13 February 2006

Mr. Larry Johnson, Environmental Engineer New Mexico Oil Conservation Division 1625 North French Drive Hobbs, New Mexico 88240

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Re:

Initial C-141

Chesapeake Energy Lou Worthan Produced Water Release – Reference #160045 UL-D, Section 11, Township 22 South, Range 37 East Latitude N 32° 24' 39.18" and Longitude W 103° 08' 23.09"

Dear Mr. Johnson:

Environmental Plus, Inc. (EPI), on the half of Mr. Bradley Blevins, Chesapeake Energy Corporation (Chesapeake), submits the attached New Mexico Oil Conservation Division (NMOCD) form C-141 for the above-referenced leak site, located on land owned by Irvin Boyd.

The site is located approximately 3 miles southeast of Eunice, New Mexico (reference Figure 1). Information obtained from the New Mexico Office of the State Engineer's website and a United States Geological Survey (USGS) database indicates there are no water supply wells within a 1,000foot radius of the release site. However, there are two water supply wells located within a 1.0-mile radius of the release site (reference Figure 2). Groundwater level data indicates an average depth to water of approximately feet below ground surface (reference *Table 1*). The attached site information and metrics form ranks the site in accordance with the NMOCD Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993).

Approximately 150 barrels of produced water was released as the result of the structural integrity of the water transfer line failing. Approximately 130 barrels were recovered and the line was repaired with a pvc collar, section of pvc pipe and 3" compression dresser sleeve (reference *Photograph #1*).

Chersake 147179

application - pPACO60472783

EUNICE, NEW MEXICO 88231

VIRONMENTAL



Should you have any questions or concerns please feel free to contact me at (505) 394-3481 or via e-mail at iolness@envplus.net. Mr. Bradley Blevins can be contacted at (505) 391-1462 ext. 6224 or via e-mail at bblevins@chkenergy.com. All official communication should be addressed to:

Mr. Bradley Blevins Chesapeake Energy P.O. Box 190 Hobbs, New Mexico 88240-0190

Sincerely,

ENVIRONMENTAL PLUS, INC.

Iain Olness, P.G.

Hydrogeologist

cc: Bradley Blevins, Chesapeake Energy – Hobbs, NM

Curtis Blake, Chesapeake Energy - Hobbs, NM

Jace Marshall, Chesapeake Energy – Oklahoma City, OK

Irvin Boyd, Landowner

File

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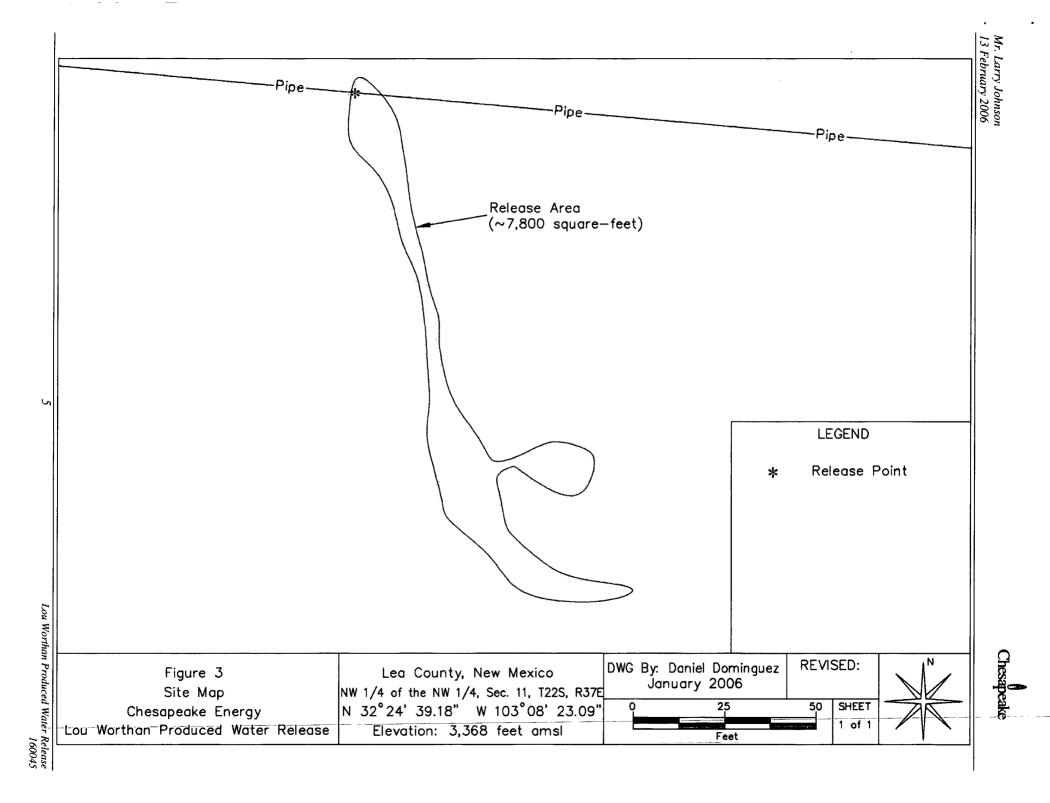


