toluene – non detect, Ethyl Benzene – non detect, Total Xylenes – non detect. Laboratory analysis for Background-1' is: GRO – non detect, DRO – non detect, Chlorides – 96 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 and the sample point locations can be seen in the site diagram located in Appendix II of this report. On March 22, 2005 BBC personnel conducted a second sampling event at the site. Previous sample points were relocated using GPS coordinates, and one additional sample point was added. Five samples were taken using a backhoe. Three samples were taken from previous sample points SP1, SP2, and SP3. Two samples were taken from the new sample point SP4. Due to the extremely hard rock layer the deepest sample point was SP2 – 2'. The samples were taken to Cardinal Laboratories and SP4 – 1' was analyzed for BTEX, TPH (GRO and DRO), and Chlorides all other samples were analyzed for Chlorides only. Laboratory analysis for SP1@2' is: Chlorides – 720 ppm. Laboratory analysis for SP2@2.5' is: Chlorides – 1200 ppm. Laboratory analysis for SP3@1.5" is: Chlorides – 1760 ppm. Laboratory analysis for SP4@1' is: GRO – non detect, DRO – non detect, Chlorides – 14400 ppm, Benzene – non detect, Toluene – 0.008 ppm, Ethyl Benzene – non detect, Total Xylenes – non detect. Laboratory analysis for SP4@1.5' is: Chlorides – 3439 ppm. Laboratory analytical results for this sampling event can be reviewed in Appendix I of this report and the sample point locations can be seen in the site diagram located in Appendix II of this report.

4.0 CONCLUSION AND RECOMMENDATION

The laboratory data for this site indicates that TPH and BTEX concentrations are well below OCD guidelines for areas where depth to groundwater is greater than 50 feet, and the area of greatest chloride contamination is in the near surface portion of the leak area. Taking into consideration that the depth to groundwater in the area is greater than 50 feet, the majority of the leak area is on a compacted caliche well pad, and the existence of the rock layer at a depth of approximately one foot below ground surface, the evidence indicates that the migration of contamination to groundwater is unlikely. Therefore it is recommended that no further action be taken on the well pad. The impacted soil south of the well pad will be excavated to the rock layer at approximately 1 foot below ground surface and disposed of. This soil would be transported to an OCD approved landfarm or disposal site and the site closed.

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	Contact Stephen Wilson
Address HC60 Box 66, Lovington, NM	Telephone No. 505-396-7962
Facility Name Glorietta East 01-02	Facility Type Oil and Gas

Surface Owner State of NM	Mineral Owner	Lease No 30-025-20719
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LOCATION OF RELEASE

Unit Letter K	Section 28	Township 17S	Range 35E	Feet from the	North/South Line	Feet from the	East/West Line	County Lea, NM
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Latitude **N 32° 48.288'** Longitude **W 103° 27.898'**

NATURE OF RELEASE

Type of Release Crude oil and Produced water	Volume of Release 6bbl (3oil, 3water)	Volume Recovered (2oil, 2water)
Source of Release Well Head	Date and Hour of Occurrence 12-23-04 12:10pm	Date and Hour of Discovery 12-23-04 12:00 noon
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
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.*

Hole in 1" nipple on well head

Describe Area Affected and Cleanup Action Taken.*

30' x 40' Pad. Vacuum truck out pick free fluid, backhoe out to secure site. 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. 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: Stephen R. Wilson	Approval Date:		
Title: Sr. SHEAR Specialist	Expiration Date:		Attached <input type="checkbox"/>
E-mail Address: Stephen.R.Wilson@ConocoPhillips.com	Conditions of Approval:		
Date: 01-07-05 Phone: 505-396-7962			

