1625 N. French Dr., Hobbs, NM 88240 **Energy Minerals and Natural Resources**

Revised June 10, 2003

District II

1301 W. Grand Avenue, Artesia, NM 88210

Distric III

1000 Rio Brazos Road, Aztec, NM 87410

District IV

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.

1220 S. St. Francis Dr., Santa Fe, NM 87505 **Release Notification and Corrective Action OPERATOR** Name of Company **Merit Energy Corporation** Gene Brookshire Contact 505-420-5497 Address P.O. Box 69 Loco Hills, NM 88255 Telephone No. Facility Name Hudson Federal Battery Facility Type Tank Battery Mineral Owner Surface Owner BLM BLM Lease No. LC-054908 LOCATION OF RELEASE Township Unit Letter Section Range Feet from Feet from Longitude-W Latitude-N County South Line West Line 32deg 50' 19.4" 18 17S 31E 103deg 54' 8.8" Α Eddy NATURE OF RELEASE Type of Release Volume of Release Volume Recovered Crude Oil bbl 300 Source of Release Date and Hour of Occurrence Date and Hour of Discovery Water meter plugged, stock tank overflow 10/3/04 8:00 AM 10/3/04 4:00 PM Was Immediate Notice Given? If YES, To Whom? □ NO √ YES ___ Not Required Mike Bratcher, NMOCD; Paul Evans, BLM 8/11/04 4:00 PM By Whom? Gene Brookshire Was a Watercourse Reached? If YES, Volume Impacting the Watercourse l νο If a Watercourse was Impacted, Describe Fully* Describe Cause of Problem and Remedial Action Taken. * Water meter plugged off causing stock tank overflow within tank battery containment area. Meter was repaired; vacuum truck recovered 285-bbl of 300-bbl release. Describe Area Affected and Cleanup Action Taken. * Area within battery (58' X 72') excavated to 5-6-ft level. Soil was stockpiled and blended to below CoC concentration action levels (5000, 50, 10) for this site. Blended soil returned to excavation as backfill, and utilized for rebuilding firewall around battery. 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 NIMOCO 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 total laws and/or regulations. OIL CONSERVATION DIVISION Signature: 🕆 T. Carem by White Brentelox Printed Name: John Good Approved by District Supervisor: Title: Consultant - SESI Approval Date: 2/9/05 | Expiration Date: N/# Conditions of Approval E-Mail Address: ballen@sesi-nm.com Attached

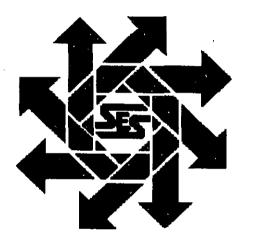
505-397-0510

12/11/2004 Phone:

Date:

Merit Energy Hudson Federal Battery Final C-141 Closure Documentation UL-A, Section 18, Township 17S, Range 31E Eddy County, New Mexico

December 9, 2004



JAN 0 4 2005

Prepared for:

Merit Energy P.O. Box 69 Loco Hills, N.M. 88255

By:

Safety & Environmental Solutions, Inc. 703 E. Clinton Suite 102 Hobbs, New Mexico 88240 (505) 397-0510

TABLE OF CONTENTS

l.	Company Contacts	1
H.	Background	1
HI.	Contaminant and Size of Area	1
IV.	Surface and Ground Water	1
٧.	Soils	1
VI.	Vertical and Horizontal Contaminant Extents	1
VII.	Remediation Activities	1
VIII.	Closure Justification	2
IX.	Appendices	3-12
	A. Plate 1 – Vicinity Map	
	B. Plate 2 – Site Plan	
	C. Final C-141 Form & Site Metrics	
	D. Analytical Results	
	E. Site Photos	

I Company Contacts

Gene Brookshire Merit Energy 505-677-2327 Gene.brookshire@meritenergy.com

Bob Allen SESI 505-397-0510 <u>ballen@sesi-nm.com</u>

II Background

The active Hudson Federal tank battery site is associated with the Merit Energy Hudson gathering system. The Hudson Federal Tank Battery is located in UL-A, Section 18, Township 17S, Range 31E. The releases within the tank battery area are historical in nature. The most recent release (8-11-04) resulted in a crude oil release of approximately 300-bbl, of which 285-bbl were recovered.

III Contaminant and Size of Area

The contaminants were unprocessed crude oil and produced water. The tank battery release was contained within the firewall structure of the tank battery (~58' X 72'). The crude oil and produced water associated with this release is considered RCRA Exempt oilfield waste. No evidence of other contaminants was observed.

