

CONOCO INC.

MCA #169 INJECTION LINE LEAK #2

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

NOVEMBER 19, 2001

PREPARED FOR:

MR. JOHN COY CONOCO INC. PO BOX 180 MALJAMAR, NEW MEXICO 88264

Conoco 217817

API# 30025007550000

incident - n PACO608 133061

application - pPACO608 133177

Conoco MCA # 169 Injection Line Leak #2 5-8-00

1.0 INTRODUCTION

The subject site is located south of Maljamar, New Mexico in Unit Letter L of Section 29, Township 17 South, Range 32 East. The site consists of undeveloped rangeland. On May 8, 2000 an injection line leaked approximately 110 barrels of produced water with approximately 90 barrels being recovered.

2.0 SITE CHARACTERIZATION

The leak area runs East-West for approximately 172 feet on either side of the injection line. The leak area is approximately 8 feet wide. 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 Conoco Maljamar Plant, depth to ground water is approximately 90 feet.

3.0 SITE INVESTIGATION ACTIVITIES

On June 22, 2000, Conoco personnel took a three point composite sample at the site for laboratory analysis. This sample was taken at a depth of 59 inches. The lab results are located on Figure 1 and in Appendix II. On October 16, 2000 BBC personnel conducted an inspection of the site. One sample point was collected at the site at a depth of 9 feet using a backhoe. On October 12, 2001, BBC personnel returned to the site to take additional soil samples at a greater depth. One sample point was drilled to a depth of 25 feet using BBC's tractor mount drilling rig. Field screening techniques were used to determine samples to be sent for laboratory analysis. Field screening consisted of field chloride titrations. Laboratory results are located on Figure 1 and in Appendix I. Pictures of investigation activities are located in Appendix III.

4.0 CONCLUSION AND RECOMMENDATION

The data shows a significant reduction in chloride concentrations from 7886 ppm at 59 inches to 610 ppm at 9 feet, and 272 ppm at 25 feet. Taking into consideration that the depth to groundwater is greater than eighty feet, and the subsurface soil lithology at the site consists of caliche and sandstone layers, it is evident that the migration of chlorides to groundwater is unlikely. Therefore it is recommended that only surface remediation is necessary. This could consist of the addition of gypsum, ammonium nitrate, Salt-Block, or other amendments that will reduce the chloride concentrations in the soil to allow for revegetation.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505 Form C-141 Revised March 17, 1999

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

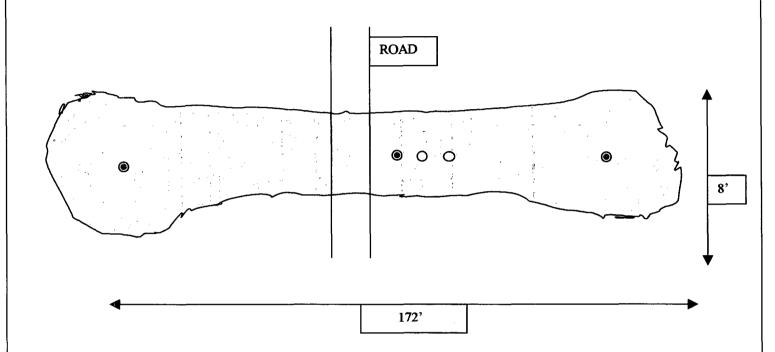
Release Notification and Corrective Action

			Relea	ase mounts:			rrecuve Ac		isial Da		Fig. 15
Name of Co	ompany				OPE	Contact		in	itial Rej	oort	Final Report
Conoco, Inc						John Coy	/				
Address						Telephor					
		100 W, Mic	lland, TX	79705		(505) 670		 ·			
Facility Nat MCA	ne 				·	Facility I	• •				·
Surface Ow Caswell		1CA # 169	591 5171		al Owne	r			Lease LC02	e No. 29410A / 69	87018
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By Whom? Kevin Walker	and John C	7017				Date and H		'D) and 5/	12/00 @	0-20 AM (D)	mo 22
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			Yes	No		Í					
If a Watercou	rsc was Imp	acted, Descri	be Fully.*			L		**			
Describe Caus						-					
Cause of Prol	blem: Inter	nal corrosion	of 2" bur	ied steel pipe							
Remedial Act	ion Taken:	: Closed in h	eader and	well. Replaced b	ad pipin	g					
Describe Area				en.* on. Will remedia	te soil in	nlace					
THUM MITOURG		in ion oper	on toods		5011 111	piace.					
I hereby certif	y that the in	formation giv	ven above	is true and comp	lete to the	e best of my	knowledge and u	nderstand t	hat purs	uant to NMO	CD rules
and regulation	s all operate	ors are require	ed to repor	rt and/or file certa	in releas	e notification	ns and perform co	rrective ac	tions for	releases, whi	ich may
endanger publi	ic health or	the environm	ent. The	acceptance of a C adequately invest	≻I41 rep	ort by the NI	MOCD marked as	"Final Re	port" do	es not relieve	the operator
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compliance wi	th any other	r federal, state	e, or local	laws and/or regul	lations.	· · · · · · · · · · · · · · · · · · ·				<u> </u>	
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Signature:	X V	ry u	FO	· · · · · · · · · · · · · · · · · · ·							·
rinted Name:	Betsy Ritte	er				Approved b	yDistrict Supervi	sor:	·		
Title: Agent fo	or Conoco					Approval D	ate:	E	xpiration	n Date:	
Date: May 12,	2000		Pho	nc: (915) 570-60	07					Attached	
* Attach Add		etc If Naces		uc. (212) 270-00	· · · · · ·	Conditions	of Approval:				(