* Attach Additional Sheets If Necessary

Spill Report

Facility	Glorieta east 01-02		Wellhead / Header	01-02	
Always identify the Facility (single well / battery) that a spill would be associated with. If release occurred from a pipeline, in addition to identifying the facility, also identify the Wellhead or Header to which it is connected.				Lease	Glorieta East 01-02
County	Lea		Date and Time Discovered	12-23-04	
Person Generating Report	John Rolan		Discharge Discovered By:	John Rolan	
Date and Time Discharge Began (if known)	12-23-04		Date and Time Discharge Ended (if known)	12-23-04	

Substance and Volume					
This spill involved <input checked="" type="checkbox"/> Liquid <input type="checkbox"/> Gas (check both if needed)					
Gas Volume Released		MCF from leak		MCF from blowdown	
Substance Spilled	Amount Spilled	Units mark one	Amount Recovered	Units mark one	
Oil (cond. or crude)	3	<input checked="" type="checkbox"/> bbls <input type="checkbox"/> gal	2	<input checked="" type="checkbox"/> bbls <input type="checkbox"/> gal	
Produced Water	3	<input checked="" type="checkbox"/> bbls <input type="checkbox"/> gal	2	<input checked="" type="checkbox"/> bbls <input type="checkbox"/> gal	
Oil-based Mud		<input type="checkbox"/> bbls <input type="checkbox"/> gal		<input type="checkbox"/> bbls <input type="checkbox"/> gal	
Water-based Mud		<input type="checkbox"/> bbls <input type="checkbox"/> gal		<input type="checkbox"/> bbls <input type="checkbox"/> gal	
Chemical		<input type="checkbox"/> bbls <input type="checkbox"/> gal		<input type="checkbox"/> bbls <input type="checkbox"/> gal	
Chemical Name: _____					
Other		<input type="checkbox"/> bbls <input type="checkbox"/> gal		<input type="checkbox"/> bbls <input type="checkbox"/> gal	
Specify: _____					

Risk Factors		
Did the spill cause a sheen on Navigable Waters?	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
Was spill contained within diked area? (liquid spills only)	<input checked="" type="checkbox"/> yes	<input type="checkbox"/> no
Is there a public area (town, road, house, etc.) within 1/4 mile?	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
Did spill impact Groundwater?	<input type="checkbox"/> yes	<input checked="" type="checkbox"/> no
Surface Area Affected (ft ²)	30X40	
Est. Spill Cost (supervisor to fill in)		
<input checked="" type="checkbox"/> Caliche/Prepared Surface <input type="checkbox"/> Vegetation / Land Affected <input type="checkbox"/> Limited Vegetation <input type="checkbox"/> Cropland		
<input checked="" type="checkbox"/> No impact <input type="checkbox"/> Wildlife/Livestock Affected <input type="checkbox"/> Affected (no animals killed) <input type="checkbox"/> Significant impact (animals killed)		

Failure Source - PIPELINE					
1" inch Flowline	feet	<input type="checkbox"/> N <input checked="" type="checkbox"/> S <input type="checkbox"/> W <input type="checkbox"/> E	of	Well / Header	<input checked="" type="checkbox"/> Facility <input type="checkbox"/>
<input type="checkbox"/> Buried	<input checked="" type="checkbox"/> Steel	<input type="checkbox"/> Externally coated			
<input checked="" type="checkbox"/> Surface	<input type="checkbox"/> Fiberglass				
	<input type="checkbox"/> Transite				
	<input type="checkbox"/> Plastic				
Was the Line Chemically Treated? <input checked="" type="checkbox"/> yes <input type="checkbox"/> no					

Possible Reasons for Failure - (choose all that apply)	
<input checked="" type="checkbox"/> Internal Corrosion	<input type="checkbox"/> Instrumentation
<input type="checkbox"/> External Corrosion	<input type="checkbox"/> Weather
<input type="checkbox"/> Pressure	<input type="checkbox"/> Age
<input type="checkbox"/> Mechanical	<input type="checkbox"/> Vandalism
<input type="checkbox"/> Fatigue	<input type="checkbox"/> Inadequate Training