IV Surface and Ground Water

There is no groundwater of record in this area of Eddy County according to information obtained from the New Mexico State Engineer online database. There are no water wells or surface waters within a 1000-ft radius of the site.

V Soils

The soil in the area is predominantly red sand underlain by a caliche base approximately 20-ft below average surface grade.

VI Vertical and Horizontal Contaminant Extents

The vertical extent of contamination beneath the battery location was not determined by a drilling/sampling protocol. Due to the safety concerns, it was pre-determined that the maximum excavated depth would be 5-ft., and no more than 2-ft when in close proximity to the tank perimeters. A composite analysis of the excavated spoils (for blending ratio determination) was performed on 11/29/04. This analysis yielded an average TPH⁸⁰¹⁵ concentration of 2600-ppm. To achieve this level of contamination in the excavated spoils, the 3-ft to 5-ft level of the excavated areas of the battery were essentially free of hydrocarbon contamination. The horizontal extents of the contaminated soil were visually discernable along the line of the battery firewall.

VII Remediation Activities

The remediation level achieved by the application of the "Guidelines for Remediation of Leaks, Spill and Releases" New Mexico Oil Conservation Division – August 13, 1993 to this site is 5000-ppm Total Petroleum Hydrocarbon (TPH⁸⁰¹⁵), 10-ppm Benzene and 50-ppm BTEX. Although not applicable to areas lacking ground water, the New

Mexico Water Quality Control Commission limit of 250-ppm chlorides (above background level) was achieved in the remediation of this site.

The construction phase for this remediation project commenced on 11-17-04 and continued through to completion on 12-1-04.

The Hudson Federal Battery excavation began with hand-excavation to determine the location of various sub-surface pipes and conduits. After all pipelines were located, backhoe excavation of the battery area commenced. Areas that could not be reached, or were unsafe for backhoe excavation, were hand excavated to a 2-ft depth. The north, east, south and a majority of the west areas of the tank battery were excavated to approximately 5-feet.

All contaminated soil excavated from the tank battery area (approximately 500-yd³) was removed and stockpiled on top of a large area of asphaltine material south of the battery location. Blending of the contaminated material was accomplished by blending in the historical asphaltine soil and the low TPH soil below this top layer (3 to 4-ft). By blending in this fashion, a final blend well below the remedial action level was achieved. The composite analysis of the final blend yielded the following results:

•		<800 ppm
•	BTEX ⁸²⁶⁰ -	<0.055 ppm
•	Benzene ⁸²⁶⁰ -	<0.005 ppm
•	Chlorides 4500CI-B -	208 ppm

The tank battery excavation was backfilled with the blended material, the battery firewall was rebuilt with the blended material and the blending area was smoothed and contoured.