Figure 1



CONOCO MCA # 169 INJECTION LINE LEAK #2 5-8-00



LEGEND

© CONOCO sample point 6-22-00 composite sample

O BBC sample point 10-16-00 & 10-12-01 grab sample

Sample	Date	Depth	Chloride
CONOCO	6-22-00	59"	7886 PPM
BBC	10-16-00	9'	610 PPM
BBC	10-12-01	25'	272 PPM

BBC INTERN	ATIONAL, INC.
CONOC	O MCA #169
Date: 11-20-00	Drawn By: Ken
Disk:	Sheet of Sheets
Scale: Not to Scale	File Name

Appendix I



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: 10/15/01 Reporting Date: 10/16/01

Project Owner: CONOCO

Project Name: MCA CONOCO

Project Location: MALJAMAR

Analysis Date: 10/16/01 Sampling Date: 10/12/01

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: AH

LAB NUMBER	SAMPLE ID	Cl¯ (mg/Kg)
H6213-1	MCA 169-2-25'	272
Quality Control		1010
True Value QC		1000
% Recovery		101
Relative Percent	Difference	1.0
METHOD: Standard	Methods	4500-CIB

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

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

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3	101	

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

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Phone #: (505) 397 - 6388	197-1.388								×	Address:	289		787	(1/1)																								
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pelivered By: (Circle One)

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HECKED BY: (Initials)

[†] Cardinal cannot accept verbal changes. Please fax written changes to 915-673-7020.



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

ANALYTICAL RESULTS FOR BBC INTERNATIONAL INC. ATTN: CLIFF BRUNSON 1324 W. MARLAND HOBBS, NM 88240 FAX TO: (505) 397-0397

Receiving Date: 10/17/00
Reporting Date: 10/18/00
Project Number: NOT GIVEN
Project Name: MCA CONOCO

Project Name: MCA CONOCO Project Location: MALJAMAR, NM

Sampling Date: 10/16/00 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: GP Analyzed By: BC/AH

LAB NUMBER	SAMPLE ID	TPH (mg/Kg)	CI* (mg/Kg)
ANALYSIS DA	TE:	10/17/00	10/18/00
H5264-1	MCA#21FL 5'6"	2290	267
H5264-2	MCA#21FL 11'	38100	168
H5264-3	MCA#21FL 18'1"C	-	229
H5264-4	MCA#21FL 18'1"T	1500	-
H5264-5	MCA#169-1	-	610
H5264-6	MCA#169-2	_	2000
H5264-7	MCA 2A INJ. LINE	-	763
H52 64 -8	FILL DIRT	<10	61
Quality Control		218	1039
True Value QC		240	1000
% Recovery		90.9	104
Relative Perce	nt Difference	7.0	1.3

METHODS: TPH-EPA 600/4-79-020 418.1; CI-Std. Methods 4500-CIB *Analyses performed on 1:4 w:v aqueous extracts.

H5264.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.



