

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  *CS*

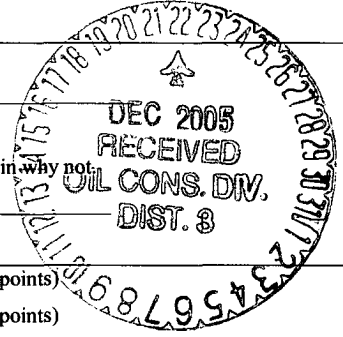
Operator: Merrion Oil & Gas Telephone: (505)324-5326 e-mail address: cdinning@merrion.bz  
Address: 610 Reilly Ave., Farmington, NM 87401  
Facility or well name: Serendip No. 1 API #: 30-045-25679 U/L or Qtr/Qtr 1650' fsl & 2310' fel, nw/se Sec 26 T 26N R 13W  
County: San Juan Latitude \_\_\_\_\_ Longitude \_\_\_\_\_ 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 140 bbl 14' X 14' X 4'

**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)	0
	50 feet or more, but less than 100 feet	(10 points)	
	100 feet or more	( 0 points)	
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)	0
	No	( 0 points)	
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet	(20 points)	10
	200 feet or more, but less than 1000 feet	(10 points)	
	1000 feet or more	( 0 points)	
<b>Ranking Score (Total Points)</b>			<b>10</b>

**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 70' west of 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 .

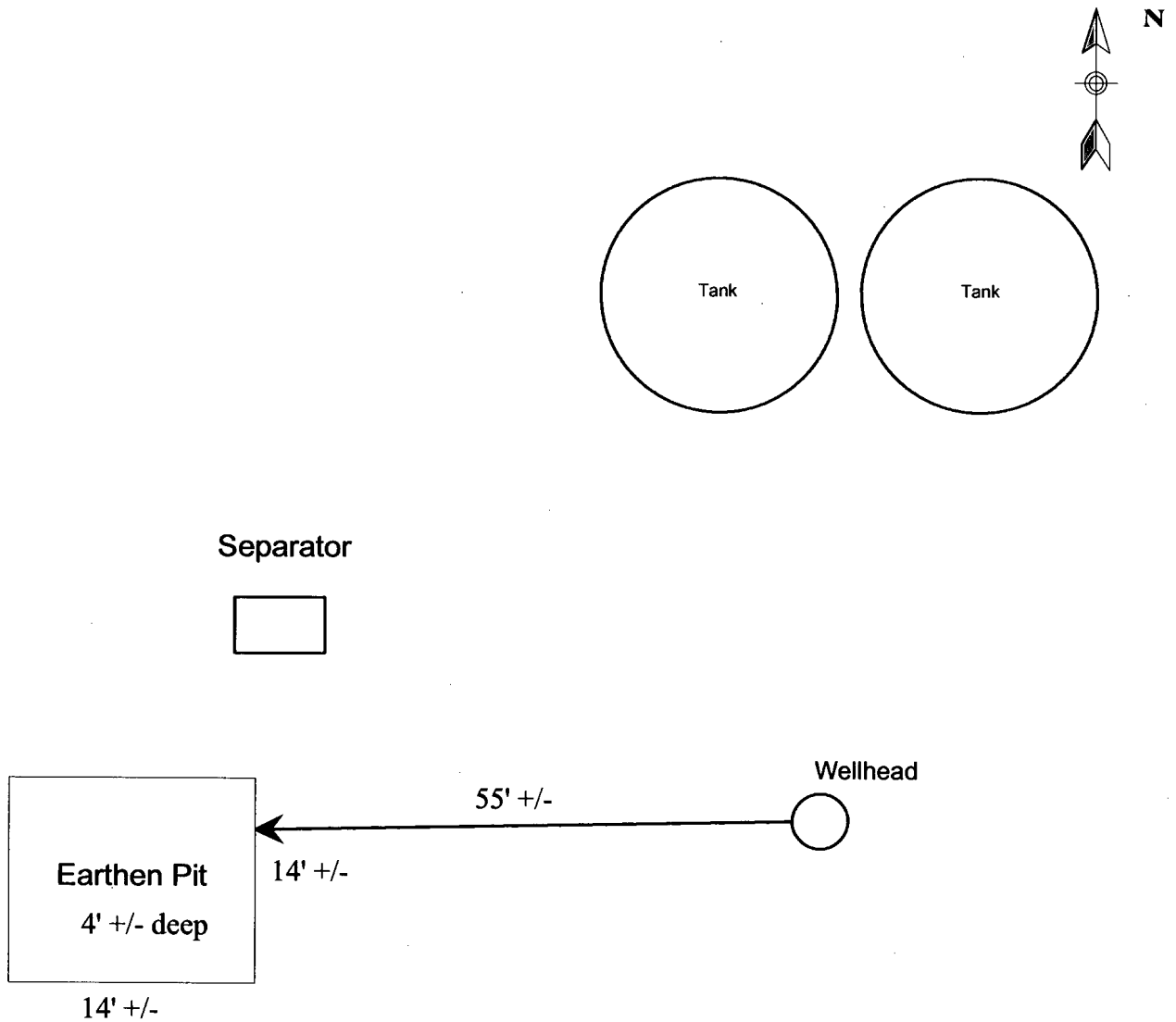
Date: December 20, 2005

Printed Name/Title Connie Dinning/ Production Engineer Signature *CS*

Your certification and NMOCD approval of this application/closure does not relieve the operator of 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. 3** Signature *Wendy Jantz* Date: **DEC 22 2005**