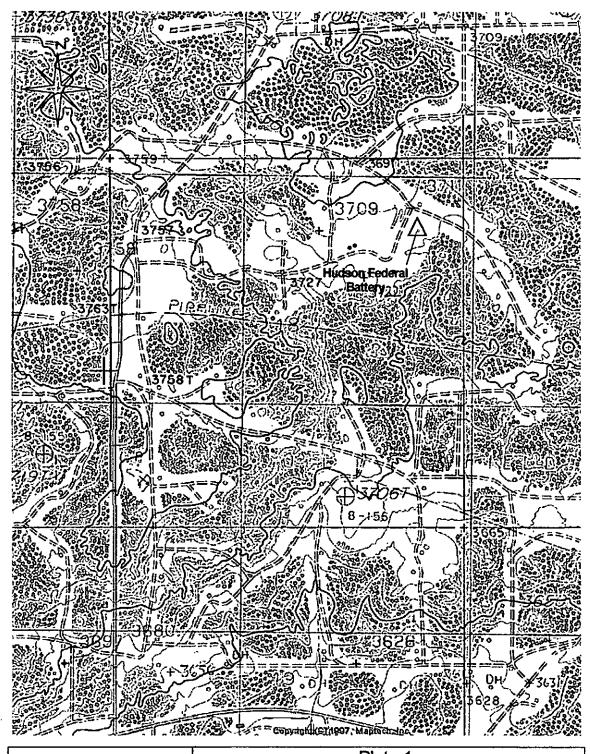
VIII Closure Justification

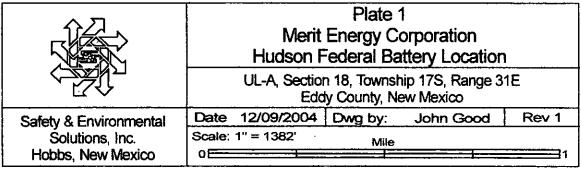
This report documents successful implementation of the Remediation Work Plan (8-13-04) approved by NMOCD for this release site. Soil contaminated above acceptable remedial concentrations was excavated, stockpiled and blended to acceptable remedial concentration levels. The excavation was backfilled with the blended material and properly contoured back to grade. Based on the data presented in this report, Safety and Environmental Solutions, Inc., on behalf of Merit Energy Corporation, requests that the NMOCD require "no further action" at the Hudson Federal Battery site.

IX. Figures and Appendices

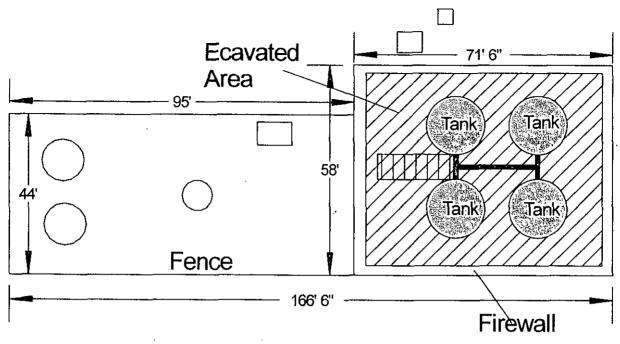
Plate 1 - Vicinity Map
Plate 2 - Site Plan
Appendix A -- Final C-141 Form & Site Metrics
Appendix B - Analytical Results
Appendix C - Site Photos

APPENDIX A: PLATE 1 Vicinity Map

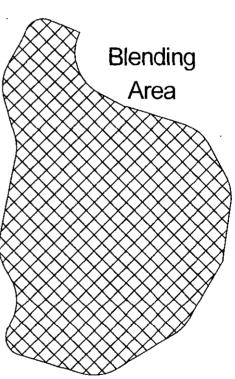


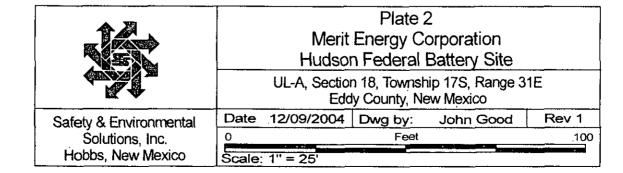


APPENDIX B: PLATE 2 Site Plan









Appendix C Final C-141 Form; Site Metrics Form Hudson Federal Battery

State of New Mexico

Form C-141

Energy Minerals and Natural Resources 1625 N. French Dr., Hobbs, NM 88240 Revised June 10, 2003

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1301 W. Grand Avenue, Artesia, NM 88210

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

Submit 2 Copies to appropriate

District Office in accordance

with Rule 116 on back

1220 S. St. Francis	Dr., Santa Fe, NM 8	37505								side of form.
		Re	elease Notific	ation a	and Co	rrective Act	ion			
	OI	PERATOR						Initia	Report 🗹 Fina	Report
Name of Compa			Corporation		Contac			rookshir	·e	
Address	P.O. 1		oco Hills, NM 882	255		one No.	505-42			
Facility Name		Hudson Fed	leral Battery		Facility	Туре	Tank F	lattery		
Surface Owner	BLM		Minera	l Owner		BLM		Lease N	o. LC-054	1908
			LOCAT	NOI!	OF RE	LEASE				
Unit Letter	Section	Township	Range	Feet	from	Feet from	Longi	tude-W	Latitude-N	County
A	18	17S	31E	South	1 Line	West Line	103deg	54' 8.8"	32deg 50' 19.4"	Eddy
			NATU	RE O	FREI	EASE			· · · · · · · · · · · · · · · · · · ·	
Type of Release						of Release		Volume	Recovered	
Crude Oil						300	bbl			bbl
Source of Relea	se				Date ar	nd Hour of Occu	ırrence	Date and	d Hour of Disco	very
Water meter p		ink overflow				10/3/04 8:00 A	M		10/3/04 4:00	PM
Was Immediate		-			1	, To Whom?				
	✓ YES	NO	Not Required			Bratcher, NMC	CD; Pa			
	Gene Brookshi	re	_ _			nd Hour	4' 41		04 4:00 PM	
Was a Watercou	irse Reached?	YES	☑ NO		NA NA	, Volume Impac	mng une	watercot	ırse	
If a Watercourse	was Impacted				1.323	_ 				
Describe Cause Water meter pl recovered 285-	ugged off caus	ing stock tank	on Taken. * overflow within	tank ba	attery c	ontainment are	ea. Mete	r was rej	paired; vacuum	ı truck
Describe Area A Area within ba (5000, 50, 10) fo	Affected and Cle ttery (58' X 72' or this site. Ble	anup Action Ta) excavated to nded soil return	5-6-ft level, Soil ned to excavatio	on as ba	ckfill, a	nd utilized for	rebuildi	ing firew	ali around batt	ery.
certain release notificat	ions and perform corre of liability should thei	ctive actions for releas r operations have failed	e to the best of my know es which mny endanger I to adequately investiga the operator of responsib	public heal ate and rem	th or the en ediate conti	vironment. The accept unination that pose a t	tance of a C- hreat to grow	141 report by and water, sur	the NMOCD marked face water, human heal	as "Final Report" doe:
Signature: Printed Name:		John Go	and and		l	OIL OIL O	nli	a La	on division mathen	
Title:		Consultant -	- SESI		Approv	al Date: 2/9	65		on Date: 🖊 🎤	, 7
E-Mail Address	12/11/2004		si-nm.com		Condit	ions of Approva				Attached