Failure Source - OTHER			
<input type="checkbox"/> Tank	<input checked="" type="checkbox"/> Wellhead/Stuffing Box	<input type="checkbox"/> Vessel Piping	<input type="checkbox"/> Line Connection Failure
<input type="checkbox"/> Tank Piping	<input type="checkbox"/> Chemical Storage Containers	<input type="checkbox"/> Vessel (dehy, stack pack, line heater, etc.)	<input type="checkbox"/> Breach of Reserve Pit/Cellar
<input type="checkbox"/> Other - explain			

Immediate Action Being Taken:	replaced one inch nipple with new one
Root Cause(s):	
Corrective	replaced with plastic coated nipple

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

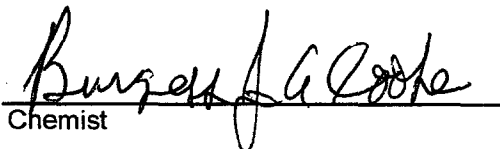
Receiving Date: 01/26/05
Reporting Date: 01/27/05
Project Owner: CONOCO PHILLIPS
Project Name: GLORIETTA EAST 01-02
Project Location: BUCKEYE, NEW MEXICO

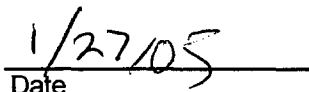
Sampling Date: 01/25/05
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	CI* (mg/Kg)
		01/26/04	01/26/04	01/27/04
H9502-1	SP1-1'	<10.0	<10.0	1940
H9502-2	SP2-1'	<10.0	<10.0	5440
H9502-3	SP3-1'	<10.0	<10.0	14000
H9502-4	SP4-BACKGROUND	<10.0	<10.0	96
Quality Control		741	803	930
True Value QC		800	800	1000
% Recovery		92.6	100	93.0
Relative Percent Difference		0.6	0.3	4.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI: Std. Methods 4500-CI*B

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


Chemist


Date

H9502A.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.

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

Page 7 of 7

Company Name: BBC INTERNATIONAL		P.O. #:	
Project Manager: CLIFF BEVENSEN		Company:	
Address: 1324 W. MARLAND		Attn:	
City: HOBBS	State: NM	Zip: 88240	
Phone #: (505) 3976300	Fax #: (505) 3970397	Address:	
Project #: Project Owner: <i>Conoco Phillips</i>		City:	
Project Name: Globetrotter East 01-02		State:	
Project Location: Buckeye New Mexico		Phone #:	
Sampler Name: Roger Hernandez		Fax #:	

Lab I.D.	Sample I.D.	MATRIX				PRESERV	SAMPLING	DATE	TIME
		GROUNDWATER	WASTEWATER	SOIL	CRUDE OIL				
		(G) RAB OR (C) O.M.P.	# CONTAINERS			OTHER:	ACID/BASE:	ICE / COOL	OTHER:
H9502-1	SP1-1'	G-1	1	✓	✓	✓	✓	✓	1-25-05 14:08
-2SP2-1'		G-1	1	✓	✓	✓	✓	✓	1-25-05 14:13
-3SP3-1'		G-1	1	✓	✓	✓	✓	✓	1-25-05 14:20
-4SP4-Background		G-1	1	✓	✓	✓	✓	✓	1-25-05 14:22

FOR LAB USE ONLY

Phone Result: ☐ Yes ☐ No Add'l Phone #: _____

Fax Result: ☐ Yes ☐ No Add'l Fax #: _____

REMARKS:

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Terms and Conditions: Invoiced will be charged on all accounts more than 30 days past due at the rate of 2 1/2% per annum from the original date of invoice, and all costs of collections, including attorney's fees.



