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

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**

MLB07/9155473			OPE	RATOR				Initial Report	$\boxtimes$	Final Report
Name of Company: Merit Energy C	ompany	14591	- 1	Contact: Dy	vain Wall					
Address: P.O. Box 69, Loco Hills N		7		Telephone N	lo.: 505-1	706-475	8			
Facility Name: Russell Turner Water	er Station		]	Facility Typ	e: Water-	flood st	ation			
Surface Owner: BLM		Mineral O	wner:	BLM			Lea	ise No.:		
		LOCA	TION	N OF REI	LEASE					
	Range Feet 31-E	from the		South Line	Feet from	the I	East/West L	ine County Eddy		
Latit	ude_32.820	15		Longitude	103.8	9701		<u>.                                    </u>		
		NAT	URE	OF RELI	EASE					
Type of Release: Crude oil				Volume of				me Recovered:		
Source of Release: tanks overfilled				Date and H 08/15/06		urrence:		and Hour of Dis 5/06 5:30 am	covery	;
Was Immediate Notice Given?				If YES, To			] 00/1.	3/06 3:30 am		
	res 🔲 No	Not Req	uired			Mike Br	atcher (OCI	<b>O</b> )		
By Whom? Mike Self				Date and H	our: 6:00	am		· · · · · ·		
Was a Watercourse Reached?				If YES, Vo	lume Impa	cting the	Watercours	se.		
	Yes 🔲 No			70 bbls						
The overflow and sump tanks both overf arroyos. The occurrence followed a heavinto the ground.  Describe Cause of Problem and Remedia An electrical failure caused injection pur personnel. Electrical service was restore  Describe Area Affected and Cleanup Act The majority of the spill was contained in Arroyo "A" started near the southern mo Arroyo "B" was affected by the northern yards from the point of origin. Please see	al Action Taken  al Action Taken  ps to shut do  d and pumps  tion Taken.*  n the firewalls  st tank, the oi  most tank, th	en.*  which had sa  en.*  wm, the teleprestarted, the  s surrounding I crossed the e oil entered	chone li telephone the tandirt roa the arro	ne serving the one company aks. The oil of and ended by of following	e alarm sys made repa	etem was irs to the the firewand appro	also down rir line and r	resulting in no al estored service.  g two arroyos la 00 yards from th	arm bei	ng sent to  A" and "B". of origin.
I hereby certify that the information give regulations all operators are required to r public health or the environment. The ac should their operations have failed to add or the environment. In addition, NMOC federal, state, or local laws and/or regular	eport and/or f eceptance of a equately inves D acceptance	ile certain re C-141 repor tigate and re	lease no t by the mediate	otifications and NMOCD made contamination	d perform arked as "F on that pose the opera	corrective inal Repete to the threat torton of res	re actions fo ort" does no to ground v ponsibility t	or releases which to relieve the open water, surface water compliance v	may er rator of iter, hui vith any	ldanger liability man health
Signature:						TIN	A GUM	<u>ON DIVISIO</u>	<u> N</u>	
Printed Name: Jim Hollon				Approved by				ntla kan	Ufron	
Title: Consultant			A	Approval Date	JUL 1	0 200	2	tion Date:		
E-mail Address: jim.hollon@sbcglobal.t	net			Conditions of	Approval:			Attached		
Date: 03/26/07		432-631-57	68							
Attach Additional Sheets If Necessar	v									

\* Attach Addition CC: Opporator

(Z)

#### Continuation of area affected and cleanup action taken.

Power was restored and the pumps were restarted. A backhoe was utilized to build dams in the arroyo to prevent the flow of oil should it begin to rain again and to aid in the recovery of the oil. The backhoe was used to scrape/squeegee the flat areas and stockpile the affected soils. Vacuum trucks were utilized to recover all free liquids. Fresh water was pumped by trucks down the arroyo to flush the oil to points where vacuum trucks could recover both the oil and water. The backhoe began to blend the affected soils in arroyo "A" up to the dirt road crossing and build berms around the end of the affected areas to prevent additional migration of the oil. A total of 280 barrels of oil was recovered from the secondary containments and arroyos. The stockpiled soils were taken to CRI in Hobbs New Mexico.

During the evening and night another heavy rain event occurred. This rain event flooded the arroyos and floated the remaining unrecovered oil out of the soils. The oil was floated approximately 300 yards to a flat area where it affected the bottom six inches of the tumbleweeds and broomweed. On August 24 and 25, 2006, the affected vegetation was treated with Micro-bac M-1000, a naturally occurring microbe that assists in the degradation of hydrocarbons. A spray rig with a hand wand was utilized to wash and treat the vegetation as well as all affected soils in the spill area.

Additional treatments will be conducted as necessary to remediate the affected areas. The average depth of the affected soils is ¼ of an inch and is very spotty throughout the affected areas.

Remediation activities are complete and analytical results are included with the attached report.



# **Closure Compliance Report**

# Project:

Russell Turner Water Station Section 20, T17S, R31E Eddy County, New Mexico

March 26, 2007

# Prepared for:

Merit Energy Company P.O. Box 69 Loco Hills, New Mexico 88255

# **Jim Hollon Consulting**

14034 W. Co. Rd. 123, Odessa, Texas 79765 (432)631-5768 Fax (432)563-1166 Jim.Hollon@SBCGlobal.net

# **Jim Hollon Consulting**

14034 W. Co. Rd. 123, Odessa, Texas79765 (432)631-5768 Fax (432)563-01166 Jim.Hollon@sbcglobal.net

March 26, 2007

Merit Energy Company
P.O. Box 69
Loco Hills, New Mexico 88255

Attn: Mr. Dwain Wall

Phone: (505) 677-2327 Fax: (505) 677-2162

Re: Closure Compliance Report

Russell Turner Water Station site

Section 20, T17S, R31E Eddy County, New Mexico 5 miles east of Loco Hills, NM

Dear Mr. Wall:

Jim Hollon Consulting is pleased to submit five copies of the Closure Compliance Report for the above referenced site.