Merit	Energy Corporation	Incident Date: 8/11/04 NMOC	CD Notified: 8/11/04
"是"			
SITE:	Hudson Federal Battery	Assigned Site Reference:	MER-04-016
Company:		gy Corporation	
Street Addr			
Mailing Add			
City, State,	Zip: Loco Hills,	NM 88255	
Representa	tive: Gene Broo	kshire	
Representa	itive Telephone; 505-420-54	197	
Telephone:	7		
Fluid Volum	ne Released (bbl): > 300	Volume Recovered (bbl): 28	Net Release: > 15
		verbally within 24 hours and submit C-141 within	
]		15 days. (Also applies to unauthorized release of	
Leak Snill	or Pit (LSP) Name:	Hudson Federal Battery	- 00 mor reacurer Gady.
	Contamination:	Water meter plugged, stoc	k tank avarflow
		BLM	K tarik overnow
LSP Dimen	er, i.e. BLM, ST, Fee, Other:		b battan (tanka)
	SIONS.	58' X 72' (less area beneat	n battery tanks)
LSP Area		~3000 -ft²	
	Reference Point (RP):		
Location dis	stance and direction from RP:	·	
Latitude: No	orth	32deg 50' 19.4"	
Longitude:	West	103deg 54' 8.8"	
Elevation a	bove mean sea level (amsl):	3635 feet 1108 meters	
	om South Section Line (feet):		
	om West Section Line (feet):	· · · · · · · · · · · · · · · · · · ·	
	Jnit Letter and 1/4 1/4:	UL- A NE 1/4 of NE	1/4
Location - S		18	
		17S	
Location - 7			
Location - F		31E	
	ter body within 1000' radius of site:	0	
	ter body within 1000' radius of site:	00	
	rater wells within 1000' radius of site		<u>.</u>
Domestic w	rater wells within 1000' radius of site	e: <u> </u>	
Agricultural	water wells within 1000' radius of s	ite: 0	
Agricultural	water wells within 1000' radius of s	ite: 0	
Public wate	r supply wells within 1000' radius of	site: 0	
	r supply wells within 1000' radius of		
) from land surface to Ground Water		
) of lowest contamination (DC):	5	1
) to Ground Water (DG - DC = DtG		
(100t)	1. Ground Water	2. Wellhead Protection Area	3. Distance to Surface Water
		If <1000' from water source, or, <200'	
If Depth to	GW <50-feet: 20 points	from private domestic water source:	<200 horizontal feet: 20 points
		4 '	
If Depth to	GW 50 to 100-feet: 10 points	20 points	200-1000 horizontal feet: 10 points
<u> </u>		If >1000' from water source, or, >200'	<u> </u>
If Depth to	GW >100-feet: 0 points	from private domestic water source: 0	>1000 horizontal feet: 0 points
	•	points	
Ground Wa		Wellhead Protection Score: 0	Surface Water Score: 0
Site Rankin	g (1 + 2 + 3): 0		
	Total Site Rank	ing Score and Acceptable Concentra	tions
Parameter	20 or >	10	0
Benzene ¹	10-ppm	10-ppm	10-ppm
BTEX ¹			
	50-ppm	50-ppm	50-ppm
TPH	100-ppm	1000-ppm	5000-ppm