TABLE 1

Well Data

Chesapeake Energy - Lou Worthan Produced Water Release (Ref. # 160045)

Well Number Diversion ^A Owner		Owner	Use	Twsp	Rng	Sec q q q	Latitude	Longitude	Date Measured	Surface Elevation ^B	Depth to Water	
CP 00188 DCL	0	GEORGE W. SIMS	DOM	22S	37E	01 444	N32° 24' 48.51"	W103° 06' 42.84"		3,349	(ft bgs)	
CP 00929 EXPLORE	0	STATE OF NM STATE ENGINEER	EXP	22S			N32° 24' 48.58"	W103° 08' 30.64"	-	3,379	+	
OP 00195 DCL		<u> </u>	DOM	22S				W103° 07' 29.08"		3,350		
CP 00189 DCL	0	GEORGE W. SIMS	DOM	22S	37E		N32° 23' 43.32"	W103° 07' 29.08"		3,340	 	
CP 00199 DCL	0	LEO SIMS	DOM	22S	37E	14 242	N32° 23' 30.28"	W103° 07' 44.48"		3,330		
CP 00555 EXP	0	NORTHERN NATURAL GAS CO.	SAN	22S	37E	14 22	N32° 23' 43.32"	W103° 07' 44.48"		3,337		
P 00581	3	NORTHERN NATURAL GAS CO.	SAN	22S	37E	14 222	N32° 23' 43.32"	W103° 07' 44.48"	18-Apr-79	3,337	65	
P 00662	3	GEORGE SCHELLER	DOM	22S	37E	15 133	N32° 23' 30.26"	W103° 09' 32.15"	20-Jul-83	3,406	150	
P 00673 EXP	-0	PAUL E. & MARY HUGHES	DOM	22S	37E	15 22	N32° 23' 43.32"	W103° 08' 46.04"		3,398		
P 00674	3	WARREN & VERNA HUGHES	DOM	22S	37E	15 11	N32° 23' 43.31"	W103° 09' 32.15"	27-Mar-85	3,406	75	
P 00675	3	FRED FERBRACHE	DOM	22S	37E	15 122	N32° 23' 43.31"	W103° 09' 16.78"	12-Apr-85	3,402	Ī	
P 00684	3	WARREN & VUNA HUGHES	MUL	22S	37E	15 11	N32° 23' 43.31"	W103° 09' 32.15"	01-Aug-85	3,406	180	
P 00699	3	MARTIN CARRASCO	DOM	22S	37E	15 1	N32° 23' 30.26"	W103° 09' 32.15"	02-Jun-86	3,406	100	
P 00313 DCL	0.	WILLIEP SIMS	STK	22S	37E	15 3 3 3	N32º 23' 4.17"	W103° 09' 32:14"	and the second s	> 3;385 ∵		
P 00679	3	FRED EBRBRACHE	DOM:	22S	37E	15 3.3	N32°/23' 4.17"	W103° 09' 32:14"	20-May-85	3,385	98	
	3.	ROBERT A CUETO	DOM:	-228-	37E	15	N32° 23' 4 17"	W103° 09' 32-14"	15-Apr-87	3,385	185	
P 00709	3	JAMES D. SMITH	DOM	228	37E	15 342	N32° 23' 4.17" - *	W103° 09' 16 78"	29-Apr-87	3,389	87	

^B= Elevation interpolated from USGS topographical map based on referenced location.