I appreciate the opportunity to participate in the site remediation project at the Russell Turner Water Station site for Merit Energy Company. Please contact me at (432) 631-5768 if you have questions regarding the information provided in the report.

dim Hollon

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		F	Page No.
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Append	dix C:	Photographs	
Append	dix D:	Regulatory Reports	

# **Closure Compliance Report**

# Russell Turner Water Station Section 20, T17S, R31E Eddy County, New Mexico

## 1.0 INTRODUCTION

This site is located in Eddy County, New Mexico approximately five miles east of Loco Hills, New Mexico. The site is adjacent to Merit Energy's field office. The surrounding area is native rangeland in a sand hill region and is overseen by the Bureau of Land Management.

The release occurred on August 15, 2006, following a thunderstorm during a power failure. The heavy rains during the storm saturated the ground and filled the secondary containments with rain water. The release consisted of approximately 350 barrels of crude oil overflowing two tanks, labeled north and south, at the water station. Both tanks filled with oil before overflowing and filling their secondary containment, which subsequently overflowed. The oil from the north tank flowed to an arroyo east of the tank, following the arroyo approximately 3,600 feet. The oil from the south tank followed a pipeline right of way for approximately 1,800 feet. The rain saturated soils limited the absorption of oil into the soil to approximately one quarter of an inch. Approximately 280 barrels of oil were recovered from the arroyo and containments before a second thunderstorm floated the remaining oil an additional 1,800 feet down the arroyo.

## 1.1 Site Description

Site Name	Russell Turner Water Station										
Site Location/GPS	Eddy County, New Mexico / 32.82009° N, 103.89724° W										
General Site Description	The release originated at two separate tanks at the water station. Both tanks had secondary containment. The surrounding area is sandy rangeland with sparse vegetation.										

A topographic map (Figure 1) and an aerial photograph (Figure 2) are included in Appendix A.

Merit Energy Company Russell Turner Water Station Site March 26, 2007

# **Jim Hollon Consulting**

# 1.2 Scope of Services

The Scope of Services for Jim Hollon Consulting (JHC) as requested by Merit Energy (Merit) included:

- Work plan development and project oversight;
- · Collection of confirmation soil samples in the area of concern; and
- Submittal of a Closure Compliance Report detailing field activities, analytical results, site maps and photos.

# 1.3 Regulatory Framework

Crude oil facilities in New Mexico are generally regulated by the New Mexico Oil Conservation Division (NMOCD). Contamination of soil due to a surface release of crude oil is addressed within a NMOCD guideline titled *Guidelines for Remediation of Leaks, Spills and Releases*. Remediation standards for chloride contamination have not been published and are handled by the local district office on a case by case basis.

Soils which are impacted by petroleum constituents are scored according to the ranking criteria to determine their relative threat to public health, fresh water, and the environment. Such limits are defined by the depth to groundwater, wellhead protection area, and distance to surface water. Based on these ranking criteria, the remediation action level at this site is as follows:

Depth to Ground Water >200 feet Ranking Score = 0
(As defined as vertical distance from lowermost contaminants to seasonal high water level)

Wellhead Protection Area >1000 feet to water source

>200 feet to domestic well Ranking Score = 0

Distance to Surface Water >1000 feet Ranking Score = 0

Total Ranking Score = 0

Based on total ranking criteria of 0, the following remediation levels apply:

Benzene = 10 ppm

BTEX = 50 ppm

TPH = 5,000 ppm

Chlorides = Site Specific

Merit Energy Company Russell Turner Water Station Site March 26, 2007

# **Jim Hollon Consulting**

## 1.4 Standard of Care

Services were performed in a manner consistent with generally accepted practices of the profession undertaken in similar studies in the same geographical area during the same time period. JHC makes no warranties, either express or implied, regarding the findings, conclusions or recommendations. Please note that JHC can not warrant the work of laboratories, regulatory agencies or other third parties supplying information used in the preparation of the report.

## 2.0 FIELD ACTIVITIES

## 2.1 Site Remediation

Immediately upon discovery of the release, vacuum trucks were summoned to begin recovery of the oil. Additional trucks were utilized to flush fresh water down the arroyo, floating the oil to areas accessible to the vacuum trucks which recovered the oil and water. A crew was sent down the arroyo with squeegees to help push the oil down with every load of water. An estimated 280 barrels of oil was recovered from the arroyo and the secondary containments. The oil which followed the pipeline right of way was either blended with a backhoe or scraped and stockpiled. A total of approximately 24 cubic yards of soil was generated and delivered to Controlled Recovery Inc. (CRI) for disposal. Berms and dams were built in the arroyo in an attempt to control any additional migration of the oil.

During the evening a second heavy rain event occurred. The second rain event flooded the arroyo, floating the remaining oil from the soils. The oil was floated approximately 1,800 feet further down to a flat area where it affected the bottom six inches of some of the surrounding tumbleweeds and broomweed. On August 24 and 25, 2006 all free oil was absorbed using Peat-Sorb and the remaining affected soils and vegetation were treated with Micro-bac M-1000, a blend of naturally occurring microbes, which assist in the degradation of hydrocarbons.

The majority of the unrecovered oil affected mostly vegetation. The affected soils were very shallow and spotty, making soil sampling difficult and futile. As a result, photographs of the vegetation in the affected area are included in Appendix C to document the effectiveness of the remediation. One soil sample was collected from the south containment at one foot below ground surface; the sample was collected from the area that was most difficult to remediate.

# 2.2 Soil Sampling

The soil sampling program included the collection of one soil sample from the south containment. The soil sample was analyzed for TPH using EPA Method 8015M and BTEX using EPA Method 8021B. The soil sample was placed in laboratory prepared glassware, sealed with

# Merit Energy Company Russell Turner Water Station Site March 26, 2007

# **Jim Hollon Consulting**

the identification label and placed on ice in a chest. The sample and completed chain-of-custody forms were relinquished to Environmental Lab of Texas in Odessa, Texas for analysis. The executed chain-of-custody forms and laboratory data sheets are provided in Appendix B.