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

ANALYTICAL RESULTS FOR BBC INTERNATIONAL INC. ATTN: CLIFF BRUNSON 1324 W. MARLAND

HOBBS, NM 88240 FAX TO: (505) 397-0397

Receiving Date: 10/17/00

Reporting Date: 10/19/00

Project Number: NOT GIVEN

Project Name: MCA CONOCO
Project Location: MALJAMAR, NM

Sampling Date: 10/16/00

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: GP

Analyzed By: BC

LAB NO.	SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS [DATE	10/19/00	10/19/00	10/19/00	10/19/00
H5264-1	MCA#21FL 5'6"	0.020	0.008	0.902	1.02
H5264-2	MCA#21FL 11'	1.30	8.71	42.3	79.6
H5264-4	MCA#21FL 18'1"T	<0.005	0.009	0.006	0.016
H5264-8	FILL DIRT	<0.005	<0.005	<0.005	<0.015
Quality Contr		0.089	0.092	0.090	0.273
% Recovery		89.0	92.4	90.4	91.1
Relative Perd	cent Difference	1.9	2.1	1.9	1.8

METHOD: EPA SW-846 8260

emist //

Date

H5264B.XLS

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST * (4) 126 11 18(3)

PHONE 9151573 7001 . 1111 BEECHWOOD

ABORATORIES ARDINAL

PHONE 5051 393-2155 . 101 F MAPLAND . - C'181 M. 19230

REQUEST ANALYSIS 10/6-00 9:00 10 4-00 9:41m 0 tra 1:20 10%-00 9:30 75-6-00 2:45 TIME 00:1/00:01-01 016-00 9:30 10 16.00 4:15 SAMPLING DATE PO ₩. BOVE : ABHTO KE/COOF YCID: BILL TO : ABHTO Company Address: Phone #: BLUDGE State: Fax #: Attn: CITY: MATRIX 7 30KF **RETAWETER** RETAWONUORO State: Um Dp: 87240 * CONTAINERS COMP(C) OR GRAB(C) theme were the sound owners to the state of Company Name: Re Internate fion & Project Manager: Ciff P Bunsa MCAZA INI LINE MCA#2/FL /8'1" MCA#216656 20000 MCR# 169-W. Marland Sample LD. MCA# 169-2 Project Location: Mal Jamar MCA#21 FL MCR # 21FL Phone #: /- 205-397-6388 Fat #: 1-505-397-0597 Fill Dirt PLEASE NOTE (Lability and Damages) Cardinate valing Aschans, including mosa for represents and any obserteus Project Name: MCP Project #: Project Address: 1324 LAB LD.# ナー ا ا CHY: #0665 } 45264-

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Phone Result | Yes | Na Additional Fax #: Fax Results: | Yes | No REMARKS: CHECKED BY: Thee 5.00 Pm Rocolvod By: ILab Staff 763 Cool Intact
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Appendix II

27-11-00; BITSPMIT FINCO PRODUCTION

MR. JOHN COY CONOCO, INC. P.O. BOX 180 MALJAMAR, NEW MEXICO 88264 JUNE 28, 2000

DEAR MR. COY:

THE FOLLOWING ARE THE RESULTS OF THE FOUR SOIL SAMPLES, RECEIVED 06/26/00, LAB NOS. 791-794:

CHLORIDES

mg/Kg

LAB NO. 791: MCA #169 4,746
SITE #1 10:00 AM Cump & 74"
SAMPLED 06/22/00

LAB NO. 792: MCA #169 7,886 SITE #2 COMP. @ 59" SAMPLED 06/22/00 2:40 PM

LAB NO. 793: MCA #2A 701
TRUNK LINE COMP. @ 80"
SAMPLED 06/22/00 2:10 PM

LAB NO. 794: MCA #21 564 3 PT COMP @ 14' SAMPLED 06/23/00 9:30 AM

METHOD:

CHLORIDES - AGRICULTURE HANDBOOK NO. 60 3C(1:10) SMWW 407-C

WE APPRECIATE THE OPPORTUNITY TO WORK WITH YOU ON THESE TESTS. IF YOU HAVE ANY QUESTIONS OR REQUIRE ANY FURTHER INFORMATION, PLEASE FEEL FREE TO CONTACT ME AT ANY TIME.

SINCERELY,

STEPHEN REID SR/md

MR. JOHN COY CONOCO, INC. P.O. BOX 180 MALJAMAR, NEW MEXICO 88264 JUNE 29, 2000

DEAR MR. COY:

THE FOLLOWING ARE THE RESULTS OF THE FOUR SOIL SAMPLES FOR BTEX, RECEIVED 06/26/00, LAB NOS. 791-794:

	BENZENE mg/Kg	TOLUENE mg/Kg	ETHYL BENZENE mg/Kg	XYLENES mg/Kg
LAB NO. 791: MCA #169 SITE #1 10:00 AM Com/ @74" SAMPLED 06/22/00	< 0.100	< 0.100	< 0.100	< 0.100
LAB NO. 792: MCA #169 SITE #2 COMP. @ 59" SAMPLED 06/22/00 2:4		< 0.100	< 0.100	< 0.100
LAB NO. 793: MCA #2A TRUNK LINE COMP. @ 80" SAMPLED 06/22/00 2::		< 0.100	< 0.100	< 0.100
LAB NO. 794: MCA #21 3 PT COMP @ 14' SAMPLED 06/23/00 9:3		0.670	1.040	6.680
2WMLTPD 00/52/00 2:	DO EM			

NOTE: BTEX RESULTS ARE FROM ANOTHER LABORATORY.

