

# CONOCOPHILLIPS

# MCA BATTERY 1 TRUNKLINE LEAK

**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

AUGUST 23, 2005

PREPARED FOR:

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

WEBSITE: www.bbcinternational.com





## NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON Governor

Joanna Prukop Cabinet Secretary Mark E. Fesmire, P.E. Director Oil Conservation Division

September 15, 2005

Ken Anderson Conoco Phillips POB 180 Maljamar, NM 88264-0180

Re: Work Plan Approval MCA Unit Battery #1 Dated: 08/23/05 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.

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: <u>psheeeley@state.nm.us</u>

Sincerely,

Paul Sheeley-Environmental Engineer Cc: Roger Anderson - Environmental Bureau Chief Chris Williams - District I Supervisor Larry Johnson - Environmental Engineer Ken Swinny - BBC

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

### 1.0 INTRODUCTION

On July 18, 2005 Ken Swinney and Cliff Brunson of BBC International, Inc. (BBC) met with Paul Sheeley of the New Mexico Oil Conservation Division (NMOCD) to discuss a surface remediation closure plan for the ConocoPhillips MCA Battery 1 Trunkline site in lieu of the excavation/liner plan approved by the NMOCD on January 6, 2005.

The purpose of the meeting was to discuss the potential of exploring for a subsurface naturally-occurring impermeable barrier at the site that would serve as a protection barrier to groundwater instead of the use of a geosynthetic liner that had been previously approved. In addition, if a barrier was found or no groundwater was encountered within 100 feet of the surface, then a surface remediation plan would be proposed instead of excavation, disposal, and installation of a geosynthetic liner that had been previously proposed and approved.

Mr. Sheeley stated that a naturally occurring impermeable barrier could be used if it were above groundwater, and of sufficient area and thickness. Mr. Sheeley also stated that a barrier may not be required if there were no groundwater to protect. The requirement for "no groundwater to protect" would be a soil boring drilled to at least 100 feet below ground surface (bgs) that does not encounter groundwater. Vertical delineation of the site to 250 ppm of chloride would also be required.

## 2.0 SITE INVESTIGATION ACTIVITIES

On August 3, 2005, BBC personnel mobilized to the site with an air rotary drilling rig and equipment to drill and sample the site. The objectives of the investigation were to determine the existence of a naturally occurring impermeable barrier of sufficient area and thickness, to vertically delineate the site to 250 ppm chlorides, and to determine if groundwater is present at the site. A soil boring was advanced to 138 feet bgs and samples were taken at 5' intervals. The samples were screened using field chloride titration analysis. All samples from 5' to 70' and the bottom sample at 138' were taken to Cardinal Laboratories for chloride analysis.

Mr. Steven Bond, BBC's geologist, was on location for the entire drilling operation to determine if a natural impermeable barrier exists at the location and

if groundwater is present. No evidence of an impermeable barrier was encountered in the soil boring and Mr. Bond stated in his "Summary of Test Boring MCA Battery1 injection line leak" that: It is unlikely that a saturated zone (groundwater) will be encountered in the Dockum Group. The geologist summary and soil boring log can be reviewed in Appendix I. The laboratory analysis reports can be reviewed in Appendix II.

#### 3.0 CONCLUSION AND RECOMMENDATION

Although no evidence of a naturally occurring impermeable barrier was found, groundwater also was not found, and laboratory analysis shows that the chloride impact drops to 768 ppm at 35' bgs and to 176 ppm at 50' bgs. Therefore, BBC concludes that an excavation and liner installation is not warranted at this site.

Due to the sensitivity of this site as a dune lizard habitat, BBC recommends surface remediation to restore vegetation and cause minimal disturbance to the habitat. This remediation would consist of plowing and discing the site and the addition of gypsum and fertilizer or humate. The site would then be reseeded with appropriate BLM seed mix, watered, and closed. State of New Mexico Energy Minerals and Natural Resources

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

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

			Rele	ase Notific		on and Co		ction		<u> </u>					
						OPERAT	OR		🛛 Initia	l Report		Final Report			
Name of Co	mpany C	onocoPhilli	os Comp	any			nneth N. Ande	ersen				<b>^</b>			
		ook, Odessa				Telephone N	lo. 505.676.23	71.556	9						
		Unit Btry #					e Oil and Gas								
Surface Ow				Mineral C	wner	BLM			Lease No LC - 029410A						
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E-mail Add	E-mail Address: ken.n.andersen@conocophillips.com						of Approval:			Attache	d 🗌				
Date: 10/		onal Sheets 1		505.676.2371.556	59										