## 3.0 DATA EVALUATION

The sample collected from the affected soils indicated TPH and BTEX concentrations below NMOCD remediation levels, at <10 mg/kg and 0.147 mg/kg, respectively. The laboratory results are presented in Appendix B, Table 1.

## 4.0 FINDINGS AND RECOMMENDATIONS

Jim Hollon Consulting submits this closure compliance report to Merit which documents the site closure activities. Based on results of the field activities and laboratory analysis, it is recommended Merit submit this report to the NMOCD as documentation that remediation was completed to NMOCD standards and recommends that Merit request a "no further action" letter for this site.

# **DISTRIBUTION**

Copy 1: Mike Bratcher

New Mexico Energy, Minerals and Natural Resources Department

Oil Conservation Division, District 2

1301 W. Grand Artesia, NM 88210

Copy 2: Jim Amos

**Bureau of Land Management** 

620 E. Greene

Carlsbad, NM 88220

Copy 3: Dwain Wall

Merit Energy Company

P.O. Box 69

Loco Hills, NM 88255

Copy 4: David Hertel

Merit Energy Company

P.O. Box 300

Whiteface, TX 79379

Copy 5: Justin Findley

Merit Energy Company 13727 Noel Rd. Ste 500

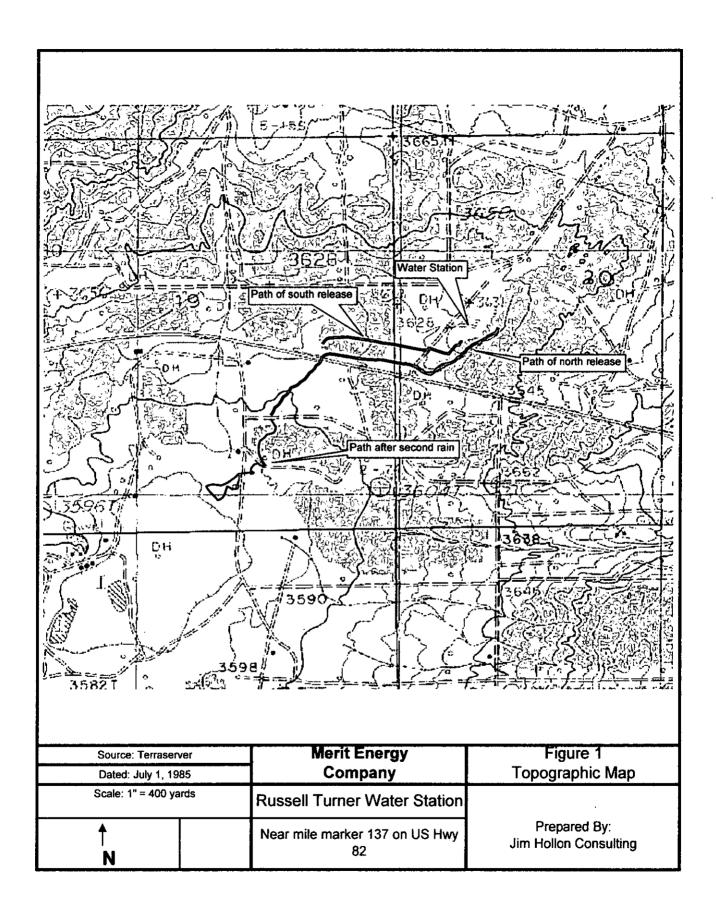
Dallas, TX 75240

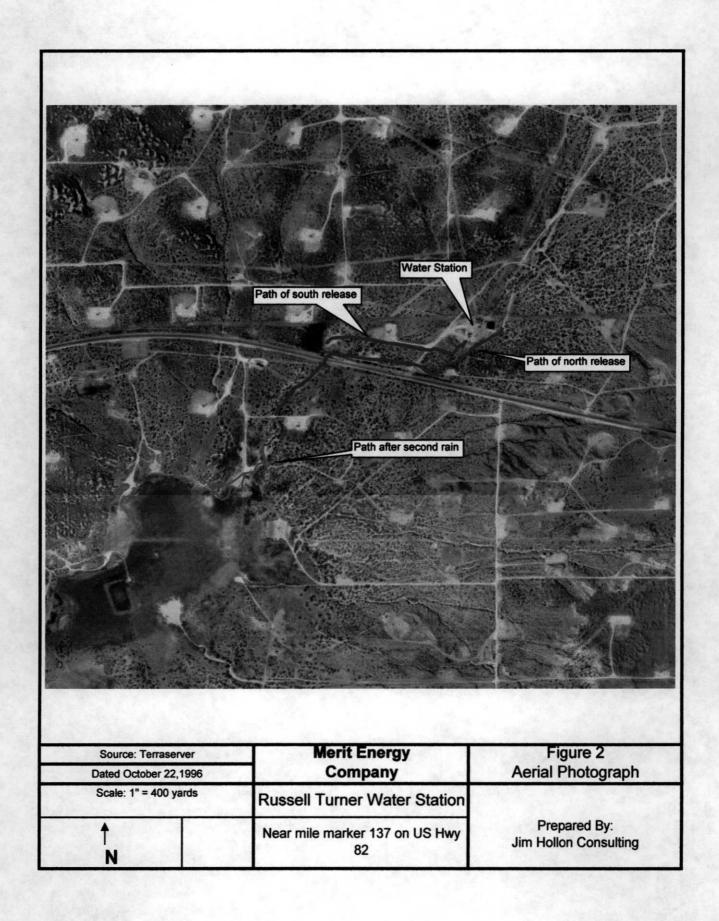
Copy 6: Jim Hollon

Jim Hollon Consulting 14034 W. Co. Rd. 123 Odessa, TX 79765

# **APPENDIX A**

Figure 1 – Topographic Map Figure 2 – Aerial Photograph





# **APPENDIX B**

# Analytical Summary Tables Laboratory Data Sheets Laboratory Chain of Custody Documents

# Table 1 CONCENTRATIONS OF CHEMICALS OF CONCERN IN SOIL

# Merit Energy Russell Turner Water Station Loco Hills, Eddy County, New Mexico

All concentrations are in mg/kg

		SAMDLE			EPA Met	rod 8015M	······································		EPA Meth	od 8021B	
SAMPLE DATE	SAMPLE LOCATION	SAMPLE DEPTH	TPH C <sub>6</sub> -C <sub>12</sub>	TPH C <sub>12</sub> -C <sub>28</sub>	TPH C <sub>12</sub> -C <sub>35</sub>	ТРН С <sub>6</sub> -С <sub>35</sub>	BENZENE	TOLUENE	ETHYL- BENZENE	TOTAL XYLENES	
01/29/07	South Con.	0-12"	<10	<10	<10	<10	<0.025	0.019	0.025	0.103	