ARDINAL LABORATORIES

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

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

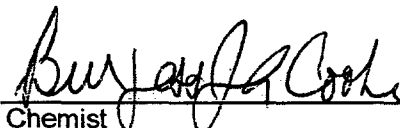
Receiving Date: 03/22/05
Reporting Date: 03/23/05
Project Owner: CONOCO PHILLIPS
Project Name: GLORIETTA EAST 01-002
Project Location: BUCKEYE, NM

Sampling Date: 03/22/05
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: BC/JD

LAB NUMBER	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/Kg)	DRO (>C ₁₀ -C ₂₈) (mg/Kg)	Cl* (mg/Kg)
ANALYSIS DATE		03/22/05	03/22/05	03/23/05
H9647-1	SP4 @ 1'	<10.0	<10.0	14400
Quality Control		779	793	1000
True Value QC		800	800	1000
% Recovery		97.4	99.2	100
Relative Percent Difference		9.5	2.4	5.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl: Std. Methods 4500-ClB

*Analysis performed on a 1:4 w:v aqueous extract.


Chemist

3/23/05
Date

H9647A.XLS

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

Page 7 of 7

ANALYSIS REQUEST									
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Company Name: ORC Inter national, Inc.</p> <p>Project Manager: Cliff Dawson</p> <p>Address: 1324 W. Merland</p> <p>City: Hobbs State: NM Zip: 88240</p> <p>Phone #: (505) 397-6398 Fax #: (505) 397-0392</p> <p>Project #: — Project Owner: Casophillips</p> <p>Project Name: Glacietta East 01-02</p> <p>Project Location: Boehme N.M.</p> <p>Sampler Name: Ken Swinney</p> </div> <div style="width: 50%;"> <p>P.O. #:</p> <p>Company:</p> <p>Attn: SAAC</p> <p>Address:</p> <p>City:</p> <p>State:</p> <p>Zip:</p> <p>Phone #:</p> <p>Fax #:</p> </div> </div>									
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>FOR USE ONLY</p> <p>Lab I.D. Sample I.D.</p> </div> <div style="width: 50%;"> <p>Matrix: GROUNDWATER</p> <p>Containers: 6</p> <p>Groundwater: 6</p> <p>Wastewater: 6</p> <p>Soil: 6</p> <p>Crude Oil: 6</p> <p>Sludge: 6</p> <p>Other: 6</p> <p>Acid/Base: 6</p> <p>Ice/Cool: 6</p> <p>Other: 6</p> </div> </div>									
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Preserv: 6</p> <p>Sampling: 6</p> </div> <div style="width: 50%;"> <p>Date: 3-22-01</p> <p>Time: 10:16</p> </div> </div>									
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>Phone Result: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Fax Result: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> </div> <div style="width: 50%;"> <p>Phone #: 805 M</p> <p>Fax #: 805 M</p> </div> </div>									
<p>REMARKS:</p>									
<p>Received By: Ken Swinney Date: 3-22-01 Time: 16:17</p> <p>Received By: (Lab Staff) Buyen Date: 3-22-01 Time: 16:17</p> <p>Delivered By: (Circle One) Ken Swinney</p> <p>Sampler - UPS - Bus - Other:</p>									



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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: 03/22/05
Reporting Date: 03/25/05
Project Owner: CONOCO PHILLIPS
Project Name: GLORIETTA EAST 01-02
Project Location: BUCKEYE, NM

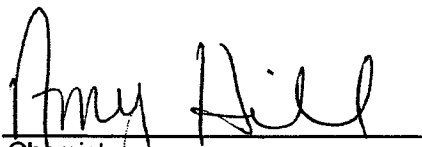
Analysis Date: 03/23/05
Sampling Date: 03/22/05
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: BC
Analyzed By: JD

LAB NUMBER	SAMPLE ID	Cl ⁻ (mg/Kg)
H9648-1	SP1 @ 2'	720
H9648-2	SP2 @ 2 1/2'	1200
H9648-3	SP3 @ 1 1/2'	1760
H9648-4	SP4 @ 1 1/2'	3439
Quality Control		1000
True Value QC		1000
% Recovery		100
Relative Percent Difference		5.0

METHOD: Std. Methods

4500-Cl⁻B

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


Chemist


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.