EXP = Exploration

MUL = 72-12-1 Multiple domestic households

DOM = 72-12-1 Domestic

STK = 72-12-1 Livestock watering

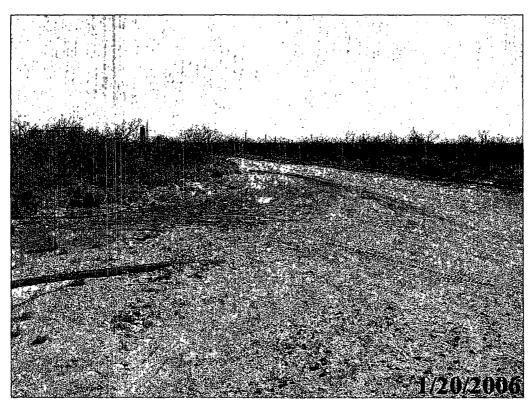
SAN = Sanitary in conjunction with commercial

quarters are 1=NW, 2=NE, 3=SW, 4=SE; quarters are biggest to smallest

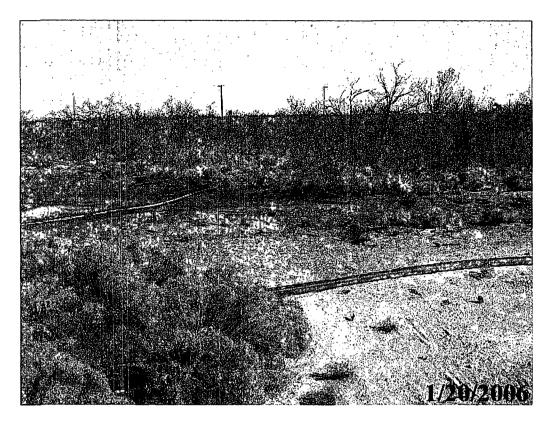
Shaded area indicates wells not shown in Figure 2



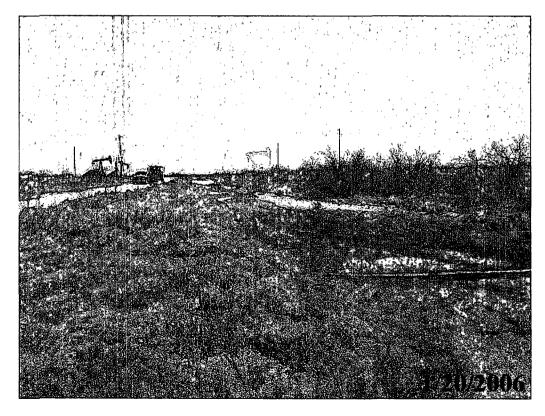
Photograph #1-The release point.



Photograph #2-Looking east at release area.



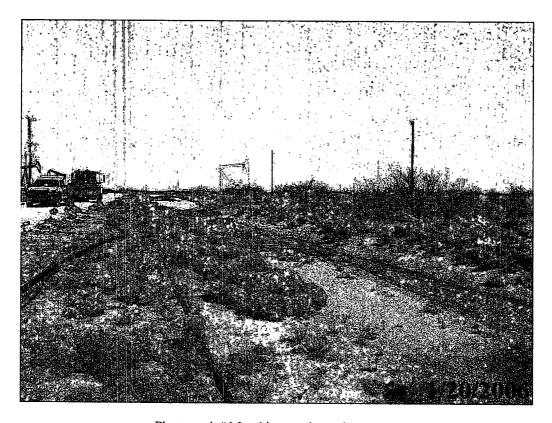
Photograph #3-Looking easterly at release area.



Photograph #4-Looking south at release area.



Photograph #5-Looking northeast at release area.



Photograph #6-Looking south at release area.



Chesapeake

Incident Date: 20 January 2006

NMOCD Notified: 20 January 2006

Information and Metrics

Site: Lou Worthan Produced Water Release Assigned Site Reference: #160045

Company: Chesapeake Energy

Street Address: 1616 West Bender

Street Address: 1616 West Bender **Mailing Address:** P.O. Box 190

City, State, Zip: Hobbs, New Mexico 88240

Representative: Bradley Blevins

Representative Telephone: (505) 391-1462 ext. 6224

Telephone:

Fluid volume released (bbls): ~150 barrels

Recovered (bbls): ~130 barrels

>25 bbls: Notify NMOCD verbally within 24 hrs and submit form C-141 within 15 days.
(Also applies to unauthorized releases >500 mcf Natural Gas)

5-25 bbls: Submit form C-141 within 15 days (Also applies to unauthorized releases of 50-500 mcf Natural Gas)

