



Whole Earth Environmental, Inc.

2103 Arbor Cove Katy, Tx. 77494 281.394.2050 whearth@msn.com

December 14, 2009

1301 West Grand Ave. Artesia, NM 88210

Attn: Sherry Bonham

Dear Ms. Ronham:

Enclosed, please find a copy of our proposed remediation protocol for the Melrose Energy Conoco 7 State no. 3 location.

Please review and advise of any requested amendments.

Warmest personal regards,

Mike Griffin President Whole Earth Environmental, Inc.



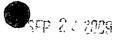
Exhibit Index

- A. C-141 Spill Report
- B. NMOCD Ranking Worksheet
- C. Satellite View of Location Zoom In
- D. Satcille view of Location Zoom Out
- E. USGS 7.5' Map Zoom In
- F. USGS 7.5' Map Zoom Out
- G. Plat Map of Location
- H. Boring Log

District 1 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**



Form C-141 Revised October 10, 2003

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

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

Release Notification and Corrective Action											
					,	OPERA	ГOR	Initi	al Report		Final Report
Name of	Company	y Melrose (Operating	Company 184	860		Barry Archer				
Address		Wilshire Bl					No. 405-848-40	012			-
Facility Na	me Cond	oco 7 State E	Battery (203		Facility Typ	e Battery				
Surface Owner Mineral Owner							Lease No.				
30-015	-2369	4		LOCA	TIO	N OF REI	LEASE				
Unit Letter Section Township Range Feet from the North/							Feet from the	East/West Line	County		
E	7 19S 29E							Eddy			
Latitude N32.67714 Longitude W104.11526											
						OF REL					
Type of Rele	ase Produ	uced oil and w	ater	NAI	UKE	Volume of		ls Volume l	Recovered		
		to heater rupti					lour of Occurrenc		Date and Hour of Discovery		
						09/09/09		09/09/09			
Was Immedi	ate Notice (Given?	Yes	No 🗌 Not Re	quired	If YES, To	Whom?				
By Whom?	Gary Newto	on, Field Supe	ervisor			Date and Hour 9/09/09					
Was a Water	course Reac	hed?	Yes 📐	No		If YES. Volume Impacting the Watercourse.					
If a Waterco	urse was Im	pacted. Descri	be Fully.*	,		1					
No	·	•	·								
No											
Describe Car	se of Proble	em and Remed	dial Action	Taken.*					-		
Line to heate	r ruptured c	ausing dischar	rge in bern	ned battery area	Truck	used to pull flu	uid from battery.				
Describe Are	a Affected a	and Cleanup A	oction Tak	en *							
Within tank l	permed area.										
								imple soil in and a		with (OCD present
and send sam	iples to Carc	linal Labs. Re	emove all	contaminated soil	and ba	ack fill with cle	an soil, install lin	er and rebuild tan	c battery.		
								derstand that purs			
regulations a	II operators a	are required to	report an	d/or file certain re	elease n	otifications an	d perform correct	ive actions for rele port" does not reli	eases which i	nay en	danger
should their o	perations ha	ave failed to a	dequately	investigate and re	mediat	e contamination	on that pose a thre	at to ground water	eve the opera , surface wat	ator of er, hun	nan health
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											
tederal, state.		s and/or regu			T		OIL CONS	SERVATION	DIVISIO	NI	
~.	A1.~	da s	M T				OIL CONS	LICVATION			
Signature [.]	1100	when ?		,					Remediation A	ctions to	be completed and

* Attach Additional Sheets If Necessary

E-mail Address: hterry@melroseenergy.com

Phone: 405-848-4012

iSEB 0929949893 19EB 092996000 3EB 0929950245

9/23/09

Printed Name: Linda G. Terry

Regulatory Agent

Title:

my Expiration Date: 12-26-09 Approval Date: 10-26-09

SEE ATTACHO

Approved by District Supervisor:

Expiration Date.

Final C-141 submitted with confurnation

analyses/documentation on or before the



New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson

Governo

Joanna Prukop Cabinel Secretary Reese Fullerton Deputy Cabinet Secretary Mark Fesmire
Division Director
Oil Conservation Division



October 26, 2009

Melrose Operating Co PO Box 953 Midland, TX 79702

Reference:

Conoco 7 State Battery 30-015-23694 E-7-19S-29E Eddy County, New Mexico

2RP-355

Operator.

The New Mexico Oil Conservation Division District 2 Office (OCD) is in receipt of an Initial Report C-141 for a release of produced oil and water occurring at the above referenced facility on or about September 9, 2009. Stated on the C-141 is, "Remove all vessels from battery area and haul off top 2 ½ ft of soil to Lea Land Disposal. Sample soil in and around battery with OCD present and send samples to Cardinal Labs. Remove contaminated soil and back fill with clean soil, install liner and rebuild tank battery."

