

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

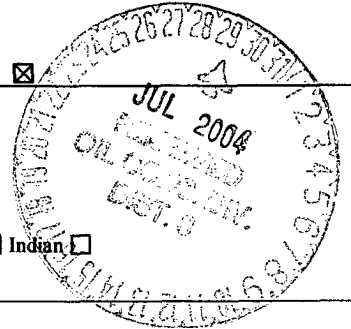
For drilling and production facilities, submit to appropriate NMOCD District Office.  
For downstream facilities, submit to Santa Fe office

**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: Great Western Drilling Co. Telephone: 505-327-4892 e-mail address: paul@walsheng.net  
Address: 7415 E. Main St. Farmington, NM 87402  
Facility or well name: Nordhaus #9 API #: 30-039-27591 U/L or Qtr/Qtr B Sec 19 T 25N R7W  
County: Rio Arriba Latitude Longitude NAD: 1927  1983  Surface Owner Federal  State  Private  Indian



<b>Pit</b> Type: Drilling <input checked="" type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input type="checkbox"/> Emergency <input type="checkbox"/> Lined <input checked="" type="checkbox"/> Unlined <input type="checkbox"/> Liner type: Synthetic <input checked="" type="checkbox"/> Thickness 12 mil Clay <input type="checkbox"/> Pit Volume 500 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 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) 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 X (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 X (0 points) 0	
<b>Ranking Score (Total Points)</b>		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:

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: 07/07/04

Printed Name/Title Paul C. Thompson, P.E.

Signature *Paul C. Thompson*

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 *Denny Feert*

Signature \_\_\_\_\_

DEPUTY OIL & GAS INSPECTOR, DIST. #1

Date: \_\_\_\_\_

JUL 29 2004

612 E. Murray Drive  
Farmington, NM 87401

Off: (505) 327-1072

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P.O. Box 2606  
Farmington, NM 87499

Fax: (505) 327-1496

## ANALYTICAL REPORT

Date: 21-Jul-04

**CLIENT:** Walsh Engineering 7 Production Corp.  
**Work Order:** 0406014  
**Project:** Landfarm and Reserve Pits  
**Lab ID:** 0406014-003A

**Client Sample Info:** Norhaus Fed #9  
**Client Sample ID:** Reserve Pit  
**Collection Date:** 6/8/2004 4:00:00 PM  
**Matrix:** SOIL

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>						
T/R Hydrocarbons: C10-C28	80.4	75.0		mg/Kg	1	6/15/2004
Analyst: JEM						
<b>GASOLINE RANGE ORGANICS</b>						
T/R Hydrocarbons: C6-C10	ND	4.50		mg/Kg	25	6/17/2004
Analyst: JEM						
<b>AROMATIC VOLATILES BY GC/PID</b>						
SW8021B Analyst: JEM						
Benzene	ND	25		µg/Kg	25	6/19/2004
Ethylbenzene	10	25	J	µg/Kg	25	6/19/2004
m,p-Xylene	30	50	J	µg/Kg	25	6/19/2004
Methyl tert-Butyl Ether	ND	250		µg/Kg	25	6/19/2004
o-Xylene	ND	25		µg/Kg	25	6/19/2004
Toluene	20	50	J	µg/Kg	25	6/19/2004
<b>TRACE METALS IN SOIL</b>						
SW6010B (SW3050B) Analyst: DWC						
Arsenic	2	2.3	J	mg/Kg	1	6/22/2004
Barium	76	0.87		mg/Kg	1	6/21/2004
Cadmium	ND	0.68		mg/Kg	1	6/21/2004
Chromium	7.6	1.2		mg/Kg	1	6/21/2004
Lead	4.3	1.6		mg/Kg	1	6/21/2004
Selenium	ND	2.1		mg/Kg	1	6/21/2004
Silver	ND	0.19		mg/Kg	1	6/21/2004
<b>MERCURY, TOTAL</b>						
SW7471 (SW7471) Analyst: JEM						
Mercury	0.011	0.018	J	mg/Kg	1	7/12/2004
<b>ANIONS BY ION CHROMATOGRAPHY</b>						
E300 (E300) Analyst: JEM						
Chloride	13900	20.0		ppm	200	6/14/2004

**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 3 of 3

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

Report Number  
04-191-2111



13611 "B" Street • Omaha, Nebraska 68144-3693 • (402) 334-7770 • FAX (402) 334-9121  
www.midwestlabs.com

ina ba, LTD

Mail to:

Judy MOORE  
PO BOX 2606  
FARMINGTON NM 87499-2606

REPORT OF ANALYSIS

For: ( 6833) ON SITE TECHNOLOGIES LTD  
(505)325-5667

Date Reported: 07/09/04  
Date Received: 07/02/04  
Date Sampled: 06/08/04

PO/Proj. #: ???  
SOIL ANALYSIS

NORDHAUS FED #9 RESERVE PIT

Lab number: 988680 Sample ID: 0406014-003A

Analysis	Level Found	Units	Detection Limit	Method	Analyst-Date
Sodium Adsorption Ratio	21,020	mg/L	1.0	CALCULATED	jpt-07/02
Sodium (water soluble)	1.0	mg/L	1.0	SATURATED PASTE EXTRACT	jpt-07/09
Magnesium (water soluble)	187	mg/L	1.0	SATURATED PASTE EXTRACT	jpt-07/09
Calcium (water soluble)	66.6	mS/cm	0.01	SATURATED PASTE EXTRACT	ding-07/09

Respectfully Submitted

Heather Ramig/Sue Ann Seitz/Rob Ferris  
Client Services

$$ESP = \frac{100(-0.0126 + 0.01475 SAR)}{1 + (-0.0126 + 0.01475 SAR)}$$

$$ESP = \frac{100(-0.0126 + 0.01475 SAR)}{1 + (-0.0126 + 0.01475 SAR)}$$

$$ESP = \frac{619.7150}{669.1900} = 0.927$$

The above analytical results apply only to the sample(s) submitted.

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**iiná bá**

Date: 21-Jul-04

**CLIENT:** Walsh Engineering 7 Production Corp.  
**Project:** Landfarm and Reserve Pits  
**Lab Order:** 0406014

## CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

Any quality control and/or data qualifiers associated with this laboratory order will be flagged in the analytical result page(s), the quality control summary report(s) or the sample receipt checklist. Prep Comments for HG\_SP, Sample 0406014-002A: The prep HoldTime was exceeded by 5.73 days. Prep Comments for HG\_SP, Sample 0406014-003A: The prep HoldTime was exceeded by 5.75 days.

0406014-003A

Conductivity: 66.66 mS/cm  
SAR: 421 Calculated  
ESP: 86.10 Calculated

*Nordhaus Fed #9*

0406014-002A

Conductivity: 36.9 mS/cm  
SAR: 73.0 Calculated  
ESP: 51.6 Calculated

*Nordhaus Fed #8*