TPH 100-ppm 1000-ppm 1000-ppm

Appendix D Analytical Results



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

ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: JOHN GOOD 703 E. CLINTON HOBBS, NM 88240

FAX TO:

Receiving Date: 11/30/04 Reporting Date: 12/04/04

Project Number: MER-04-016

Project Name: HUDSON FEDERAL BATTERY

Project Location: NOT GIVEN

Sampling Date: 11/30/04

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC Analyzed By: BC/AH

ANALYSIS DATE	12/02/04	12/04/02	12/02/04
H9368-1 SMHFB1130-BCD	32.6	747	208
	· ·		
Quality Control	803	778	1020
True Value QC	800	800	1000
% Recovery	100	97.3	102
Relative Percent Difference	<0.1	8.1	1.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CI⁻: Std. Methods 4500-CI⁻B *Analysis performed on a 1:4 w:v aqueous extract.

Chemist

Date

H9368A.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

SAFETY & ENVIRONMENTAL SOLUTIONS, INC.

ATTN: JOHN GOOD 703 E. CLINTON HOBBS, NM 88240

FAX TO:

Receiving Date: 11/30/04

Reporting Date: 12/04/04

Project Number: MER-04-016

Project Name: HUDSON FEDERAL BATTERY

Project Location: NOT GIVEN

Sampling Date: 11/30/04

Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: BC

Analyzed By: BC

LAB NUMBER SAMPLE ID	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE	12/01/04	12/01/04	12/01/04	12/01/04
H9368-1 SMHFB1130-BCD	<0.005	<0.005	<0.005	0.040
Quality Control	0.101	0.094	0.102	0.325
True Value QC	0.100	0.100	0.100	0.300
% Recovery	101	93.7	102	108
Relative Percent Difference	3.0	0.6	0.2	1.0