The Initial Report C-141 is accepted with the following stipulations:

- Notify the OCD 48 hours prior to obtaining samples (preliminary, confirmation, and all additional) where analyses are to be submitted to the OCD.
- Contaminated soils shall be remediated so that residual contaminant concentrations are below the site specific recommended soil remediation action levels. Confirmation delineation soil analyses reflecting chloride, TPH, and BTEX will be required.
- Remediation requirements may be subject to change as site conditions warrant.
- Results of analytical data obtained through sampling shall be forwarded to OCD for approval prior to any backfilling activities.
- Final remediation actions are to be completed and a Final Report C-141 with supporting documentation is to be submitted to the OCD on or before December 26, 2009.

Remediation requirements may be subject to other federal, state, and local laws or regulations.

Please be advised that NMOCD acceptance and/or approval of documents or work plans 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 and/or approval of documents or work plans do not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If I may be of further assistance regarding this matter or if you have any questions, please feel free to contact me.

Respectfully,

Sherry Bonham
NMOCD District 2
1301 W Grand Avenue
Artesia, NM 88210
575.748.1283 ext. 109
sherry.bonham@state.nm.us



SITE ASSESMENT CRITERIA (NMOCD)

LERUSE OPERATING

CONOCO 7 STATE #3 TANK BATTERY UL/F SEC 7 - T19S - R29E

GPS LAT & LON NAD27 N32.67685 / W104.11491

DTW: 140'>150' according to Cheron Texaco water data map for Eddy Co.

DEPTH TO GROUND WATER

(Vertical distance from	om contaminants to seaso	onal high water elevation of ground wate	r.)
Less than 50' BGS	(20 points)		
50' to 99' BGS	(10 points)		
Greater than 100' BGS	(0 points)	0	
W	ELLHEAD PRO	TECTION AREA	
(Less tan 200' from a priva	te domestic water source	e, or; less than 1000' from all other water	sources)
YES	(20 points)		
NO	(0 points)	0	
DISTA	ANCE TO SURFA	ACE WATER BODY	

(Horizontal distance to perennial la	akes, ponds,	rivers, streams,	creeks, irrigation	1 canals, and	ditches)
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Less than 200' (20 points) 200' to 1000' (10 points)