# Appendix I



PHONE (50.5) 397-6388 • FAX (505) 397-0397 • 1324 W. MARLAND • P.O. 80X 805 • HOBBS. NM 88241-0805 E-MAIL: bbc@bbcinternation@.com

### Summary of Test Boring MCA Battery 1 Injection Line Leak

The test boring at the injection line leak site at MCA Battery No. 1 was advanced to a total of 138 feet below ground surface. The boring encountered about 4 feet of Quaternary age aeolian (windblown) sand at the surface resting on a thin layer of caliche. The remainder of the boring encountered sand of the upper part of the Triassic Dockum Group.

The upper 40 feet of the Dockum Group at this location is characterized by dark red, fine grain sand. Very thin poorly cemented sand layers were also encountered in the upper portion of the boring. A slightly moist zone was encountered from about 55 feet to about 75 feet below ground surface. This zone was not saturated and soils below this zone were dry. Grain size in the Dockum Group decreased with depth in the boring. Very thin silty clay layers are common in the lower portion of the boring. Several very thin gravel layers were also encountered from about 80 feet to 138 feet.

It is unlikely that a saturated zone (groundwater) will be encountered in the Dockum Group.



## **RECORD OF SUBSURFACE EXPLORATION**

Project Name: ConocoPhillips – MCA Battery 1 4" Trunkline

Date: August 3, 2005 Logged by: Steven Bond

Borehole Number: Soil Boring 1 White Drilling

Drilled by:

Date/Time Started: Т

Drilling/Rig Method(s); \_\_\_\_\_Air Rotary\_\_\_\_\_\_

Time Completed:\_\_\_\_\_

Depth (feet)	Sample Number	Sample Interval	Sample Type	Sample Description	PID Readings (ppm)	Comments
0 - - -		0`-4` 4`-5`		Light red, fine grain wind-blown sand Buff-pink caliche		
5 - - -		5`-10'		Light red to pink, fine grain, poorly sorted sand		
		15`-26`		Dark red, fine grain, well sorted sand containing thin, poorly cemented layers, cement is likely CaCO <sub>3</sub>		
- 		26'-30'		Pale brown-red fine sand with thin CaCO <sub>3</sub> cemented zones		
- - 40 - - - 45 - - -		30'-45'		Dark red, fine silty sand containing thin CaCO3 cemented zones		
		45'-70'		Dark red, silty fine sand, slightly moist, grain size decreasing with depth		



## **RECORD OF SUBSURFACE EXPLORATION**

Depth (feet)	Sample Number	Sample Interval	Sample Type	Sample Description	PID Readings (ppm)	Comments
55				, <u>, , , , , , , , , , , , , , , , , , </u>		e
-						
-						
60 -						
-						
- 65						
-						
-						
- 70						
-						
-						
75 -		70'-80'		Dark red, silty, very fine grain sand, no moisture, thin gravel layer at base of unit		
-		1				
- 80						
-						
-		80'-88'		Dark red, silty, clayey sand		
- 85						
-						
-						
90 -						
-						
- 95						
93						
-						
- 100						
-		88`-118`		Dark red to reddish-brown silty, clayey sand		
-				with very thin, blue-gray clay layers interbedded		
105						
-						
-						
110					L	l



#### **RECORD OF SUBSURFACE EXPLORATION**

Depth (feet)	Sample Number	Sample Interval	Sample Type	Sample Description	PID Readings (ppm)	Comments
110 -						
- - 115						
-		118'-120'		Green, moderately well cemented, fine grain sandstone		
120 - -			.			
- - 125		120'-125		Pale green, very fine grain sand with thin layer of large gravel		
-						
130 		125*-138*		Red, silt with very fine sand, thin clay layers thin gravel layers		
-						
140 - -						
- - 145 -						
-						
150 - -						
- 155 -						
- - 160						
160 - - -	-					
- 165						

Comments:

File Number:

#### NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

1. OWNER OF WELL	
Name: ConocoPhillips	Work Phone:
Contact:	Home Phone:
Address: 1000 Conoco Rd.	
City: Maljamar	State: <u>NM</u> Zip: <u>88264</u>
2. LOCATION OF WELL (A, B, C, or D required, E or F if kr	(TWO1
A1/41/41/4 Section: <b>29</b> To	
	County.
B. X =feet, Y =	
Zone in the	Grant.
U.S.G.S. Quad Map	
C. Latitude: <u>32</u> d <u>48</u> m <u>40.2</u> s Longi	tude: <u>103</u> d <u>47</u> m <u>29.2</u> s
D. East (m), North (m), U	TM Zone 13, NAD(27 or 83)
E. Tract No, Map No of the	Hydrographic Survey
F. Lot No, Block No of Unit/Tract	of the
Subdivision recorded in	County.
G. Other:	
H. Give State Engineer File Number if existing we	11:
I. On land owned by (required): <b>ConocoPhillips</b>	
3. DRILLING CONTRACTOR	
License Number: WD-1456	
Name: White Drilling Company, Inc.	Work Phone: 325-893-2950
Agent: John W. White	Home Phone: 325-893-2950
Mailing Address: <b>P.O. Box 906</b>	
	······································
City: Clyde	State: <b>TX</b> Zip: <b>79510</b>
4. DRILLING RECORD: SB-2	
Drilling began: <b>8/03/05</b> ; Completed: <b>8/03/05</b>	
Size of hole: 43/4 in.; Total depth of well: 13	
Completed well is: <b>shallow</b> (shallow, and shallow, and shallow (shallow) and shallow) and shallow (shallow) and shallow (shallow) and shallow	
Depth to water upon completion of well: <b>DRY</b>	ft.

File Number: Form: wr-20

File Number:

#### NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

#### 5. PRINCIPAL WATER-BEARING STRATA:SB-2

Depth i From	То		water-	ption of bearing format	Estimated Yield (GPM)				
5. RECORD Diamete (inches	r Pour	NG nds Thread	s Depth	in Feet Le Bottom (:	ength Type of	Shoe Perforati From To			
Depth From	in Feet To		Sacks of mud	of Cement	Method of				
<u>138.0</u> 5.0		<u>4 3/4</u> <u>4 3/4</u>	<u>19</u> 2	0.00	Pour/bentonite	e pellets ent			
Date	gging Me Well Plu	thod: gged:			·····				
Plugging	approve	d by:		State Engi	neer Representat	tive			
			Feet Cub.	ic Feet of Ceme	ent				
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File Number: Form: wr-20

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Trn Number:

#### NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD

#### 9.LOG OF HOLE:SB-2

Depth in From	feet To	Thickness in feet	Color and Type of Material Encountered
0.0	4.0	4.0	Tan sand.
4.0	5.5	1.5	Tan caliche.
5.5	26.0	20.5	Tan sand.
26.0	60.0	34.0	Red sand.
60.0	138.0	78.0	Red sandy clay.
00.0	130.0	70.0	Red Sandy Clay.
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page 3 of 4

Trn Number:

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	File Number:
	NEW MEXICO OFFICE OF THE STATE ENGINEER WELL RECORD
10.	ADDITIONAL STATEMENTS OR EXPLANATIONS:SB-2 This was an environmental soil boring.
	The undersigned hereby certifies that, to the best of his knowledge and
	belief, the foregoing is a true and correct record of the above described hole.
	$\sim$
	Driller 8/22/2005   (mm/dd/year)
	bright (mm/dd/year)
	FOR STATE ENGINEER USE ONLY
	Quad; FWL; FSL; Use; Location No
Fil	e Number: Trn Number: Form: wr-20 page 4 of 4
	Form: wr-20 page 4 of 4
	Form provided by Forms On-A-Disk · 214-340-9429 · FormsOnADisk.com

# Appendix II



PHONE (325) 673-7001 • 2111 BEECHWOOD • ABILENE, TX 79603

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

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

Receiving Date: 08/05/05 Reporting Date: 08/08/05 Project Number: NONE GIVEN Project Name: MCA BATTERY 1 4" TRUNKLINE Project Location: MALJAMAR, NM Analysis Date: 08/06/05 Sampling Date: 08/03/05 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: AH