MERRION OIL & GAS  
Pit Location Diagram  
Serendipity No. 1



*This sketch is to provide relative positioning information only, it is not drawn to scale*

Well: Serendipity No. 1  
Location: nw/se, Sec 26, T26N, R13W  
San Juan County, New Mexico  
Drawn by: CSD  
Date: December 20, 2005

Serendipity No. 1  
Pit Closure, Case Narrative  
December 20, 2005

Cleanup began on October 3, 2005. This was an old pit that had only been used for water, and it had not been in use for several years. Composite samples were collected for lab analysis, and they were found to be clean. The pit was pushed in, clean soil was added, and the location was leveled shortly after lab results were received on October 11, 2005

# ENVIROTECH LABS

PRactical SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Merrion Oil	Project #:	03048-009
Sample ID:	Middle Composite	Date Reported:	10-07-05
Laboratory Number:	34560	Date Sampled:	10-03-05
Chain of Custody:	14877	Date Received:	10-04-05
Sample Matrix:	Soil	Date Analyzed:	10-07-05
Preservative:	Cool	Date Extracted:	10-06-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	2.4	1.8
Toluene	82.3	1.7
Ethylbenzene	25.0	1.5
p,m-Xylene	353	2.2
o-Xylene	80.7	1.0
<b>Total BTEX</b>	<b>543</b>	

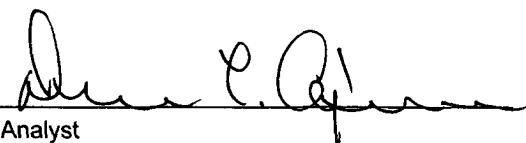
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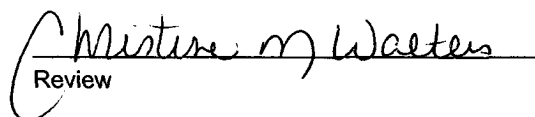
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: Serendipity #1.

  
Analyst

  
Review

# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Merrion Oil	Project #:	03048-009
Sample ID:	Side Composite	Date Reported:	10-07-05
Laboratory Number:	34561	Date Sampled:	10-03-05
Chain of Custody:	14877	Date Received:	10-04-05
Sample Matrix:	Soil	Date Analyzed:	10-07-05
Preservative:	Cool	Date Extracted:	10-06-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
<b>Benzene</b>	<b>6.9</b>	<b>1.8</b>
<b>Toluene</b>	<b>160</b>	<b>1.7</b>
<b>Ethylbenzene</b>	<b>71.1</b>	<b>1.5</b>
<b>p,m-Xylene</b>	<b>825</b>	<b>2.2</b>
<b>o-Xylene</b>	<b>223</b>	<b>1.0</b>
<b>Total BTEX</b>	<b>1,290</b>	

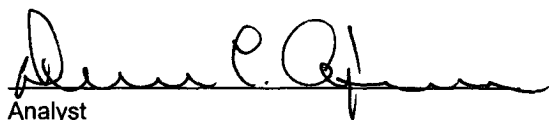
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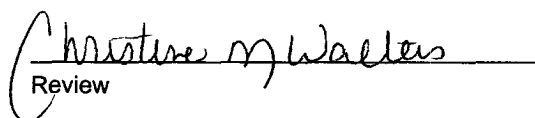
Surrogate Recoveries:	Parameter	Percent Recovery
	<b>Fluorobenzene</b>	<b>98.0 %</b>
	<b>1,4-difluorobenzene</b>	<b>98.0 %</b>
	<b>Bromochlorobenzene</b>	<b>98.0 %</b>

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Serendipity #1.**

  
Analyst

  
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# ENVIROTECH LABS

PRactical SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons


Client:	Merrion Oil	Project #:	03048-009
Sample ID:	Middle Composite	Date Reported:	10-07-05
Laboratory Number:	34560	Date Sampled:	10-03-05
Chain of Custody No:	14877	Date Received:	10-04-05
Sample Matrix:	Soil	Date Extracted:	10-06-05
Preservative:	Cool	Date Analyzed:	10-07-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

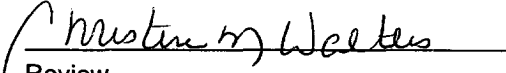
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.8	0.2
Diesel Range (C10 - C28)	23.4	0.1
Total Petroleum Hydrocarbons	24.2	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Serendipity #1.**

  
Analyst

  
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# ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

## EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

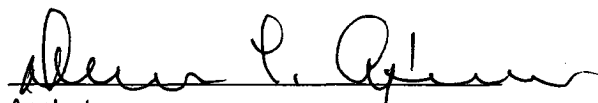
Client:	Merrion Oil	Project #:	03048-009
Sample ID:	Side Composite	Date Reported:	10-07-05
Laboratory Number:	34561	Date Sampled:	10-03-05
Chain of Custody No:	14877	Date Received:	10-04-05
Sample Matrix:	Soil	Date Extracted:	10-06-05
Preservative:	Cool	Date Analyzed:	10-07-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

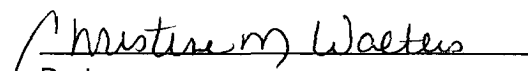
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2.0	0.2
Diesel Range (C10 - C28)	13.2	0.1
Total Petroleum Hydrocarbons	15.2	0.2

ND - Parameter not detected at the stated detection limit.

References: Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Serendipity #1.**

  
Analyst

  
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