Greater than 1000' (0 points) 0

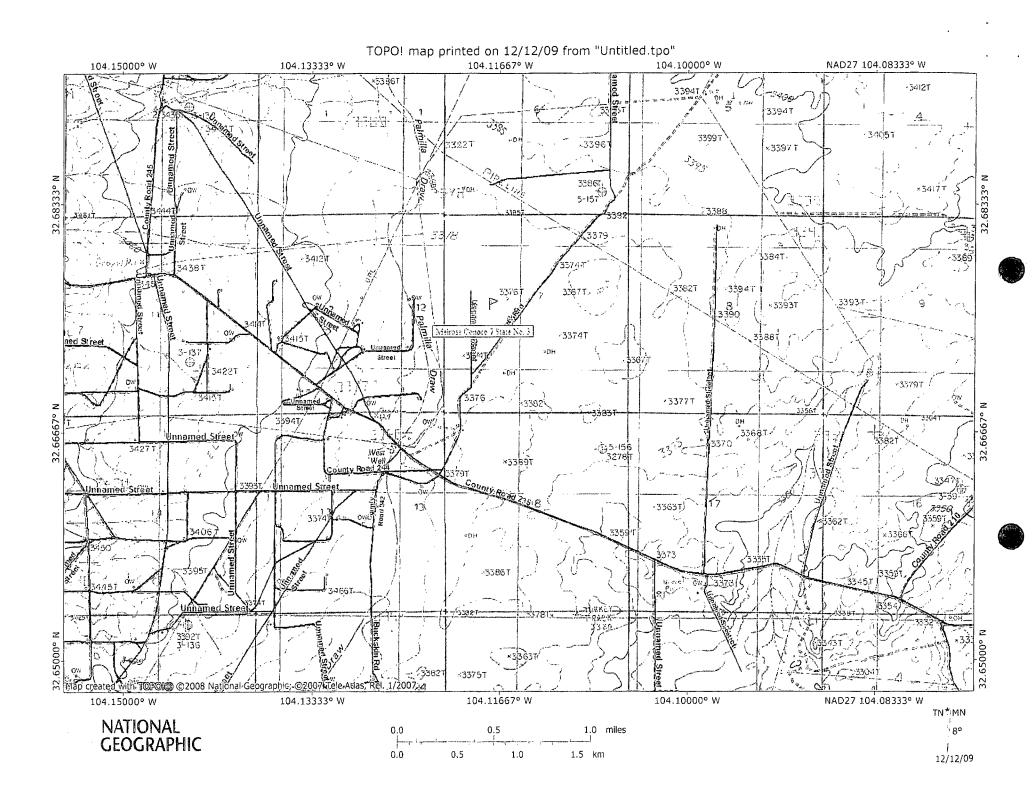
RANKING SCORE TOTAL POINTS 0

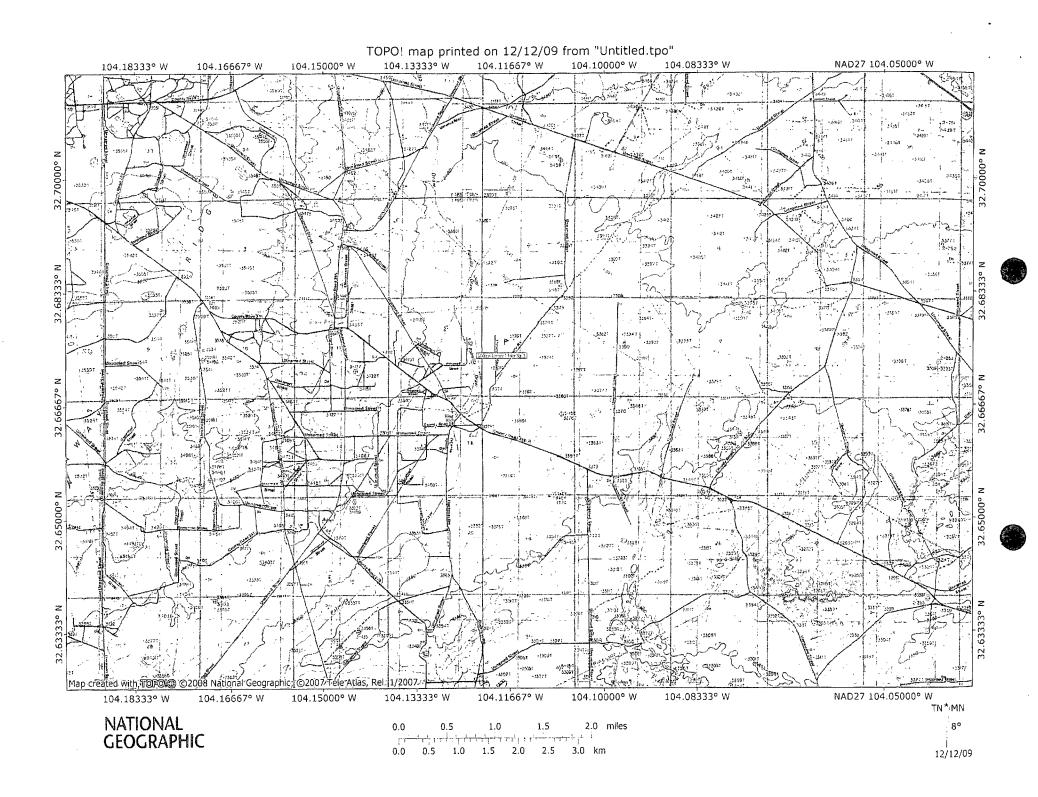
CLEAN - UP TARGET CONCENTRATIONS FOR "SITE CLOSURE"

IF RANKING SCORE IS:	> 19	10 - 19	0 - 9
BENZENE (ppm)*	10	10	10
BTEX (ppm)*	50	50	50
TPH (ppm)**	100	1000	5000

^{*}A field vapor headspace measurement of 100 ppm may be substituted for a laboratory analysis.

^{**} The contaminant concentration for TPH is the concentration above background levels.



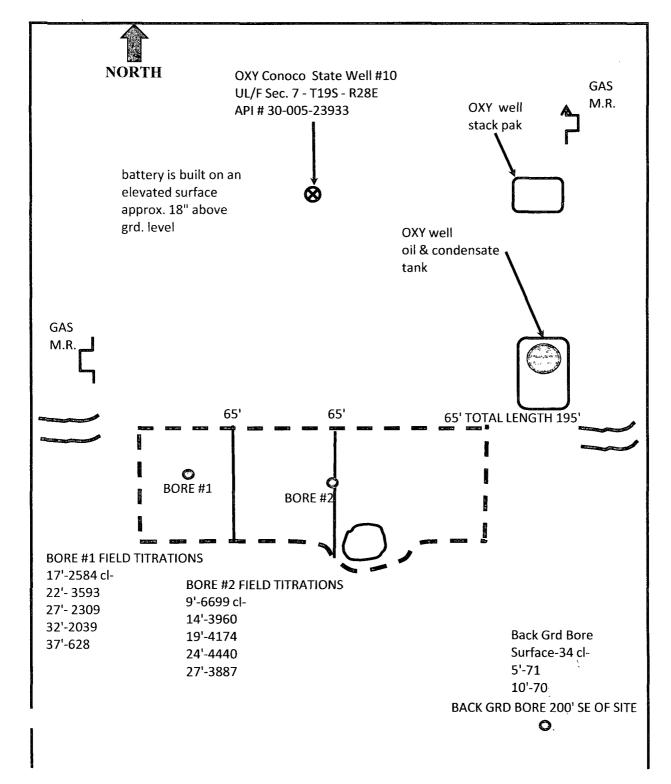


Meirose Energy Co.