< = LESS THAN

SAMPLE MATRIX: SOIL

METHODS: SW 846-8021B, 5030A

WE APPRECIATE THE OPPORTUNITY TO WORK WITH YOU ON THESE TESTS. IF YOU HAVE ANY QUESTIONS OR REQUIRE ANY FURTHER INFORMATION, PLEASE FEEL FREE TO CONTACT ME AT ANY TIME.

SINCERELY,

STEPHEN REID SR/dt

MR. JOHN COY CONOCO, INC. P.O. BOX 180 MALJAMAR, NEW MEXICO 88264 JUNE 28, 2000

DEAR MR. COY:

THE FOLLOWING IS THE RESULT OF THE SOIL SAMPLE FOR TOTAL PETROLEUM HYDROCARBONS, RECEIVED 06/26/00, LAB NO. 794:

> TOTAL PETROLEUM HYDROCARBONS mg/Kg 3,905 0.3905

LAB NO. 794: MCA #21 3 PT COMP @ 14' SAMPLED 06/23/00 9:30 AM

METHOD: EPA 418.1

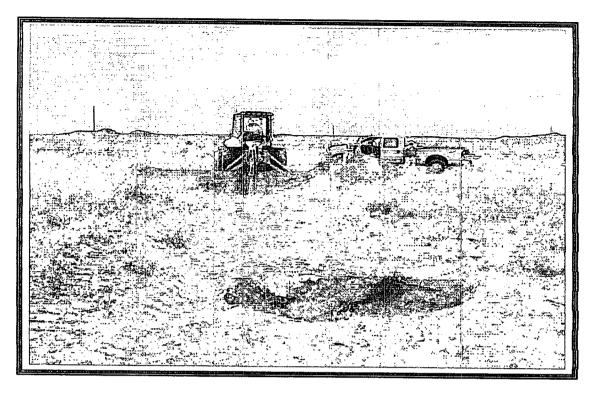
WE APPRECIATE THE OPPORTUNITY TO WORK WITH YOU ON THESE TESTS. IF YOU HAVE ANY QUESTIONS OR REQUIRE ANY FURTHER INFORMATION, PLEASE FEEL FREE TO CONTACT ME AT ANY TIME.

SINCERELY,

STEPHEN REID SR/dt

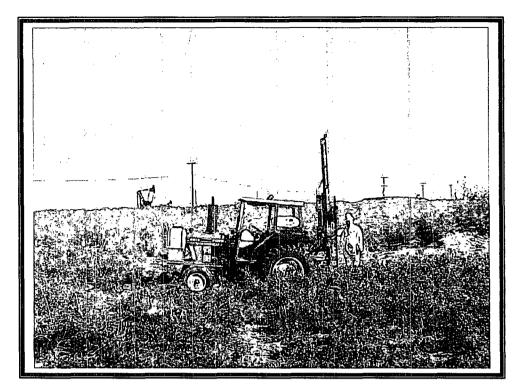
Appendix III





MCA #169 Spill date 5-8-00 Sample taken at 9'





MCA #169 Sample date 10-12-01 – Sample taken at 25'

<u>District I</u> 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

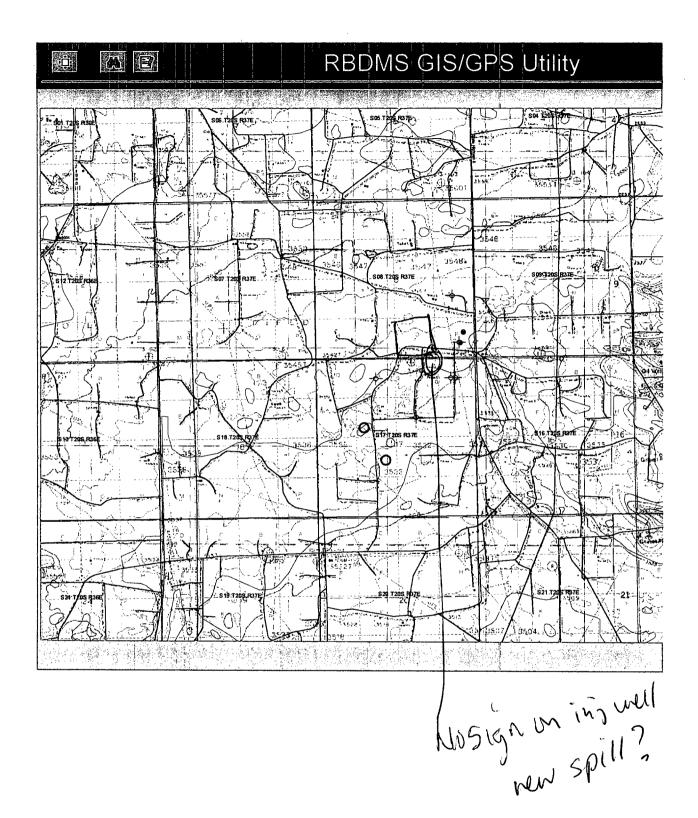
Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

