

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

Form C-144  
June 1, 2004

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

For drilling and production facilities, submit to appropriate NMOCD District Office.  
For downstream facilities, submit to Santa Fe office

**Pit or Below-Grade Tank Registration or Closure**

Is pit or below-grade tank covered by a "general plan"? Yes ☒ No ☐

Type of action: Registration of a pit or below-grade tank ☒ Closure of a pit or below-grade tank ☐

Operator: Merrion Oil & Gas Telephone: (505)324-5326 e-mail address: cdinning@merrion.bz  
Address: 610 Reilly Ave., Farmington, NM 87401  
Facility or well name: Wagon Train No. 1 API #: 30-045-25912 U/L or Qtr/Qtr ne/se, I Sec 6 T 25N R 8W  
County: San Juan Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ NAD: 1927 ☐ 1983 ☐ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

**Pit**

Type: Drilling ☐ Production ☒ Disposal ☐

Workover ☐ Emergency ☐

Lined ☐ Unlined ☒

Liner type: Synthetic ☐ Thickness \_\_\_\_\_ mil Clay ☐

Pit Volume 419 bbl 14' X 14' X 12'

**Below-grade tank**

Volume: \_\_\_\_\_ bbl Type of fluid: \_\_\_\_\_

Construction material: \_\_\_\_\_

Double-walled, with leak detection? Yes ☐ If not, explain why not. \_\_\_\_\_

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)

Less than 50 feet	(20 points)	
50 feet or more, but less than 100 feet	(10 points)	
100 feet or more	( 0 points)	0

Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)

Yes	(20 points)	
No	( 0 points)	0

Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)

Less than 200 feet	(20 points)	
200 feet or more, but less than 1000 feet	(10 points)	
1000 feet or more	( 0 points)	10

<b>Ranking Score (Total Points)</b>		10
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**If this is a pit closure:** (1) attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☐ offsite ☐ If offsite, name of facility \_\_\_\_\_. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☒ Yes ☐ If yes, show depth below ground surface \_\_\_\_\_ ft. and attach sample results. (5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments: Pit location is approximately 20° south of east, 70' from the wellhead.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

Date: December 14, 2004

Printed Name/Title Connie Dinning/ Production Engineer Signature [Signature]

Your certification and NMOCD approval of this application/closure does not relieve the operator or liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval: **DEPUTY OIL & GAS INSPECTOR, DIST. #7**

Printed Name/Title \_\_\_\_\_ Signature [Signature] Date: DEC 21 2004

# **M E R R I O N**

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OIL & GAS

**Date:** 8/10/04

**Lease Name:** Wagon Train # 1

## **Case Narrative:**

In July 1996 the production pit on the Wagon Train # 1 was excavated and treated in place with fertilizer and PVC vent pipes. On July 21, 2004 the pit was partially excavated. The soil in the excavation was dark in color and had a hydrocarbon odor. We determined that the treatment in place was not successful.

Excavation continued until clean dirt was exposed. Soil samples were taken from the exposed area and tested with an organic vapor meter (OVM). The OVM had a reading of 0 PPM. Composite soil samples were then taken from the sides and bottom as indicated in the attached diagram. The samples were placed on ice and taken to the lab the same day. The attached Laboratory analyse indicated that the soil samples had no hydrocarbon contamination. Both gasoline and diesel range organics were below the detection limits of the laboratory equipment. The hydrocarbon contaminated soil from the pit excavation was land farmed on site.