Conoco 7 State #3 Tank Battery UL/F Sec. 7 - T19S - R29E

GPS LAT & LON NAD27 (DECIMAL) N32.67685 / W104.11491

WATER LEVEL: Approx. 140' to 150' bgs



							Chloride Delineation Boring Log of Melrose Conoco 7 St. No. 3						
		5000				Client				ramco/Jay Mgmt	Drill Method	Solid Stem Auger	
					Project				onoco 7 St. No. 3	Borehole Dia.	5 1/4"		
Whole Earth Environmental, Inc.								Location		ea County, N.M.	Total Depth	35' bgs	
2103 Arbor Cove							Latitude		32.67685N	- Driller	Whole Earth		
Katy, Tx. 77494						ı	ongitude		104.11491W	Bore Purpose	Delineation		
		281.394.2050 mikeg@vadose.us				Date Drilled				12/11/2009	Status	Grouted	
		Hirkeg@vadose.us				Date Completed				12/11/2009	Technician	R. Rascon	
		Subsurface	Prof	ile					T	T			
			terval evation Recovery			Ch	orides (mg /Kg)	Depth				
			_ ह है		2000 4000			8		Notes			
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36		<u>_</u>		-37		610	<u> i i</u>	1 1	1				



Melrose Energy Co. Conoco 7 State No. 3 Battery

i.0 Purpose

This protocol is to provide a detailed outline of the steps to be employed in the remediation and closure of the Conoco 7 State No. 3 location in Eddy County. New Mexico.

2.0 Scope

This protocol is site specific for the Conoco 7 State No. 3 remediation project.

3.0 Preliminary

Prior to any field operations, Whole Earth Environmental shall conduct the following activities:

3.1 Client Review

- 3.1.1 Whole Earth shall meet with cognizant personnel within Melrose and the NMOCD to review and approve this protocol.
- 3.1.2 Changes to this protocol will be documented and submitted for final review by all parties prior to the initiation of actual field work.

4.0 Safety

- **4.1** Prior to work on the site, Whole Earth shall obtain the location and phone numbers of the nearest emergency medical treatment facility. We will review all safety related issues with the appropriate Client personnel, sub-contractors and exchange phone numbers.
- **4.2** A tailgate safety meeting shall be held and documented each day. All subcontractors must attend and sign the daily log-in sheet.
- **4.3** Anyone allowed on to location must be wearing sleeved shirts, steel toed boots, and long pants. Each vehicle must be equipped with two wav communication capabilities.

PR-132 Page 2

4.4 Prior to any excavation. New Mexico One Call will be notified. If times are discovered within the area to be excavated they shall be marked with pin flags on either side of the line at maximum five-foot intervals.

5.0 Remediation

- **5.1** All tanks and ancillary equipment will be moved from their existing location to permit access to the affected area.
- 5.2 The battery area will be cored to a depth necessary to demonstrate chioride concentrations of <1,000 ppm, TPH concentrations <500 ppm and benzene concentrations <10 ppm are achieved. The highly contaminated soils shall be excavated and transported to commercial disposal. The remaining soils shall be excavated to practical vertical extent and set aside to be mixed and blended with native topsoils. A high density polyethylene liner will be installed at a minimum depth of six feet below ground surface to serve as a retardant to future vertical migration of the contaminants of concern.
- 5.3 The area within containment shall be backfilled with soils tested as being within the concentrations specified within paragraph 5.2 of this protocol. The initial backfill should bring the excavated area to ground level. Containment berms of sufficient dimensions to contain 1.5 times the capacity of all storage vessels and related piping shall be installed at the battery perimeter and the entire battery area will be covered with a twenty mil high density polyethylene liner. Prior to laying the liner, the sub strait materials will be inspected to insure that no sharp or protruding objects may endanger the liner's integrity.
- **5.4** A light covering of caliche shall be placed atop the liner to anchor it in place.

6.0 Closure Report

6.1 At the conclusion of the project, Whole Earth shall prepare a closure report that contains the following minimum information:

- Photographs of the location prior to remediation
- Photographs of the site at the point of maximum excavation
- Final photographs of the restored site
- Satellite photographs of the location
- Copies of this protocol
- Disposal manifests of all soils sent to commercial disposal
- Laboratory analytical reports