CONCENTRATIONS IN BOLD ARE ABOVE REGULATORY GUIDELINES



# **Analytical Report**

# Prepared for:

Jim Hollon (for)
Merit Energy Company
P.O. Box 300
Whiteface, TX 79379

Project: Various

Project Number: None Given

Location: New Mexico

Lab Order Number: 7B02005

Report Date: 03/27/07

P.O. Box 300

Whiteface TX, 79379

Project: Various

Project Number: None Given

Project Manager: Jim Hollon (for)

Fax: (806) 229-2583

# ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
RT Sta South Containment	7B02005-05	Soil	01/29/07 12:00	02-02-2007 11:40

P.O. Box 300

Whiteface TX, 79379

Project: Various

Project Number: None Given
Project Manager: Jim Hollon (for)

Fax: (806) 229-2583

# Organics by GC Environmental Lab of Texas

<b>.</b>	Result	Reporting Limit	Units						
Analyte	Kesuit	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
RT Sta South Containment (7B02005-	05) Seil								
Benzene	ND	0.0250	mg/kg dry	25	EB70201	02/02/07	02/02/07	EPA 8021B	
Toluene	J [0.6189]	0.0250	*	*		•	<b>"</b>	•	
Ethylbenzene	J [0.0249]	0.0250	•	*	•	•	•	•	
Xylene (p/m)	0.0597	0.0250	<b>"</b>		*	•	-	•	
Xylene (o)	0.0435	0.0250	•	*	×		**	*	
Surrogate: a,a,a-Trifluorotoluene		105 %	80-1	20	"	"	, m	,	
Surrogate: 4-Bromofluorobenzene		118%	80-1	20	"	•	,	"	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EB70213	02/02/07	02/06/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	*		•	*	•	н	
Carbon Ranges C28-C35	ND	10,0	*	•	•	•	•	•	
Total Hydrocarbons	ND	10.0	*	7	•	•	<b>"</b>	*	
Surrogate: 1-Chlorooctane		92.6 %	70-1	30	,	*	*	,	
Surrogate: I-Chlorooctadecane		95.2 %	70-1	30	,,	<b>"</b>	"	7	

Environmental Lab of Texas

A Xenco Laboratories Company

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 2 of 8

12600 West I-20 East - Odessa, Texas 79705 - (432) 563-1800 - Fax (432) 563-1713

P.O. Box 300

Whiteface TX, 79379

Project: Various

Project Number: None Given

Project Manager: Jim Hollon (for)

# Organics by GC - Quality Control Environmental Lab of Texas

A	<b>₽</b> •.	Reporting	F1=2x	Spike	Source	<b>9/DEC</b>	%REC	p br	RPD Limit	Marker -
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EB70201 - EPA 5030C (GC)	·		<del> </del>			<del></del>		·		
Blank (EB70201-BLK1)				Prepared &	Analyzed:	02/01/07				
Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.0250	•							
Ethylbenzene	ND	0.0250	•							
Xylene (p/m)	ND	0.0250	•							
Xylene (o)	ND	0.0250								
Surrogate: a.a,a-Trifluorotoluene	34.0		ug/kg	40.0		85.0	80-120			
Surrogate: 4-Bromofluorobenzene	33.9		#	40.0		84.8	80-120			
LCS (EB70201-BS1)				Prepared &	Analyzed:	02/01/07				
Benzene	1,18	0.0250	mg/kg wet	1.25		94.4	80-120			
Toluene	1.24	0.0250	-	1.25		99.2	80-120			
Ethylbenzene	1.28	0.0250		1.25		102	80-120			
Xylene (p/m)	2.43	0.0250	₩.	2.50		97.2	80-120			
Xylene (o)	1.11	0.0250	н	1.25		88,8	80-120			
Surrogate: a,a,a-Trifluorotoluene	38.4		ug/kg	40.0		96.0	80-120			
Surrogate: 4-Bromofluorobenzene	43.2		**	40.0		108	80-120			
Calibration Check (EB70201-CCV1)				Prepared: 0	12/02/07 A	nalyzed: 02/	/05/07			
Benzene	47.6		ug/kg	50.0		95.2	80-120			
Toluene	48.4		•	50,0		96.8	80-120			
Ethylbenzene	54.7		•	50.0		109	80-120			
Xylene (p/m)	93.0		•	100		93,0	80-120			
Xylene (o)	43.9		٠	50.0		87.8	80-120			
Surrogate: a,a,a-Trifluorotoluene	42.2		"	40.0		106	80-120			
Surrogate: 4-Bromofluorobenzene	33.8		-	40.0		84.5	80-120			
Matrix Spike (EB70201-MS1)	Sou	rce: 7A31001	-02	Prepared: 0	1 <u>2/02/</u> 07 A	nalyzed: 02/	/05/07			
Benzene	1,09	0.0250	mg/kg dry	1.36	ND	80.1	80-120			
Toluene	1.09	0.0250	•	1.36	ND	80.1	80-120			
Ethylbenzene	1.14	0.0250	-	1.36	ND	83.8	80-120			
Xylene (p/m)	2,35	0.0250		2.71	ND	86.7	80-120			
Xylene (o)	1.11	0.0250		1,36	ND	81,6	80-120			
Surrogate: a,a,a-Trifluorotoluene	35.3	<del> </del>	ug/kg	40.0		88.2	80-12 <b>0</b>			