METHOD: EPA SW-846 8260

Chemist

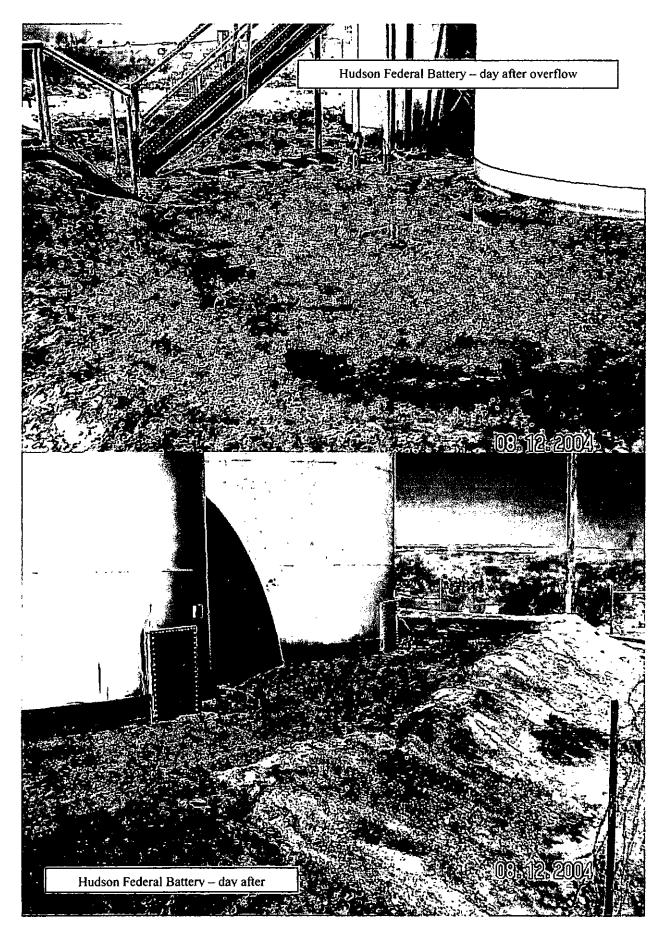
Date

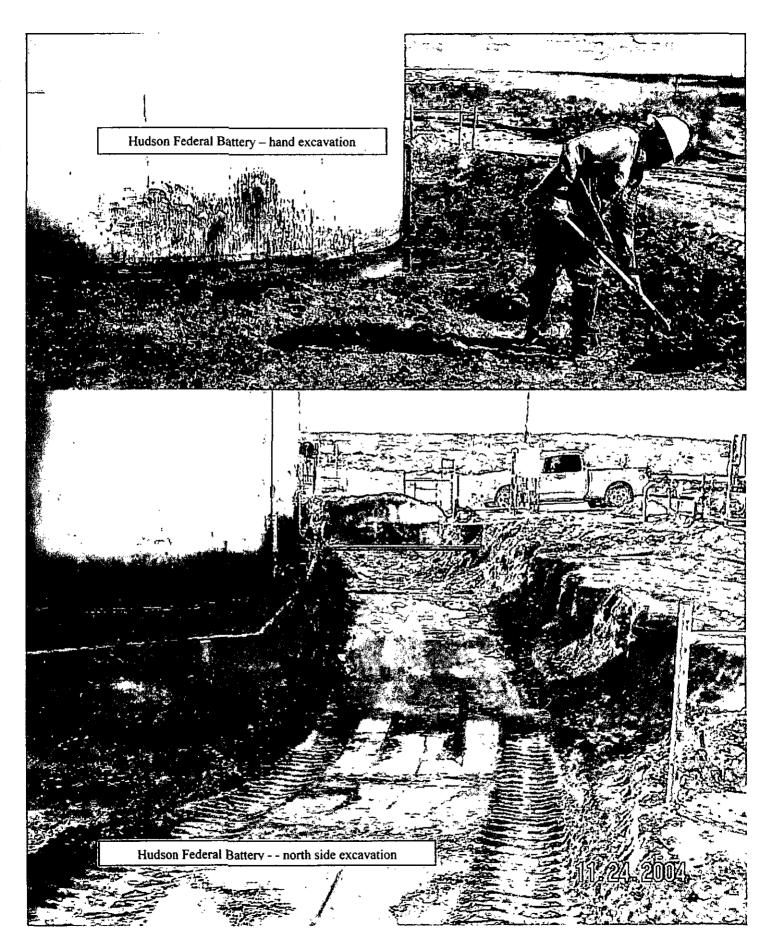
ARDINAL LABORATORIES, INC.
2111 Beechwood, Abliene, TX 79603 101 East Marland, Hobbs, NM 88240
(325) 673-7001 Fax (325) 673-7020 (505) 393-2326 Fax (505) 393-2476