Leak, Spill, or Pit (LSP) Name: Lou Worthan Tank Battery

Source of contamination: Water transfer line

Land Owner, i.e., BLM, ST, Fee, Other: Irvin Boyd

LSP Dimensions: 100 feet by 78 feet

LSP Area: $\sim 7,800 \text{ ft}^2$

Location of Reference Point (RP):

Location distance and direction from RP:

Latitude: N 32° 24' 39.18" Longitude: W 103° 08' 23.09"

Elevation above mean sea level: 3,368 feet

Feet from North Section Line:

Feet from West Section Line:

Location- Unit or 1/41/4: NW1/4 of the NW1/4 Unit Letter: D

Location- Section: 11 Location- Township: T22S

Location- Range: R37E

Surface water body within 1000 ' radius of site: none

Domestic water wells within 1000' radius of site: none

Agricultural water wells within 1000' radius of site: none

Public water supply wells within 1000' radius of site: none

Depth from land surface to groundwater (DG): ~117 feet

Depth of contamination (DC): unknown

Depth to groundwater (DG – DC = DtGW): ~ 117 feet

1. Groundwater	2. Wellhead Protection Area	3. Distance to Surface Water Body			
If Depth to GW <50 feet: 20 points	If <1000' from water source, or;<200' from	<200 horizontal feet: 20 points			
If Depth to GW 50 to 99 feet: 10 points	private domestic water source: 20 points	200-1000 horizontal feet: 10 points			
If Depth to GW >100 feet: 0 points	If >1000' from water source, or; >200' from private domestic water source: 0 points	>1000 horizontal feet: 0 points			

Site Rank (1+2+3) = 0

Total Site Ranking Score and Acceptable Concentrations								
Parameter	>19	10-19	0-9					
Benzene ¹	10 ppm	10 ppm	10 ppm					
BTEX ¹	50 ppm	50 ppm	50 ppm					
TPH	100 ppm	1,000 ppm	5,000 ppm					
1100 ppm field VO	OC headspace measurement ma	y be substituted for lab analysis						



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

Santa Fe, NWI 6/303													
Release Notification and Corrective Action													
OPERATOR													
Name of Company: Chesapeake Energy						Contact: Bradley Blevins							
Address: P.O. Box 190						Telephone No.: (505) 391-1462 ext. 6224							
Facility Name: Lou Worthan Produced Water						Facility Typ	e: Water tran	sfer line					
Release													
Surface Owner: Irvin Boyd Mineral Own)wn	er:		Lease I	Vo.:				
LOCATION OF RELEASE													
Unit Letter				Nor	th/South Line	Feet from the	e East/West Line			County			
D	11	22S	37E								a		
Latitude: N 32° 24' 39.18" Longitude: W 103° 08' 23.09"													
NATURE OF RELEASE													
Type of Relea Source of Rele						Volume of Re Date and Hou		Volume Recovered: ~130 bbls Date and Hour of Discovery:					
Source of Ken	case. Water	transici inic				January 20, 20	@ 0800	er y.					
Was Immedia	te Notice (., 🗆	N. C. N. A. D.	. ,	If YES, To Whom?							
			r es 🗀	No Not Requ	urea								
By Whom? Bo						Date and Hour: January 20, 2006 @ 10:30 A.M. If YES, Volume Impacting the Watercourse:							
was a water	ourse Kea		Yes 🛛 1	No		Not Applicable							
If a Watercou	rse was In	pacted. Desc	ribe Fully	* Not Applicable		<u></u>					-		
				on Taken.* The re proximately 130 ba									
					ureis	were recovered r	rom the site. The	ille was repaire	u wiiii a	i pve co	ilar,		
section of pvc pipe and 3" compression dresser sleeve. Describe Area Affected and Cleanup Action Taken.* Approximately 7,800 square-feet of surface area was impacted by the release. Saturated										rated			
soil is being ex	cavated an	d transported	to Sundan	ce Services, Inc. di is true and complet	sposa	l facility.	vyladaa and unda	ratand that murau	ont to N	MOCD	mulaa		
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													
				ailed to adequately									
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.										Sibility			
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Signature: Frankley Blevi						Approved by District Supervisor:							
Printed Name: Bradley Blevins							!						
Title: Field Supervisor						Approval Date: Expiration Date:			Date:				
E-mail Address: bblevins@chkenergy.com						Conditions of Approval:			ا امط				
Date: 2 - 13 - 06 Phone: (505) 391-1462 ext. 6224						•			Attaci	hed _			
		Phone: (5									<u> </u>		