Surrogate: 4-Bromofluorobenzene

81.2

80-120

Fax: (806) 229-2583

40.0

*32.5* 

P.O. Box 300 Whiteface TX, 79379 Project: Various

Project Number: None Given

Project Manager: Jim Hollon (for)

# Organics by GC - Quality Control

# **Environmental Lab of Texas**

		Reporting		Spike	Source		%REC	===	RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EB70201 - EPA 5030C (GC)									<u></u>	
Matrix Spike Dup (EB70201-MSD1)	Sou	rce: 7A31001	1-02	Prepared: (	02/02/07 A	nalyzed: 02	2/05/07			
Benzene	1.09	0,0250	mg/kg dry	1.36	ND	80.1	80-120	0.00	20	
Toluene	1.13	0.0250	•	1.36	ND	83.1	80-120	3,68	20	
Ethylbenzene	1,15	0,0250	•	1.36	ND	84.6	80-120	0.950	20	
Xylene (p/m)	2.28	0.0250	N	2.71	ND	84.1	80-120	3.04	20	
Xylene (o)	1,11	0,0250	•	1.36	ND	81,6	80-120	0.00	20	
Surrogate: a,a,a-Trifluorotoluene	32.9		ug/kg	40.0		82.2	80-120			
Surrogate: 4-Bromofluorobenzene	32.7		•	40.0		81.8	80-120			
Batch EB70213 - Solvent Extraction (GC)										
Blank (EB70213-BLK1)				Prepared: (	02/02/07 A	nalyzed: 02	2/06/07			
Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10,0	*							
Carbon Ranges C28-C35	ND	10.0								
Total Hydrocarbons	ND	10.0	*					*		
Surrogate: 1-Chlorooctane	51.1		mg/kg	50.0		102	70-130			
Surrogate: 1-Chlorooctadecane	51.9		*	50.0		104	70-130			
LCS (EB70213-BS1)				Prepared: (	02/02/07 A	nalyzed: 02	2/06/07			
Carbon Ranges C6-C12	536	10.0	mg/kg wet	500		107	75-125			
Carbon Ranges C12-C28	489	10.0		500		97.8	75-125			
Carbon Ranges C28-C35	ND	10.0		00,0			75-125			
Total Hydrocarbons	1030	10.0	•	1000		103	75-125			
Surrogate: 1-Chlorooctane	57.2		mg/kg	50.0		114	70-130		,	
Surrogate: 1-Chlorooctadecane	55.3		•	50.0		111	70-130			
Calibration Check (EB70213-CCV1)				Prepared: (	02/02/07 A	nalyzed: 02	/06/07			
Carbon Ranges C6-C12	205		mg/kg	250		82.0	80-120			
Carbon Ranges C12-C28	249		-	250		99.6	80-120			
Total Hydrocarbons	454		-	500		90,8	80-120			
Surrogate: 1-Chlorooctane	63.6		*	50.0		127	70-130	•		

57.I

Surrogate: 1-Chlorooctadecane

114

70-130

Fax: (806) 229-2583

50.0

P.O. Box 300

Whiteface TX, 79379

Project: Various

Project Number: None Given

Project Manager: Jim Hollon (for)

# Organics by GC - Quality Control

# **Environmental Lab of Texas**

	Reporting			Spike	Source		%REC			
Analyte	Result	Limit	Units	Level	Result	%REC_	Limits	RPD	Limit	Notes
Batch EB70213 - Solvent Extraction (GC)										
Matrix Spike (EB70213-MS1)	Sourc	e: 7B01015	i <b>-</b> 01	Prepared: (	02/02/07 A	nalyzed: 02	/06/07			
Carbon Ranges C6-C12	562	10,0	mg/kg dry	539	11.0	102	75-125			
Carbon Ranges C12-C28	531	10,0	*	539	64.7	86,5	75-125			
Carbon Ranges C28-C35	ND	10.0	*	0.00	3.76		75-125			
Total Hydrocarbons	1090	10,0	•	1080	68.2	94.6	75-125			
Surrogate: 1-Chlorooctane	60.0		mg/kg	50.0		120	70-130			
Surrogate: 1-Chlorooctadecane	50.7		~	50.0		101	70-130			
Matrix Spike Dup (EB70213-MSDI)	Source	e: 7B01015	<b>–</b> 01	Prepared: 0	)2/02/07 A	nalyzed: 02	/06/07			
Carbon Ranges C6-C12	575	10.0	mg/kg dry	539	11.0	105	75-125	2.90	20	
Carbon Ranges C12-C28	519	10.0	н	539	64.7	84,3	75-125	2.58	20	
Carbon Ranges C28-C35	ND	10.0		0.00	3.76		75-125		20	
Total Hydrocarbons	1090	10.0		1080	68,2	94.6	75-125	0.00	20	
Surrogate: 1-Chlorooctane	49.1		mg/kg	50.0		98.2	70-130	····		
Surrogate: 1-Chlorooctadecane	49.8		"	50.0		99.6	70-130			

Fax: (806) 229-2583

P.O. Box 300

Whiteface TX, 79379

Project: Various

Fax: (806) 229-2583

Project Number: None Given Project Manager: Jim Hollon (for)

