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

Form C-144

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

Pit or Below-Grade	Tank Registr	ation or Closure
Is pit or below-grade tank co	vered by a "genera	ıl plan"? Yes 🖂 No 🗍

	or below-grade tank 🖄 Closure of a pit or below-grade	de tank				
Operator: Merrion Oil & Gas	Telephone:(505) 324-5326 e-mail add	ress: <u>cdinning@merrion.bz</u>				
Address: 610 Reilly Ave. Farmington, NM 87401						
Facility or well name: Osbom # 1 API #: 30-045-	09297 U/L or Qtr/Qtr Sec 22 T 30N	R_12W_				
County: San Juan Latitude Longitude	NAD: 1927 🗌 1983 🔲 Surface Ow	mer Federal 🗌 State 🗌 Private 🔀 Indian 🗍				
	1					
<u>Pit</u>	Below-grade tank					
Type: Drilling Production Disposal Volume:bbl Type of fluid:						
Workover Emergency						
Lined Unlined 🛛	Double-walled, with leak detection? Yes If not	, explain why not.				
Liner type: Synthetic Thicknessmil Clay						
Pit Volumebbl						
Depth to ground water (vertical distance from bottom of pit to seasonal high	Less than 50 feet	(20 points) 20				
water elevation of ground water.)	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	Yes	(20 points)				
water source, or less than 1000 feet from all other water sources.)	No	(0 points) 20				
	Less than 200 feet	(20 points) 20				
Distance to surface water: (horizontal distance to all wetlands, playas,	200 feet or more, but less than 1000 feet	(10 points)				
irrigation canals, ditches, and perennial and ephemeral watercourses.)	1000 feet or more	(0 points)				
		60				
	Ranking Score (Total Points)					
If this is a pit closure: (1) attach a diagram of the facility showing the pit's		- · · · · · · · · · · · · · · · · · · ·				
your are burying in place) onsite \(\square\) offsite \(\text{M}\) If offsite, name of facility \(\text{F}\)	<u>invironmental Protection Services</u> . (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 sur	face ± 10 ft. and attach sample				
results. (5) Attach soil sample results and a diagram of sample locations and	excavations.					
Additional Comments:						
I hereby certify that the information above is true and complete to the best of been/will be constructed or closed according to NMOCD guidelines □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □	f my knowledge and belief. I further certify that the a general permit , or an (attached) alternative O	e above-described pit or below-grade tank has CD-approved plan □.				
Printed Name/Title Connie Dinning/Production Engineer	Signature					
Your certification and NMOCD approval of this application/closure does no otherwise endanger public health or the environment. Nor does it relieve the regulations.	t relieve the operator of liability should the contents of	f the pit or tank contaminate ground water or other federal, state, or local laws and/or				
Approval: DEPUTY OIL & GAS INSPECTOR, DIST.	19	# DEC - 0 2004				
Printed Name/Title	Signature Sery for	Date:				
		<u>/</u>				

MERRION

OIL & GAS

Date: 8/27/04

Lease Name: Osborn #1

Case Narrative:

In July 1994 the production pit on the Osborn # 1 was excavated and treated in place with fertilizer and PVC vent pipes. On April 12, 2004 the pit was partially excavated. The soil in the excavation was dark in color and had a hydrocarbon odor. According to OVM readings, remediation was not complete. Merrion Oil & Gas (MOG) elected to remove the remaining contaminated soil due to the slow remediation process.

Denny Foust of the Aztec NMOCD office was notified that excavation and removal of the contaminated soil to an offsite disposal facility was planned. He agreed with our approach and we requested that he visit the site prior to our backfilling the excavation.

Pit excavation continued. Contaminated soil was hauled to Environmental Protection Services and on Crouch Mesa. When clean dirt was exposed, a composite soil sample was taken from the sides and bottom as indicated in the attached diagram. A sample of groundwater was collected from the lowest point in the excavation (closest to the irrigation return water ditch). The samples were placed on ice and taken to the lab the same day. The attached Laboratory analyses indicate that the soil samples had no hydrocarbon contamination. Both gasoline and diesel range organics were below the detection limits of the laboratory equipment. The water samples complied with groundwater standards for BTEX.

The south wall of the pit had some visible contamination at a depth of approximately 12'. There were structures belonging to the landowner on the surface directly above the contaminated area, so the area could not be excavated. The contamination had thinned considerably and appeared to be "pinching out". Denny Foust visited the location and agreed that we could collect samples from an auger to the south and slightly west of the excavation wall to see if the contamination continued in that direction.

Terracon Environmental Services collected auger samples through the depth of contamination and beyond to about 3' below the contamination showing on the excavation wall. All the auger samples were clean, indicating that the contamination did not continue beyond the excavation wall toward the irrigation return water ditch.

The groundwater in the excavation was pumped out and hauled to a water disposal facility offsite. (This was an added precaution in case any water had come into contact with contaminated soil prior to its removal.)

The excavation was backfilled with clean fill from offsite.