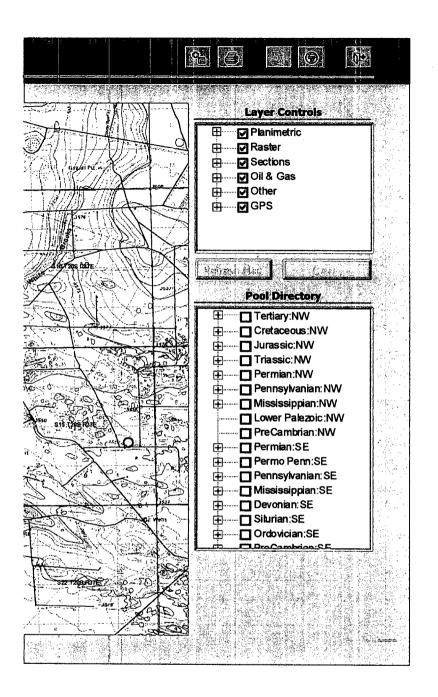
Form C-141 Revised October 10, 2003

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

Release Notification and Corrective Action

			Rele	ease Notific	ation	and Co	rrective A		A. S.
						OPERA	OR	In	itial Report 🏽 🐉 Final Report
Name of Co						Contact Dar		/ 12 (-65) 50	: 200 0866 (-211)
Address P.C Facility Nan							e – Production	42 (omce), 50:	3-390-0866 (cell)
Surface Own	ner- Berth	a Barber eta	<u> </u>	Mineral C	wner –	State of Ne	w Mexico	Leas	e No.
						OF RE	LEASE		
Unit Letter P	Section 8	Township 20S	Range 37E	Feet from the	North/S	South Line	Feet from the	East/West Lin	County Lea
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Type of Relea	ase-Produce	ed Water		LVZXI	CICE	Volume of		Volum	e Recovered-
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Source of Re	lease- 2 st	eei pipe				3/7/06	our of Occurrenc	II	nd Hour of Discovery @ 4:00 p.m.
Was Immedia	ate Notice (Yes [No Not Re	equired	If YES, To Pat Capert		•	
By Whom? L							lour 3/8/06 @ 5:3		
Was a Watero	course Read		Yes 🗵	1 No		If YES, Vo	lume Impacting t	the Watercourse	
If a Watercou						<u> </u>			
Describe Cau Water line fro				n Taken.* iternal corrosion.	Lease wa	ns shut-in and	l line replaced with	th IPC pipe.	
Describe Area	a Affected	and Cleanup A	Action Tal	cen.* Fluid was co	ontained	on battery pa	d and vacuumed	up.	
regulations al public health should their o	I operators or the envi- perations hament. In a	are required to ronment. The ave failed to a ddition, NMC	o report and acceptance acceptanc	nd/or file certain race of a C-141 report investigate and race	elease no ort by the emediate	otifications as NMOCD m contaminati	nd perform correct arked as "Final Roon that pose a three	tive actions for eport" does not eat to ground wa	ursuant to NMOCD rules and releases which may endanger relieve the operator of liability ster, surface water, human health r compliance with any other
Signature:)a //a					OIL CON	<u>SERVATIO</u>	N DIVISION
Printed Name	: Danny Lo	ovell			F	Approved by	District Supervise	or:	
Title: Operati	ons Rep				A	Approval Dat	e:	Expiration	on Date:
E-mail Addre	ss: lovd@c	hevrontexaco	.com		°	Conditions of	Approval:		Attached
Date: 3/10/0 Attach Addit	6 ional Shee		e: 505-394 ary	1-1242				00.0	((1) (1)
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