# General Chemistry Parameters by EPA / Standard Methods - Quality Control

# **Environmental Lab of Texas**

	Reporting		Spike	Source		%REC		RPD	
Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
)	····		··· · · · · ·						
			Prepared: 0	2/02/07 A	nalyzed: 02	/03/07			
100		%							
Sou	rce: 7B02007-	D1	Prepared: 0	2/02/07 A	nalyzed: 02	/03/07			
95.9		%		96.0			0.104	20	
	100	Result Limit  100  Source: 7B02007-	Result Limit Units  100 %  Source: 7B02007-01	Result   Limit   Units   Level	Prepared: 02/02/07 A   100   Source: 7B02007-01   Prepared: 02/02/07 A	Result         Limit         Units         Level         Result         %REC           100         Prepared: 02/02/07 Analyzed: 02           Source: 7B02007-01         Prepared: 02/02/07 Analyzed: 02	Result         Limit         Units         Level         Result         %REC         Limits           Prepared: 02/02/07 Analyzed: 02/03/07           100         %           Source: 7B02007-01         Prepared: 02/02/07 Analyzed: 02/03/07	Result         Limit         Units         Level         Result         %REC         Limits         RPD           Prepared: 02/02/07 Analyzed: 02/03/07           100         %           Source: 7B02007-01         Prepared: 02/02/07 Analyzed: 02/03/07	Result         Limit         Units         Level         Result         %REC         Limits         RPD         Limit           Prepared: 02/02/07 Analyzed: 02/03/07           100         %           Source: 7B02007-01         Prepared: 02/02/07 Analyzed: 02/03/07

Merit Energy Company Project: Various Fax: (806) 229-2583

P.O. Box 300 Project Number: None Given
Whiteface TX, 79379 Project Manager: Jim Hollon (for)

#### **Notes and Definitions**

Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By:

Bund Buron

Date:

3/27/2007

Brent Barron, Laboratory Director/Corp. Technical Director Celey D. Keene, Org. Tech Director Raland K. Tuttle, Laboratory Consultant James Mathis, QA/QC Officer
Jeanne Mc Murrey, Inorg. Tech Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas

A Xenco Laboratories Company

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 8 of 8

# **Environmental Lab of Texas**

12600 West I-20 East Odossa, Toxas 79765

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST Phono: 432-563-1800 Fax: 432-553-1713

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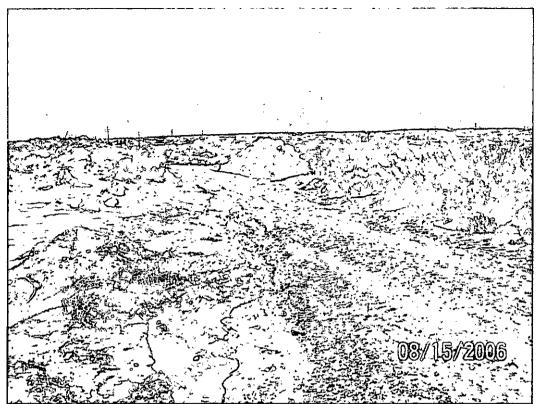
# **Environmental Lab of Texas**

Variance/ Corrective Action Report- Sample Log-In

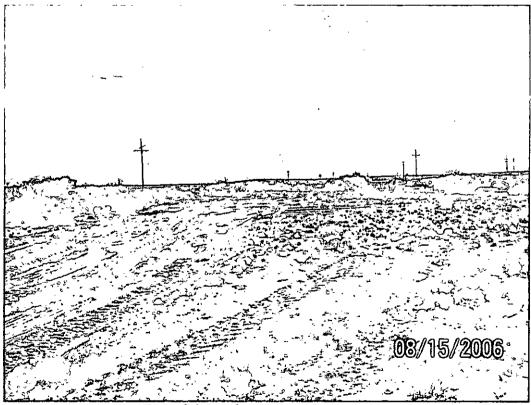
Client: Men't Faretay				
Date/ Time: 2/2/01 1/40				
Lab ID #: 1802005				
<u> </u>				
Initials:				
Sample Recei	pt Checklist			lient Initials
#1 Temperature of container/ cooler?	Yes	No.	20 °C	nent micais
#2 Shipping container in good condition?	₩E\$	No		
#3 Custody Seals intact on shipping container/ cooler?	Yes	No	(Not Present	
#4 Custody Seals intact on sample bottles/ container?	Yes	No	Not Present	
#5 Chain of Custody present?	Hes	No		
#6 Sample instructions complete of Chain of Custody?	¥es	No		
#7 Chain of Custody signed when relinquished/ received?	SXE3	No		
#8 Chain of Custody agrees with sample label(s)?	Y'es,	No	ID written on Cont./ Lid	
#9 Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10 Sample matrix/ properties agree with Chain of Custody?	E\$	No		
#11 Containers supplied by ELOT?	(Yes	No		
#12 Samples in proper container/ bottle?	Æes	No	See Below	
#13 Samples properly preserved?	A es	No	See Below	
#14 Sample bottles intact?	Yes	No		
#15 Preservations documented on Chain of Custody?	Ves	No		
#16 Containers documented on Chain of Custody?	Yes>	No		
#17 Sufficient sample amount for indicated test(s)?	¥es≥	No	See Below	
#18 All samples received within sufficient hold time?	(Ves	No	See Below	
#19 Subcontract of sample(s)?	Yes	No	Not Applicable	
#20 VOC samples have zero headspace?	Yes	No_	Not Applicable	
Contact: Contacted by:  Regarding:	cumentation		Date/ Time:	
regarding.			· · · · · · · · · · · · · · · · · · ·	
			<del></del> -	
Corrective Action Taken:				
	·			<del></del>
Check all that Apply:  See attached e-mail/ fax Client understands and we Cooling process had begin	·		•	