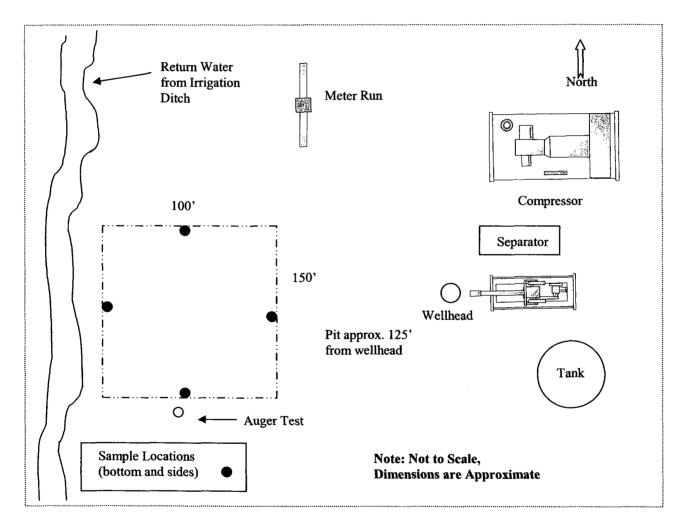
MERRION

OIL & GAS

Date: 8/3/04

Lease Name: Osborn #1

Sample Locator Diagram



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

iiná bá

P.O. Box 3788 Shiprock, NM 87420

Off: (505) 368-4065

ANALYTICAL REPORT

CLIENT:

Merrion Oil and Gas Corporation

Work Order:

0404030

Project:

Osborn 1

Lab ID:

0404030-001A

Date: 29-Apr-04

Client Sample Info: Osborn 1

Client Sample ID: Osborn #1 & #2

Collection Date: 4/19/2004 3:55:00 PM

Matrix: SOIL

Parameter	Result	PQL Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015B				Analyst: JEM
T/R Hydrocarbons: C10-C28	ND	25.0	mg/Kg	1	4/26/2004
GASOLINE RANGE ORGANICS		SW8015B			Analyst: JEM
T/R Hydrocarbons: C6-C10	ND	4.50	mg/Kg	25	4/27/2004
AROMATIC VOLATILES BY GC/PID		SW8021B			Analyst: JEM
Benzene	ND	25	μg/Kg	25	4/28/2004
Ethylbenzene	ND	25	μg/Kg	25	4/28/2004
m,p-Xylene	ND	50	μg/Kg	25	4/28/2004
o-Xylene	ND	25	μg/Kg	25	4/28/2004
Toluene	ND	50	μg/Kg	25	4/28/2004

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

612 E. Murray Drive Farmington, NM 87499

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Off: (505) 368-4065

ANALYTICAL REPORT

CLIENT:

Merrion Oil and Gas Corporation

Work Order:

0404030

Project:

Osborn 1

Lab ID:

0404030-002A

Date: 29-Apr-04

Client Sample Info: Osborn 1

Client Sample ID: Osborn #3W

Collection Date: 4/19/2004 3:45:00 PM

Matrix: AQUEOUS

Parameter	Result	PQL Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS T/R Hydrocarbons: C10-C28	0.38	SW8015B 0.25	(SW3	510B)	Analyst: JEM 4/23/2004

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

Page 2 of 3

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Off: (505) 368-4065

ANALYTICAL REPORT

CLIENT:

Merrion Oil and Gas Corporation

Work Order:

0404030

Project:

Osborn 1

Lab ID:

0404030-003A

Date: 29-Apr-04

Client Sample Info: Osborn 1

Client Sample ID: Osborn #1W & #2W

Collection Date: 4/19/2004 3:45:00 PM

Matrix: AQUEOUS

Parameter	Result	PQL Q	ual Units	DF	Date Analyzed
AROMATIC VOLATILES BY GC/PID	OMATIC VOLATILES BY GC/PID SW8021B			=	Analyst: JEM
Benzene	ND	0.5	μg/L	1	4/19/2004
Ethylbenzene	2.2	0.5	μg/L	. 1	4/19/2004
m,p-Xylene	22	1.0	μg/L	1	4/19/2004
o-Xylene	8.2	0.5	μg/L	1	4/19/2004
Toluene	0.6	0.5	μg/L	1	4/19/2004

B - Analyte detected in the associated Method Blank

H - Parameter exceeded Maximum Allowable Holding Time

R - RPD outside accepted precision limits

E - Value above Upper Quantitation Limit - UQL

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ANALYTICAL REPORT

CLIENT:

SIAMPLE AUGER Terracon

Work Order:

0405009

Old Aztec Highway, Flora Vista

Project: Lab ID:

0405009-001A

Date: 18-May-04

Client Sample Info: Old Aztec Highway

Client Sample ID: Pit Closure

Collection Date: 5/11/2004 8:45:00 AM

Matrix: SOIL

Parameter	Result	PQL Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS	SW8015B				Analyst: JEM
T/R Hydrocarbons: C10-C28	ND	25.0	mg/Kg	1	5/17/2004
AROMATIC VOLATILES BY GC/PID		SW8021B			Analyst: JEM
Benzene	ND	25	μg/Kg	25	5/14/2004
Ethylbenzene	ND	25	μg/Kg	25	5/14/2004
m,p-Xylene	ND	50	μg/Kg	25	5/14/2004
o-Xylene	ND	25	μg/Kg	25	5/14/2004
Toluene	ND	50	μg/Kg	25	5/14/2004

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