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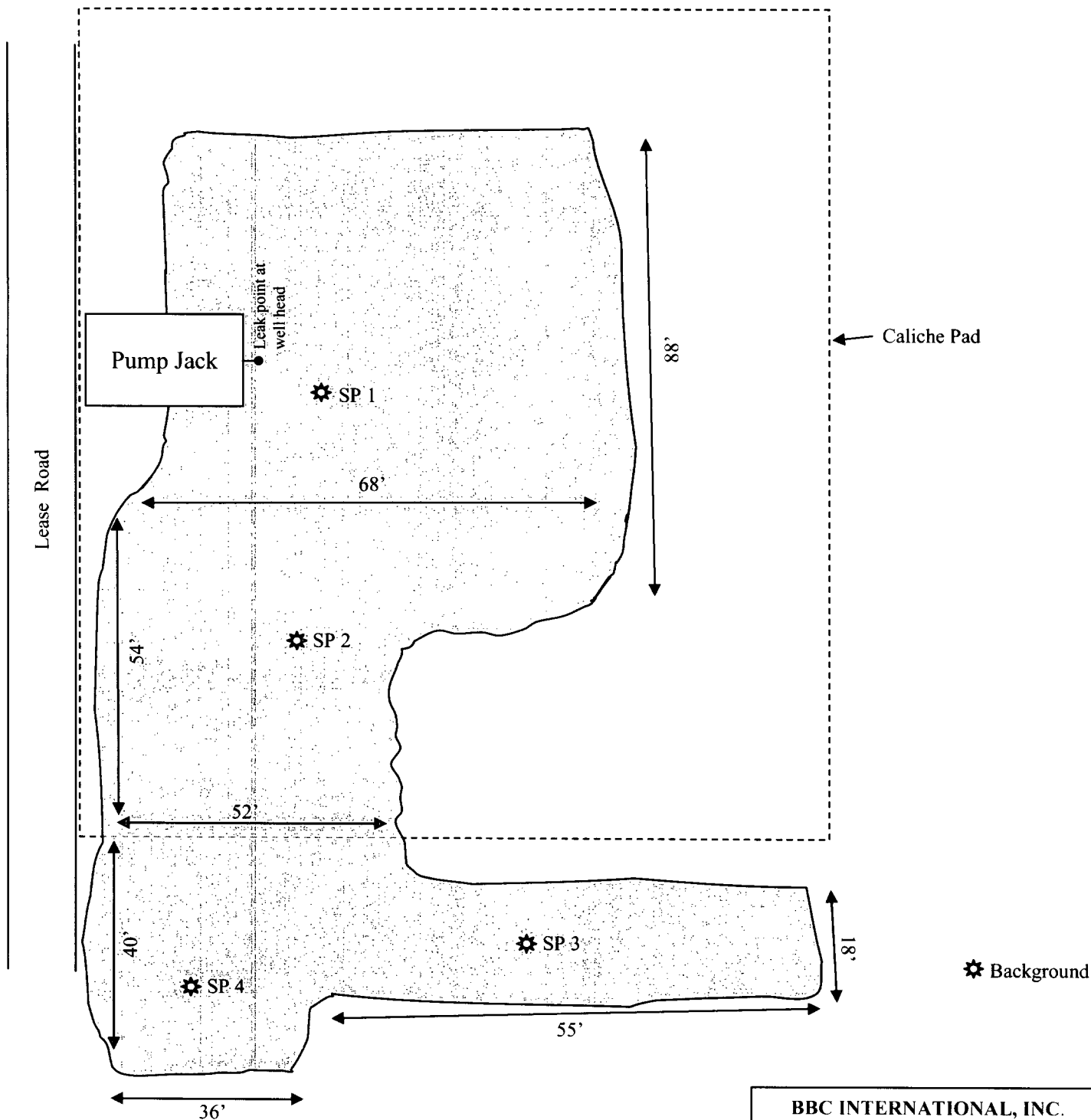
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Appendix II

CONOCOPHILLIPS GLORIETTA EAST 01-02



LEGEND

★ Sample Point (SP)

BBC INTERNATIONAL, INC.

