

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: <u>Western Minerals &amp; Oil LLC</u> Telephone: <u>505-320-2380</u> e-mail address: _____			
Address: <u>PO Box 1228, Farmington, NM</u> Facility or well name: <u>Marron 005A</u> API # <u>3004523128</u> U/L P-810 FSL 840 FEL Sec. 27 T-27N R-8W			
County: <u>San Juan</u>	Latitude <u>36°32.398</u>	Longitude <u>107° 39.881</u> NAD: 1927 <input type="checkbox"/> 1983 <input type="checkbox"/>	
Surface Owner: Federal <input type="checkbox"/> State <input checked="" type="checkbox"/> Private <input type="checkbox"/> Indian <input type="checkbox"/>			
<b>Pit</b> Type: Drilling <input type="checkbox"/> Production <input checked="" type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input type="checkbox"/> Unlined <input checked="" type="checkbox"/> Liner type: Synthetic <input type="checkbox"/> Thickness _____ mil Clay <input type="checkbox"/> Pit Volume _____ bbl	<b>Below-grade tank</b> Volume: _____ bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain _____		
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet 100 feet or more <input checked="" type="checkbox"/>		(20 points) (10 points) ( 0 points) <input checked="" type="checkbox"/>
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No <input checked="" type="checkbox"/>		(20 points) ( 0 points) <input checked="" type="checkbox"/>
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more <input checked="" type="checkbox"/>		(20 points) (10 points) ( 0 points) <input checked="" type="checkbox"/>
<b>Ranking Score (Total Points)</b>			<b>0</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: Decommissioned Production Pit. A dehydrator pit is also on site but is not closeable at this time. WM&O plans to excavate the pit to closeable levels and landfarm the spoils. A separate C 144 will be filed with NM OCD when the remediation of the pit is complete.

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: 2/1/06  
Printed Name/Title: THOMAS J. SMITH, AGENT Signature: Thomas J. Smith

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. 8  
Printed Name/Title: \_\_\_\_\_ Signature: Denny Ray Date: MAR 01 2006



November 14, 2005

SMA Project: 5115625

RE: Sampling activities for Pit Closure at the Marron 005A. Unit P, Sec. 27, T 27N, R 8W, Blanco/Mesa Verde, San Juan County NM. State Lease 03605A. API 3004523128.

On November 1, 2005, SMA mobilized to the unlined production pit at the Marron 005A. The dimensions of the unlined pit are approximately 20 X 20 X 4 feet. SMA collected a five-point composite soil sample from the center and each corner of the pit bottom for field analysis by Photo Ionization Detector (PID). A four-point composite soil sample was collected from the sidewalls for field analysis by PID. The pit bottom composite sample showed a PID reading of 2.1 units and the sidewall composite sample showed a PID reading of 1.2 units. Soil samples for closure were collected for laboratory analysis. Samples were analyzed for Diesel Range Organics (DRO), and Gasoline Range Organics (GRO) by Method 8015B. Based on Field Screening with a PID, BTEX was not analyzed by laboratory methods. The laboratory analysis of the closure samples showed hydrocarbon levels of:

November 1, 2005	PID Units	DRO ppm	GRO ppm	BTEX ppm
4 Point Sidewall	1.2	1150 ppm	BDL	NA
5 Point Pit Bottom	2.1	2410	BDL	NA

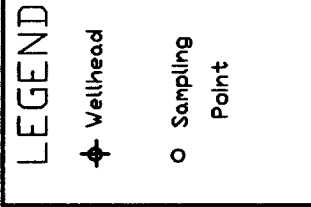
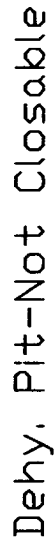
BDL: Below Detection Limits

NA: Not Analyzed

No remedial excavation is required based on laboratory analysis of soil samples. On behalf of our client, Western Minerals and Oil, SMA requests closure for this pit. Groundwater was not encountered.

Respectfully submitted,

John Hagstrom  
Environmental Technician  
Souder, Miller and Associates



**940**  
**Civil/Environmental  
Scientists & Engineers**

612 E. MURRAY DR.  
FARMINGTON, NM 87401  
PH. (505) 325-5687  
FAX (505) 327-1496

Marron 005A Production Pit  
810 FSL, 840 FEL, S27, T27N, R8W  
API 3004523128  
San Juan County, NM

APPROVED:	DATE:
DRWN BY: JPH	DATE: 11/14/05
CHK'D BY:	DATE:
PROJECT NO: 5115625	SHEET: 1 OF 1

612 E. Murray Drive  
Farmington, NM 87499

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P.O. Box 3788  
Shiprock, NM 87420

Off: (505) 327-1072

**ANALYTICAL REPORT**

Date: 14-Nov-05 Off: (505) 368-4065

**CLIENT:** Souder, Miller & Associates

**Client Sample Info:** Maron 5A

**Work Order:** 0511001

**Client Sample ID:** Prod. Pit 4 PT Sidewall

**Project:** Maron 5A/5115625

**Collection Date:** 11/1/2005 1:50:00 PM

**Lab ID:** 0511001-003A

**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	1150	25.0		mg/Kg	1	11/10/2005
Surr: o-Terphenyl	101	46.8-124		%REC	1	11/10/2005
<b>GASOLINE RANGE ORGANICS</b>		<b>SW8015B</b>		Analyst: JEM		
T/R Hydrocarbons: C6-C10	ND	4.50		mg/Kg	25	11/6/2005
Surr: Trifluorotoluene	107	71.9-125		%REC	25	11/6/2005

**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

612 E. Murray Drive  
Farmington, NM 87499



P.O. Box 3788  
Shiprock, NM 87420

Off: (505) 327-1072

# ANALYTICAL REPORT

Date: 14-Nov-05 Off: (505) 368-4065

**CLIENT:** Souder, Miller & Associates

**Client Sample Info:** Maron 5A

**Work Order:** 0511001

**Client Sample ID:** Prod. Pit 5 PT Pit Bottom

**Project:** Maron 5A/5115625

**Collection Date:** 11/1/2005 1:50:00 PM

**Lab ID:** 0511001-004A

**Matrix:** SOIL

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015B</b>				Analyst: <b>JEM</b>
T/R Hydrocarbons: C10-C28	2410	125		mg/Kg	5	11/10/2005
Surr: o-Terphenyl	133	46.8-124	S	%REC	5	11/10/2005
<b>GASOLINE RANGE ORGANICS</b>		<b>SW8015B</b>				Analyst: <b>JEM</b>
T/R Hydrocarbons: C6-C10	ND	4.50		mg/Kg	25	11/6/2005
Surr: Trifluorotoluene	105	71.9-125		%REC	25	11/6/2005

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