

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 ☒

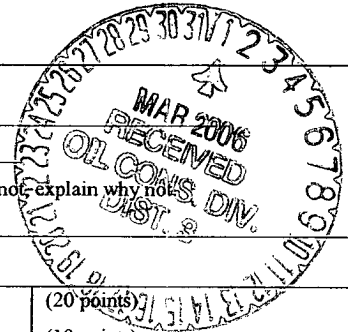
Operator: Western Minerals & Oil LLC Telephone: 505-320-2380 e-mail address: \_\_\_\_\_  
Address: PO Box 1228, Farmington, NM Facility or well name: Marron 005 API #: 3004521316 U/E: P-2200 FNE-790 FEE Sec: 27 T: 27N R-8W  
County: San Juan Latitude 36°32.726 Longitude 107° 39.866 NAD: 1927 ☐ 1983 ☐  
Surface Owner: Federal ☐ State ☐ Private ☒ Indian ☐

**Pit**

Type: Drilling ☐ Production ☒ Disposal ☐  
Workover ☐ Emergency ☐  
Lined ☐ Unlined ☒  
Liner type: Synthetic ☐ Thickness \_\_\_\_\_ mil Clay ☐  
Pit Volume \_\_\_\_\_ bbl

**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 X	( 0 points) X
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 X	( 0 points) X
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 X	( 0 points) X
Ranking Score (Total Points)		0

- 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.

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 Signature: Deputy Date: MAR 01 2006



November 14, 2005

SMA Project: 5115625

RE: Sampling activities for Pit Closure at the Marron 005. Unit H, 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 15 X 15 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 0.6 units and the sidewall composite sample showed a PID reading of 0.8 units. Soil samples for closure were collected for laboratory analysis. Samples were analyzed for Diesel Range Organics (DRO), and Gasoline Range Organics (GRO) by EPA Method 8015B. Based on Field Screening with a PID, BTEX was analyzed by US EPA Method 8021B. 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	0.8	12 ppm	BDL	BDL
5 Point Pit Bottom	0.6	11 ppm	BDL	BDL

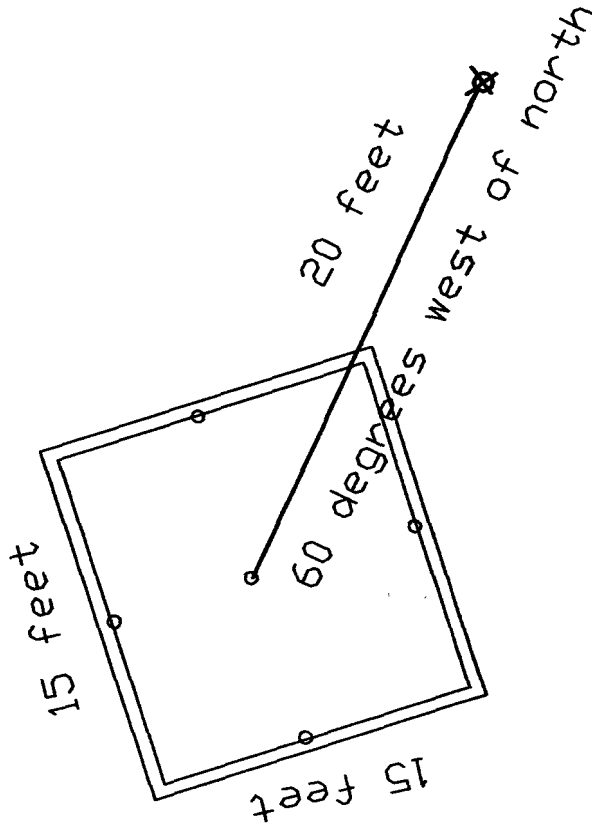
BDL: Below Detection Limits

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



NTS

### LEGEND

Wellhead

Sampling Point

**SAE**  
Civil/Environmental  
Scientists & Engineers  
612 E. MURRAY DR. PH. (505) 325-5667  
FARMINGTON, NM 87401 FAX (505) 327-1498

APPROVED:

DRWN BY: JPH

CHK'D BY:

PROJECT NO: 5115625

DATE:

DATE: 11/14/05

DATE:

SHEET: 1 OF 1

Marron 005  
2200 FNL, 790 FEL, S27, T27N, R8W  
API 3004521316  
San Juan County, NM

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 5

**Work Order:** 0511002

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

**Project:** Maron 5/5115625

**Collection Date:** 11/1/2005 12:20:00 PM

**Lab ID:** 0511002-001A

**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	12	25.0	J	mg/Kg	1	11/6/2005
Surr: o-Terphenyl	87.0	46.8-124		%REC	1	11/6/2005
<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	109	71.9-125		%REC	25	11/6/2005
<b>AROMATIC VOLATILES BY GC/PID</b>		<b>SW8021B (SW5035A)</b>		Analyst: JEM		
Benzene	ND	50.0		µg/Kg	25	11/8/2005
Toluene	ND	50.0		µg/Kg	25	11/8/2005
Ethylbenzene	ND	50.0		µg/Kg	25	11/8/2005
m,p-Xylene	ND	100		µg/Kg	25	11/8/2005
o-Xylene	ND	50.0		µg/Kg	25	11/8/2005
Surr: Fluorobenzene	102	80-120		%REC	25	11/8/2005
Surr: 1,4-Difluorobenzene	102	80-120		%REC	25	11/8/2005
Surr: 4-Bromochlorobenzene	98.5	50-140		%REC	25	11/8/2005

**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

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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 5

**Work Order:** 0511002

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

**Project:** Maron-5/5115625

**Collection Date:** 11/1/2005 12:20:00 PM

**Lab ID:** 0511002-002A

**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	11	25.0	J	mg/Kg	1	11/6/2005
Surr: o-Terphenyl	72.7	46.8-124		%REC	1	11/6/2005
<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
<b>AROMATIC VOLATILES BY GC/PID</b>		<b>SW8021B (SW5035A)</b>		Analyst: JEM		
Benzene	ND	50.0		µg/Kg	25	11/8/2005
Toluene	ND	50.0		µg/Kg	25	11/8/2005
Ethylbenzene	ND	50.0		µg/Kg	25	11/8/2005
m,p-Xylene	ND	100		µg/Kg	25	11/8/2005
o-Xylene	ND	50.0		µg/Kg	25	11/8/2005
Surr: Fluorobenzene	102	80-120		%REC	25	11/8/2005
Surr: 1,4-Difluorobenzene	101	80-120		%REC	25	11/8/2005
Surr: 4-Bromochlorobenzene	96.8	50-140		%REC	25	11/8/2005

**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