

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: Keeling No. 1 API #: 30-045-05299 U/L or Qtr/Qtr B, nw/ne Sec 20 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 200 bbl 15' X 15' 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)

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)

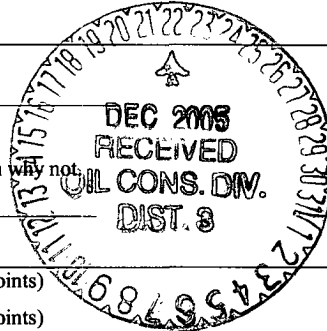
1000 feet or more

(0 points)

20

Ranking Score (Total Points)

20



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 Envirotech Landfarm #2. (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 is approximately 120' south of 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 [Signature]

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:

Printed Name/Title DEPUTY OIL & GAS INSPECTOR, DIST. 8

Signature [Signature]

Date: DEC 22 2005

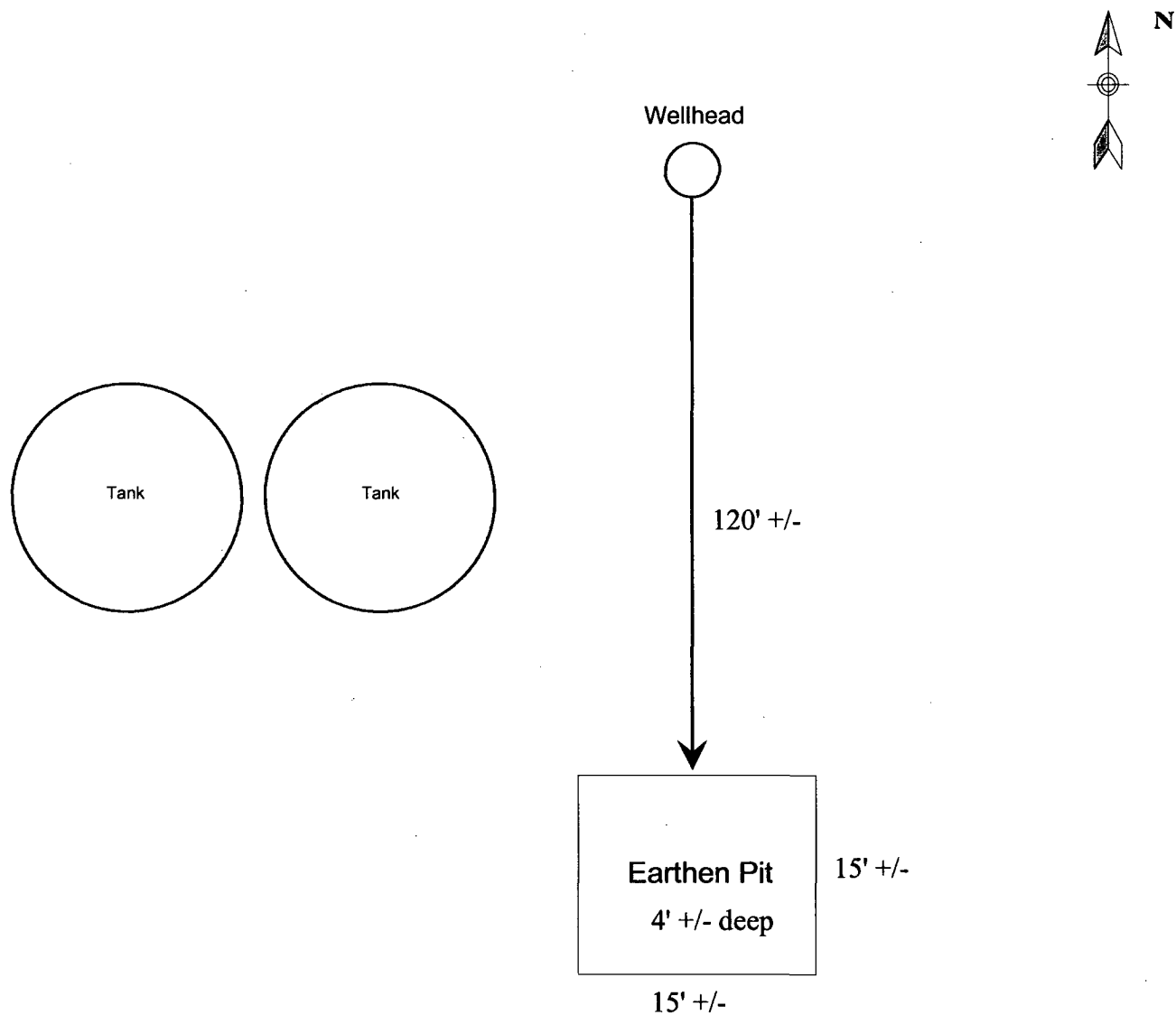
Keeling No. 1
Pit Closure, Case Narrative
December 20, 2005

Cleanup began on May 3, 2005. Discharge to this pit had ceased several years ago. The soil was sandy in this location, so contamination had migrated fairly extensively. All contaminated soil was removed. The sides and bottom of the excavation were tested with an OVM meter until all the contaminated soil was removed. Composite samples were taken from the sides and bottom of the excavation and sent to the lab for analysis. When the lab results were received, the excavation was backfilled with clean soil.