# **APPENDIX C**

# Photographs

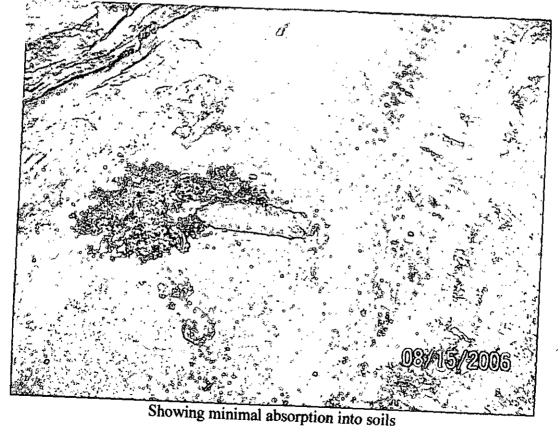


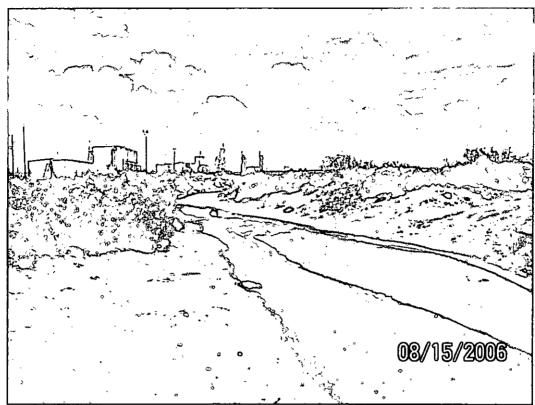
Pipeline Right of Way and stockpiled soils