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		CI_
LAB NUMBER	SAMPLE ID	(mg/L)
H10048-1	SB2@ 5'	3119
H10048-2	SB2@ 10'	6638
H10048-3	SB2@ 15'	4399
H10048-4	SB2@ 20'	3039
H10048-5	SB2@ 25'	3119
H10048-6	SB2@ 30'	3039
H10048-7	SB2@ 35'	768
H10048-8	SB2@ 40'	640
H10048-9	SB2@ 45'	320
H10048-10	SB2@ 50'	176
H10048-11	SB2@ 55'	176
H10048-12	SB2@ 60'	96
H10048-13	SB2@ 65'	144
H10048-14	SB2@ 70'	80
H10048-15	SB2@ 138'	128
Quality Control		1000
True Value QC		1000
% Recovery		100.0
Relative Percent D	Difference	2

METHOD: Standard Methods 4500-CI-B Note: Analysis performed on a 1:4 w:v aqueous extract.

Fullation

<u>8/8/05</u> 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 insucting 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. Inno 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	Page / of 2 ANALYSIS REQUEST																					Terms and Considerants lark with the dimension of the constraint of the dimension Solong the case of constraints of the second CASA or second from a digital data of therefore, and a cases of cost-bactores. Induction Dependent (Free,		DYes DNo Addi Phone #: DYes DNo Addi Fax #:				
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NC, 101 Fast Marlan	(505) 393-2326 Fax (505) 393-2476			ZIP: 81240	351-0357	Carpeco Phillins	at line			MATRIX	SAJI AJTAV AJTER	орало и соитан и соитан и и соитан и и соитан и и соитан и соитан		G       V	$\mathcal{G}$	G I   V	>	G				h min	וא סטראנייה, ודאטרעד ארוניט או אראיסטי, שאריסא דעמורקונאיז, וסא פו ושא, אי צאיר אי קרפוגיז וזאטרעד אי קרפוגין א איזידא דערתנדטא לי לשרמאל, ומאטרפא פו אומודאן איזו האינה או אומוני איזו האינה או אומי איזו איזו איזו איזו איזו א	Received By:	Boolen Bir II ah shaft			
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T Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476.

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST	Page 2 of 2	ANALYSIS REQUEST			· · · ·														Terms and Consistents lakewith the dwaped on placeman more than 30 days pass dat at the one of 24% practical from the date of bracks.		DNo Add'l Phone #: DNo Add'l Fax #:		
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	2111 Beechwood, Abilene, TX 796037 101 East (915) 673-7001 Fax (915) 673-7020 (505) 393	International, In	Reason	). Merlend	State: N. M.	63FS Fax # (CDV)	Project Owner: C	Battery 1 4' Trun	Loso N. M.	1. KAD4		Sample I.D.	C.3- '	60' 60'	65 ' 65 ' 6		1.38' 6		મે-દારેદ AOTE: Laces જા વિશાવવુલ. ઉલવાનો લોખો જાય લેખરા મરાત્રમાં મળાવવું કરે તેવીલ શોભવું બોલોલ બિલ્લો કે જે બેલા કે જે બેલા કે જે વેલા કે કે બેલા કે બેલા કે જે બેલા કે બે	ההשמוע א מהאישעמוא מווואסיון אלומע אלומע א נו זא מוזעוואנעי ואימעמע אי כעמען ו	1	Date: Re Time:	Dae)
ABOINIAL	2111 Beec) 2111 Beec) (915) 673	Company Name: 20C	Projact Managar. Clify	Agaress: 1324 W	City: Halbs	Phone # (Soc) 397 -	Project #.	Project Name: MOA	Project Location: M./	Samplar Name: Ke C	זיאיד האיטער		HIONIK-11 582 @	- 12 SR2 @	-13 582 6	-14 SR2 @	-155020		Else NOTE: Lixery xu Dennaya, Carala shee, vi amin, nundiy mae ki rayoono	מודוסי ונו זמ רוווד אישו לפודרא לי ושניים ולי המסמוש מי מסופר לווווים לי אונוטאטו באלוך נוג גו עו ומנוסו וז לי אמושעו	Sampler Rallnqulahed:	Reilnqulsnea By:	Dolivered By: (Circle One) Sampier-UPS - Bus - Other:

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

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