The contaminated soil was hauled to Envirotech Landfarm #2.

MERRION OIL & GAS
Pit Location Diagram

Keeling No. 1



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

Well: Keeling No. 1
Location: nw/ne, Sec 20, T25N, R8W
San Juan County, New Mexico
Drawn by: CSD
Date: December 20, 2005

ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Merrion Oil	Project #:	03048-009
Sample ID:	4 Wall Composite	Date Reported:	05-10-05
Laboratory Number:	32909	Date Sampled:	05-09-05
Chain of Custody:	14020	Date Received:	05-09-05
Sample Matrix:	Soil	Date Analyzed:	05-10-05
Preservative:	Cool	Date Extracted:	05-09-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	2.1
Toluene	7.6	1.8
Ethylbenzene	8.3	1.7
p,m-Xylene	28.8	1.5
o-Xylene	10.5	2.2
Total BTEX	55.2	

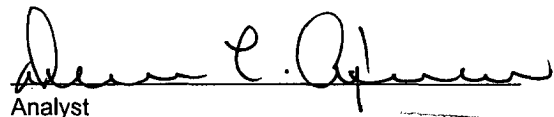
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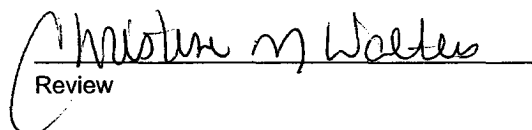
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

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: Keeling #1.


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ENVIROTECH LABS

PRACTICAL SOLUTIONS FOR A BETTER TOMORROW

EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Merrion Oil	Project #:	03048-009
Sample ID:	4 Bottom Composite	Date Reported:	05-10-05
Laboratory Number:	32910	Date Sampled:	05-09-05
Chain of Custody:	14020	Date Received:	05-09-05
Sample Matrix:	Soil	Date Analyzed:	05-10-05
Preservative:	Cool	Date Extracted:	05-09-05
Condition:	Cool & Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	ND	2.1
Toluene	3.0	1.8
Ethylbenzene	19.3	1.7
p,m-Xylene	144	1.5
o-Xylene	33.7	2.2
Total BTEX	200	

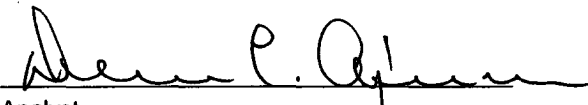
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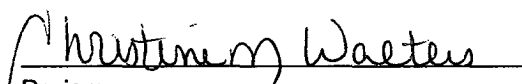
Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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: Keeling #1.


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

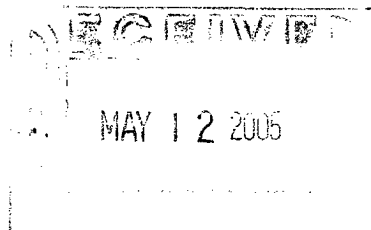
Client:	Merrion Oil	Project #:	03048-009
Sample ID:	4 Wall Composite	Date Reported:	05-10-05
Laboratory Number:	32909	Date Sampled:	05-09-05
Chain of Custody No:	14020	Date Received:	05-09-05
Sample Matrix:	Soil	Date Extracted:	05-09-05
Preservative:	Cool	Date Analyzed:	05-10-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH


Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	0.4	0.1
Total Petroleum Hydrocarbons	0.4	0.2

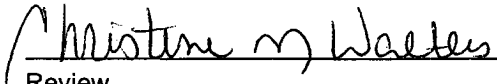
ND - Parameter not detected at the stated detection limit.

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

Comments: **Keeling #1.**




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Review

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

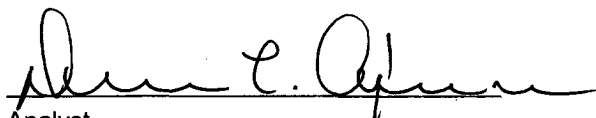
Client:	Merrion Oil	Project #:	03048-009
Sample ID:	4 Bottom Composite	Date Reported:	05-10-05
Laboratory Number:	32910	Date Sampled:	05-09-05
Chain of Custody No:	14020	Date Received:	05-09-05
Sample Matrix:	Soil	Date Extracted:	05-09-05
Preservative:	Cool	Date Analyzed:	05-10-05
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

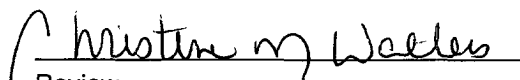
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	2.7	0.2
Diesel Range (C10 - C28)	17.2	0.1
Total Petroleum Hydrocarbons	19.9	0.2

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: **Keeling #1.**


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