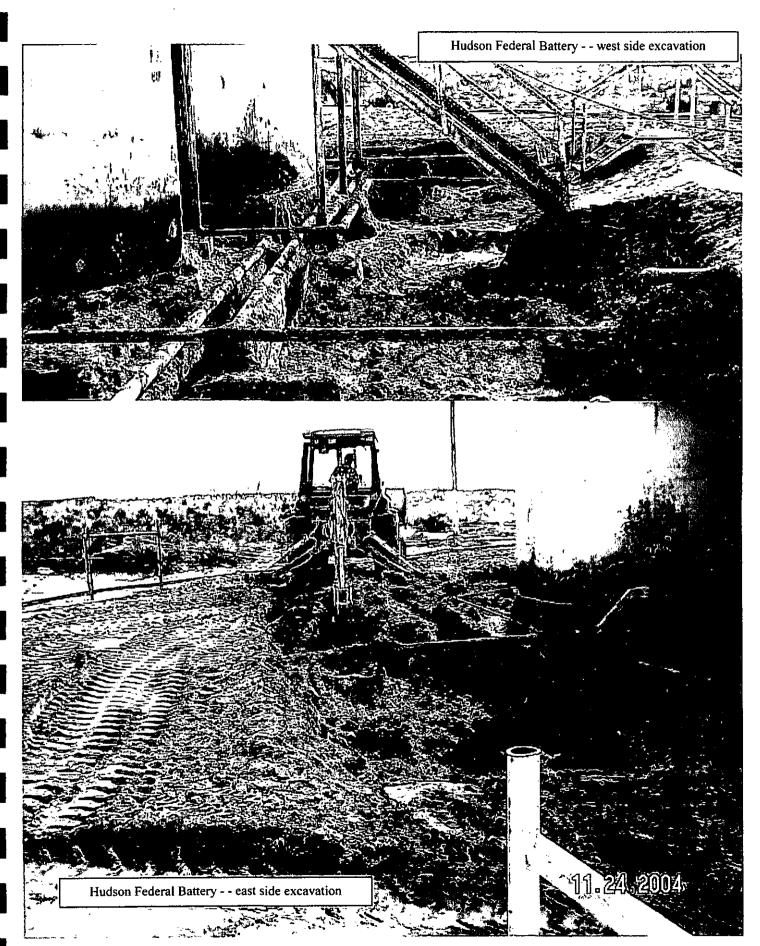
		(325) 673-7001 Fax (325) 673-7020	(505) 393-2326 Fax (505) 393-2476	5) 393-2476							Page	9	} .
DO S. COMPANY: State: NJM ZIP: SSZ40 Address: ER-04-01C Project Owner: MERIT NJERRY CHY. HADSON FRANCE POLET MERIT NJERRY CHY. HADSON FRANCE POLET MATRIX PROSESS. FAX 8: Address: ER-04-01C Project Owner: MERIT NJERRY CHY. HADSON FRANCE POLET NJERRY CHY. FAX 8: Address: ER-04-01C Project Owner: MERIT NJERRY CHY. HADSON FRANCE POLET NJERRY CHY. PROSESS. FAX 8: Address: Zip: PROSESS. FAX 8: Address: EX 90 IL JUDGE NAME THE SAMPLING THE STATE SAMPLING THE STATE SAMPLING THE SAMPLING CHARLES OF THE SAMPLING THE SAMPLING CHARLES OF THE SAMPLING CHARLES OF THE SAMPLING THE SAMPLING CHARLES OF THE SAMPLING CHARLES OF THE SAMPLING THE SAMPLING CHARLES OF THE SAMPLING CHARLES OF THE SAMPLING THE SAMPLING CHARLES OF THE SAMPLING CHARLES OF THE SAMPLING CHARLES. THE SAMPLING CHARLES OF THE SAMPLING CHARLES OF THE SAMPLING CHARLES. THE SAMPLING CHARLES OF THE SAMPLING CHARLES OF THE SAMPLING CHARLES. THE SAMPLING CHARLES OF THE SAMPLING CHARLES OF THE SAMPLING CHARLES. THE SAMPLING CHARLES OF THE SAMPLING CHARLES OF THE SAMPLING CHARLES OF THE SAMPLING CHARLES OF THE SAMPLING C	ompany Name:	SESI		8	UL 10		i		ANALY	SIS R	EQUEST		
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[†] Cardinal cannot accept verbal changes. Please fax written changes to (325) 673-7020.