CONOCOPHILLIPS
GLORIETTA EAST 01-02

Date: 1-27-05

Drawn By: JG

Disk:

Sheet 1 of 1 Sheets

Scale: Not to Scale

File Name

**CONOCOPHILLIPS
GLORIETTA EAST**

01-02

GPS Coordinates

SP-1 N. 32° 48.296'
 W. 103° 27.888'

SP-2 N. 32° 48.289'
 W. 103° 27.892'

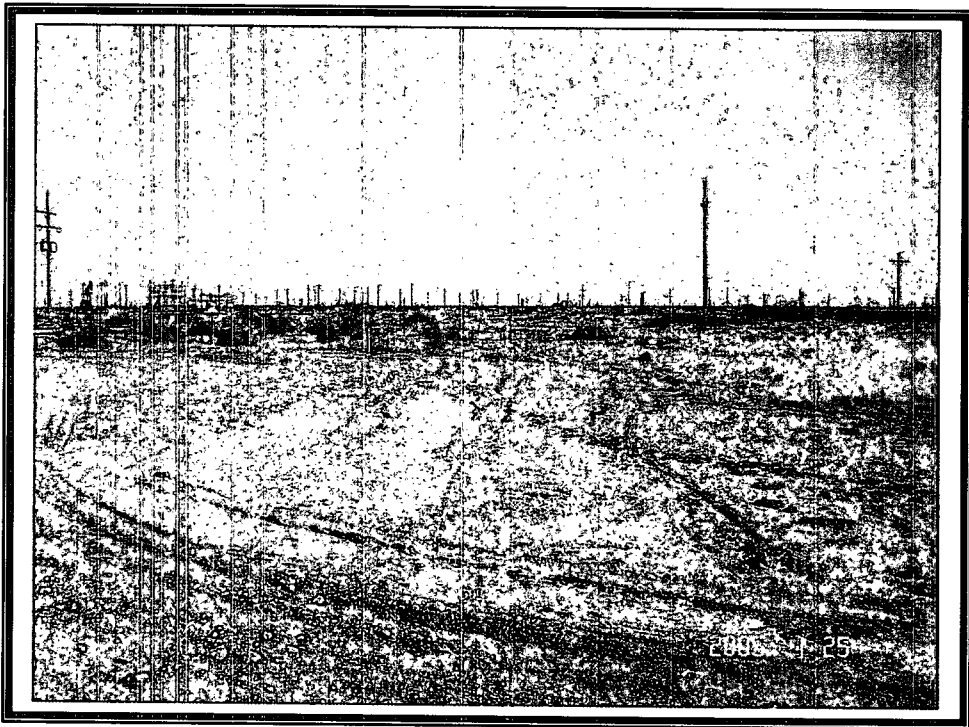
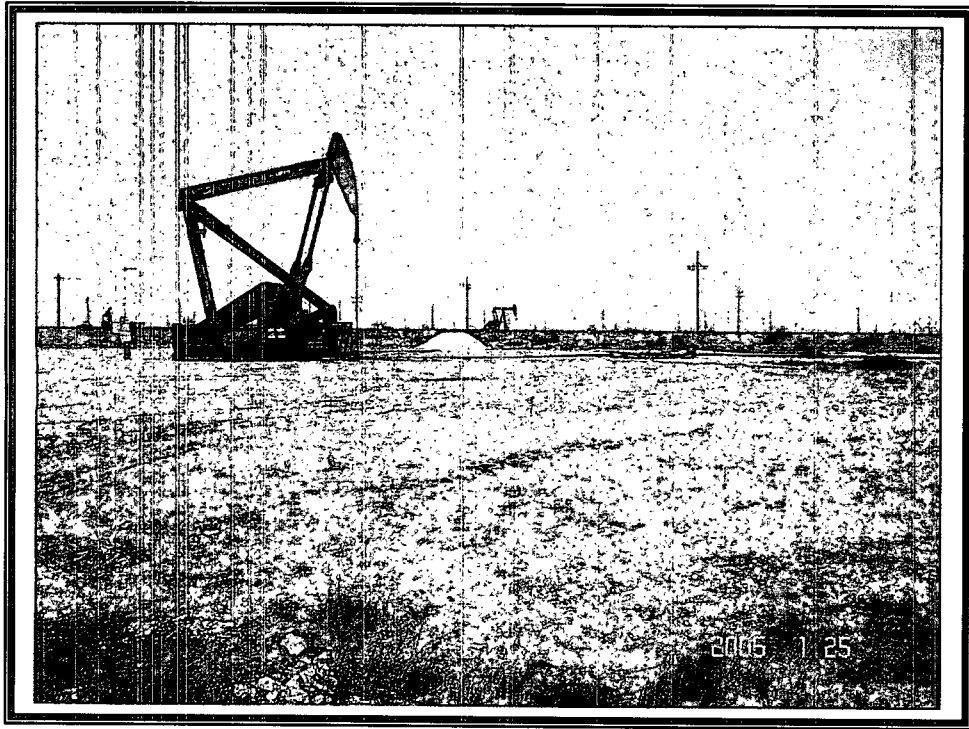
SP-3 N. 32° 48.281'
 W. 103° 27.888'