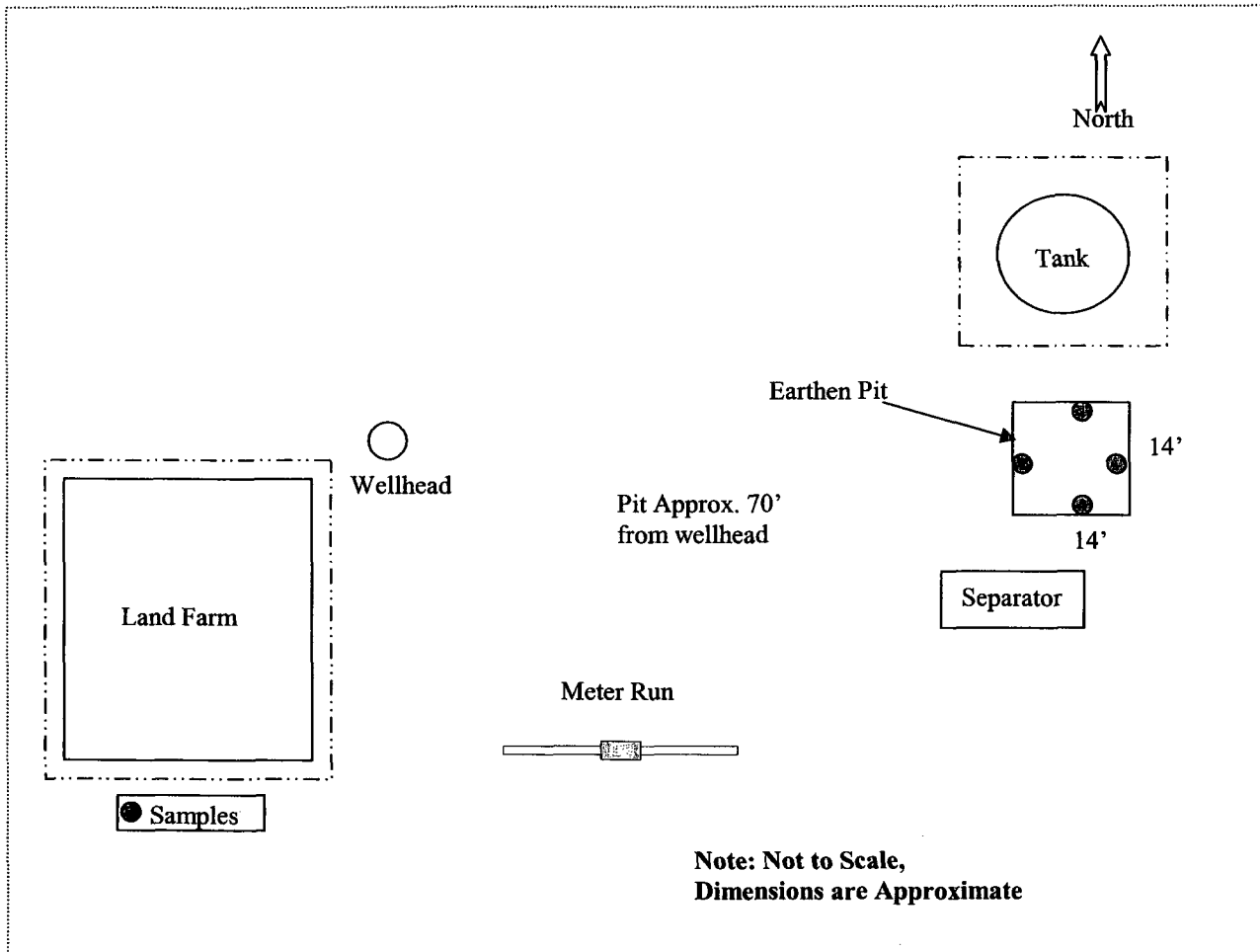
# MERRION

OIL & GAS

**Date:** 8/6/04

**Lease Name:** Wagon Train # 1

## Sample Locator Diagram



# MERRION

OIL & GAS

**Date:** 8/10/04

**Lease Name:** Wagon Train # 1

Organic Vapor Meter (OVM)
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Date	Sample	Reading
		PPM
7/20/04	Side Composite	0
7/20/04	Bottom Composite	0

612 E. Murray Drive  
Farmington, NM 87499

Off: (505) 327-1072  
FAX: (505) 327-1496

*iiná bá*

P.O. Box 3788  
Shiprock, NM 87420

Off: (505) 368-4065

## ANALYTICAL REPORT

Date: 04-Aug-04

**CLIENT:** Merrion Oil and Gas Corporation  
**Work Order:** 0407053  
**Project:**  
**Lab ID:** 0407053-001A

**Client Sample Info:**  
**Client Sample ID:** Wagon Train Pit Sides  
**Collection Date:** 7/20/2004 4:30:00 PM  
**Matrix:** SOIL

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015B</b>		Analyst: JEM		
T/R Hydrocarbons: C10-C28	ND	25.0		mg/Kg	1	7/24/2004
Surr: o-Terphenyl	65.2	57-136		%REC	1	7/24/2004
<b>GASOLINE RANGE ORGANICS</b>		<b>SW8015B</b>		Analyst: JEM		
T/R Hydrocarbons: C6-C10	ND	4.50		mg/Kg	25	7/22/2004
Surr: Trifluorotoluene	104	84-149		%REC	25	7/22/2004

**Qualifiers:** ND - Not Detected at the Practical Quantitation Limit  
J - Analyte detected below Practical Quantitation Limit  
B - Analyte detected in the associated Method Blank  
H - Parameter exceeded Maximum Allowable Holding Time

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted precision limits  
E - Value above Upper Quantitation Limit - UQL

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MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

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Shiprock, NM 87420

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## ANALYTICAL REPORT

Date: 04-Aug-04

**CLIENT:** Merrion Oil and Gas Corporation  
**Work Order:** 0407053  
**Project:**  
**Lab ID:** 0407053-002A

**Client Sample Info:**  
**Client Sample ID:** Wagon Train Pit Bottom  
**Collection Date:** 7/20/2004 4:50:00 PM  
**Matrix:** SOIL

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015B</b>		Analyst: JEM		
T/R Hydrocarbons: C10-C28	ND	25.0		mg/Kg	1	7/24/2004
Surr: o-Terphenyl	79.5	57-136		%REC	1	7/24/2004
<b>GASOLINE RANGE ORGANICS</b>		<b>SW8015B</b>		Analyst: JEM		
T/R Hydrocarbons: C6-C10	ND	4.50		mg/Kg	25	7/22/2004
Surr: Trifluorotoluene	103	84-149		%REC	25	7/22/2004

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S - Spike Recovery outside accepted recovery limits

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MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

Green Analytical Laboratories, Inc.  
75 Suttle Street  
Durango, CO 81303

Merrion, Oil & Gas  
610 Reilly Ave.  
Farmington, NM 87401  
Attention: Connie Dinning

**GAL I.D.:** 412-005-01

Date Received: 12/01/04

Date Reported: 12/09/04

QC Batches:

**PROJECT NAME:**

**PROJECT NUMBER:**

**SAMPLE I.D.:** Wagon Train  
Land Farm

Sample Date: 12/01/04

Sample Matrix: Soil

## Petroleum Hydrocarbons

### **RESULTS**

PARAMETER	METHOD	REPORT		DIL	UNITS	DATE	ANALYST
		LIMIT	RESULT			ANALYZED	
Benzene	8021	5.0	<5.0	1	µg/kg	12/03/04	LM
Ethylbenzene	8021	5.0	<5.0	1	µg/kg	12/03/04	LM
Toluene	8021	5.0	<5.0	1	µg/kg	12/03/04	LM
Xylene, total	8021	5.0	<5.0	1	µg/kg	12/03/04	LM
TPHGRO	8015	100	<100	1	µg/kg	12/03/04	LM
TPHDRO	8015	10	182	1	mg/kg	12/09/04	LM

FOR: D. Zufelt  
John Green, Laboratory Manager