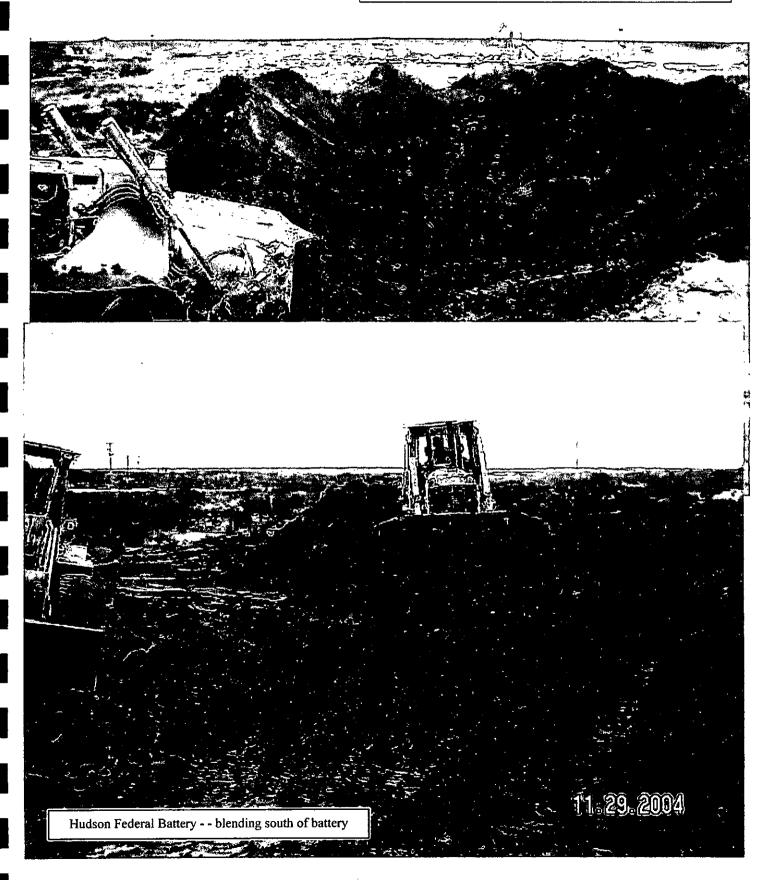
Appendix E Site Photos

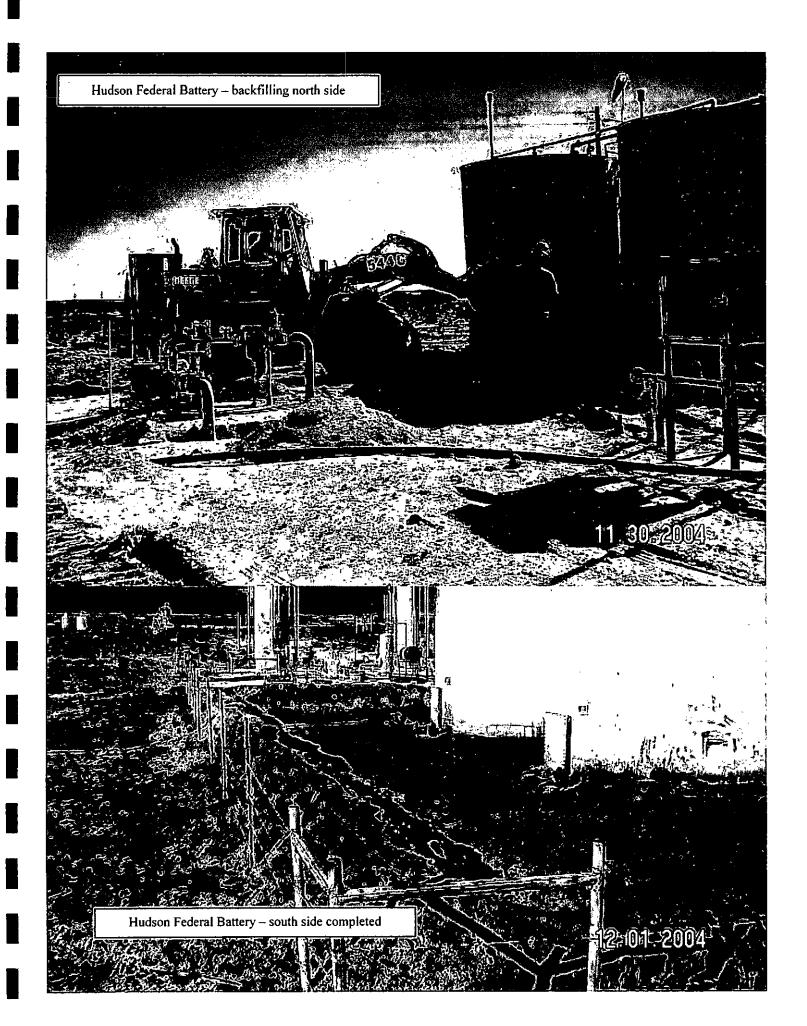


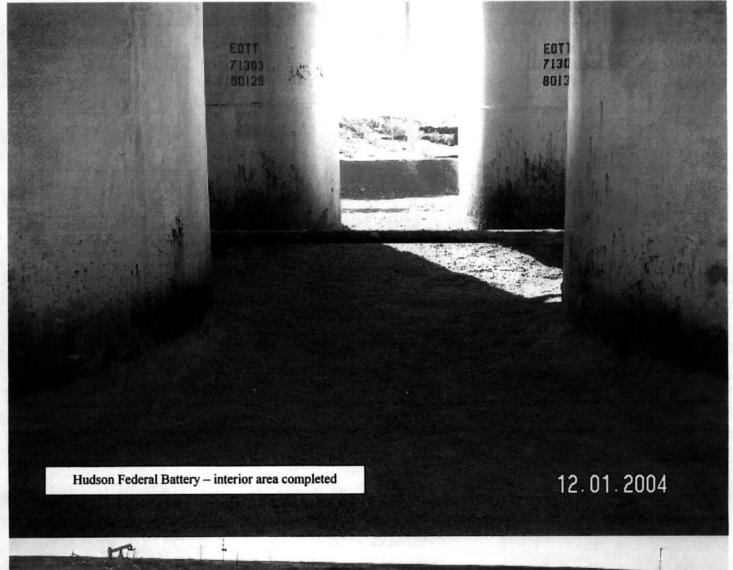




Hudson Federal Battery - - blending south of battery









Hudson Federal Battery - - blending area contoured