SP-4 N. 32° 48.279'
 W. 103° 27.897'

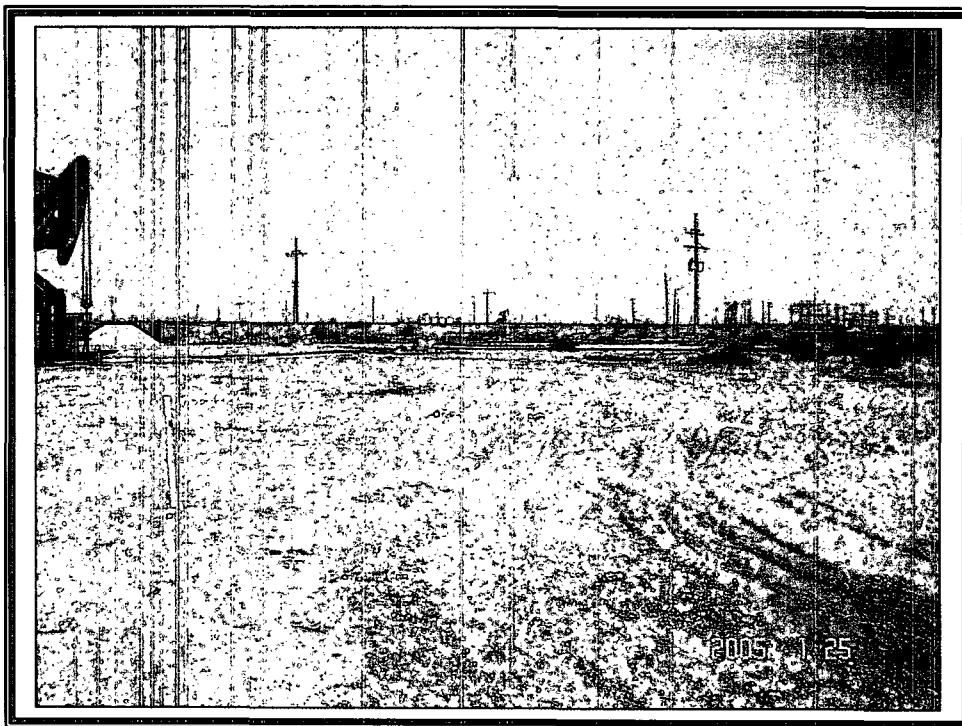
BG N. 32° 48.279'
 W. 103° 27.870'

Appendix III

January 25, 2005



January 25, 2005



January 25, 2005