End of right of way area after scraping



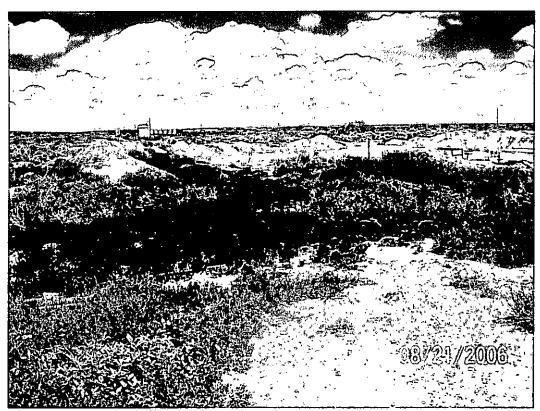




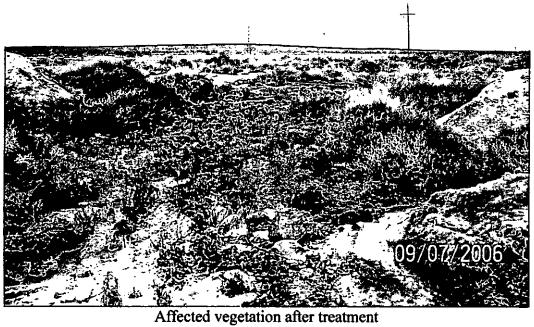
Typical view of the affected arroyo

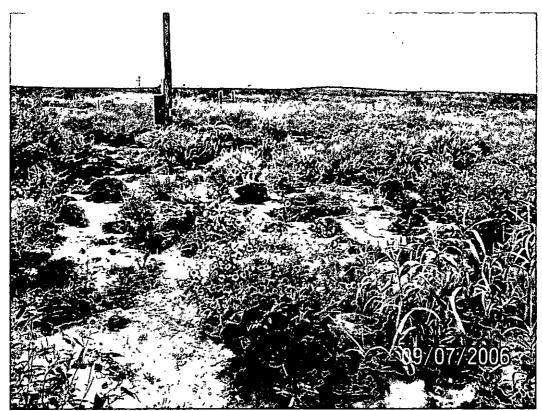


Wash and squeegee of arroyo

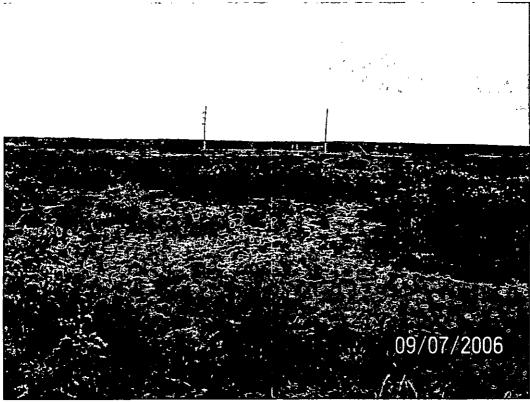


Affected vegetation after second rain event





Affected vegetation after treatment



End of affected area after treatment

# **APPENDIX D**

# Regulatory Reports

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

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

Form C-141

Revised October 10, 2003

1220 South St. Francis Dr. Santa Fe, NM 87505

OPERATOR	Release Notification and Corrective Action							
Facility Name: Russell Turner Water Station								
Facility Name: Russell Turner Water Station								
Surface Owner: BLM								
LOCATION OF RELEASE  Unit Letter   Section   Township   Range   Feet from the   North/South Line   Feet from the   East/West Line   County    Latitude   32.82015   Longitude   193.8970    NATURE OF RELEASE  Type of Release: Crude oil   Volume of Release: 350 bbl   Volume Recovered: 280 bbl    Source of Release: tanks overfilled   Date and Hour of Occurrence:   Date and Hour of Discovery:    Was Immediate Notice Given?   My town   My		racinty Type: water-mood station						
Unit Letter   Section   Township   31-E   Feet from the   North/South Line   Feet from the   East/West Line   Country	Surface Owner: BLM Mineral Owner:	: BLM Lease No.:						
Latitude 32.82015  Longitude 103.89701  NATURE OF RELEASE  Type of Release: Crude oil  Source of Release: tanks overfilled  Date and Hour of Occurrence:  08/15/06 1:30 am  Was Immediate Notice Given?  Was Immediate Notice Given?  Was Immediate Notice Given?  Was Immediate Notice Given?  Was Immediate Notice Given?  Was Immediate Notice Given?  Was a Watercourse Reached?  Yes \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \								
Type of Release: Crude oil	+   +	h/South Line Feet from t	he East/W	est Line	_			
Volume of Release: 130 bbl   Volume Recovered: 280 bbl   Source of Release: 130 bbl   Source of Release: 130 bbl   Source of Release: 130 bbl   Date and Hour of Occurrence: Date and Hour of Discovery: 08/15/06 1:00 am   08/15/06 5:30 am   Part of Date and Hour of Discovery: 08/15/06 1:00 am   08/15/06 5:30 am   Part Occurrence: Part of Date and Hour of Discovery: 08/15/06 1:00 am   08/15/06 5:30 am   Part Occurrence: Part Occ	Latitude 32.82015 Longitude 103.89701							
Source of Release: tanks overfilled    Date and Hour of Occurrence:   Date and Hour of Discovery:								
Was Immediate Notice Given?    Yes								
Was Immediate Notice Given?    Yes   No Not Required   Metwork Paul Evans (BLM) & Mike Bratcher (OCD)	Source of Release: tanks overfilled					covery:		
By Whom? Mike Self Date and Hour. 6:00 am  Was a Watercourse Reached? If YES, Volume Impacting the Watercourse.  If a Watercourse was Impacted, Describe Fully.*  The overflow and sump tanks both overfilled. The secondary containment for each filled and overflowed allowing approximately 70 barrels to reach two arroys. The occurrence followed a heavy rain event which had saturated the ground, causing the oil flow on top of the water and not penetrate very deep into the ground.  Describe Cause of Problem and Remedial Action Taken.*  An electrical failure caused injection pumps to shut down, the telephone line serving the alarm system was also down resulting in no alarm being sent to personnel. Electrical service was restored and pumps restarted, the telephone company made repairs to their line and restored service.  Describe Area Affected and Cleanup Action Taken.*  The majority of the spill was contained in the firewalls surrounding the tanks. The oil did breach the firewalls, reaching two arroyos labeled "A" and "B". Arroyo "A" started near the southern most tank, the oil crossed the dirt road and ended on flat ground approximately 300 yards from the point of origin. Please see attached sheet for cleanup action.  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 NMOCD marked as "Final Form" 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. The acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local types and/or regulations.  OIL CONSERVATION DIVISION  Sig	Was Immediate Notice Given?			08/13/00	3:30 am			
If YES, Volume Impacting the Watercourse.    To bbls			1ike Bratcher	(OCD)				
If a Watercourse was Impacted, Describe Fully.* The overflow and sump tanks both overfilled. The secondary containment for each filled and overflowed allowing approximately 70 barrels to reach two arroyos. The occurrence followed a heavy rain event which had saturated the ground, causing the oil flow on top of the water and not penetrate very deep into the ground.  Describe Cause of Problem and Remedial Action Taken.* An electrical failure caused injection pumps to shut down, the telephone line serving the alarm system was also down resulting in no alarm being sent to personnel. Electrical service was restored and pumps restarted, the telephone company made repairs to their line and restored service.  Describe Area Affected and Cleanup Action Taken.* The majority of the spill was contained in the firewalls surrounding the tanks. The oil did breach the firewalls, reaching two arroyos labeled "A" and "B". Arroyo "A" started near the southern most tank, the oil crossed the dirt road and ended on flat ground approximately 300 yards from the point of origin. Arroyo "B" was affected by the northern most tank, the oil entered the arroyo following it under the dirt road and highway stopping approximately 300 yards from the point of origin. Please see attached sheet for cleanup action.  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 NMOCD 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 othe								
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E-mail Address: jim.hollon@sbcglobal.net  Conditions of Approval:  Attached	Printed Name: Jim Hollon							
Attaclied LJ	Title: Consultant	Approval Date:	E	xpiration [	Pate:			
Attaclied LJ	E-mail Address: jim.hollon@sbcglobal.net	Conditions of Approval:			Attached []			
1 Date: 03/76/07 Phone: 432-631-5768					Auduleu L.J			
* Attach Additional Sheets If Necessary								

## Continuation of area affected and cleanup action taken.

Power was restored and the pumps were restarted. A backhoe was utilized to build dams in the arroyo to prevent the flow of oil should it begin to rain again and to aid in the recovery of the oil. The backhoe was used to scrape/squeegee the flat areas and stockpile the affected soils. Vacuum trucks were utilized to recover all free liquids. Fresh water was pumped by trucks down the arroyo to flush the oil to points where vacuum trucks could recover both the oil and water. The backhoe began to blend the affected soils in arroyo "A" up to the dirt road crossing and build berms around the end of the affected areas to prevent additional migration of the oil. A total of 280 barrels of oil was recovered from the secondary containments and arroyos. The stockpiled soils were taken to CRI in Hobbs New Mexico.

During the evening and night another heavy rain event occurred. This rain event flooded the arroyos and floated the remaining unrecovered oil out of the soils. The oil was floated approximately 300 yards to a flat area where it affected the bottom six inches of the tumbleweeds and broomweed. On August 24 and 25, 2006, the affected vegetation was treated with Micro-bac M-1000, a naturally occurring microbe that assists in the degradation of hydrocarbons. A spray rig with a hand wand was utilized to wash and treat the vegetation as well as all affected soils in the spill area.

Additional treatments will be conducted as necessary to remediate the affected areas. The average depth of the affected soils is ¼ of an inch and is very spotty throughout the affected areas.

Remediation activities are complete and analytical results are included with the attached report.

# Bratcher, Mike, EMNRD

From:

Paul Evans@nm.blm.gov

Sent:

Monday, August 21, 2006 9:06 AM

To:

Bratcher Mike EMNRD

Subject:

Merit Turner

Attachments:

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[attachment "Untitled10.jpg" deleted by Paul Evans/CFO/NM/BLM/DOI] (See attached file: Untitled20.jpg) (See attached file: Untitled1.jpg) (See attached file: Untitled2.jpg) (See attached file: Untitled3.jpg) (See attached file: Untitled4.jpg) (See attached file: Untitled5.jpg) (See attached file: Untitled6.jpg) (See attached file: Untitled7.jpg) (See attached file: Untitled8.jpg) (See attached file: Untitled9.jpg) (See attached file: Untitled10.jpg) (See attached file: Untitled11.jpg) (See attached file: Untitled12.jpg) (See attached file: Untitled13.jpg) (See attached file: Untitled14.jpg) (See attached file: Untitled15.jpg) (See attached file: Untitled16.jpg) (See attached file: Untitled17.jpg) (See attached file: Untitled18.jpg) (See attached file: Untitled19.jpg)

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