

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: Roddy Production Company, Inc. Telephone: 505 325-5750 e-mail address: \_\_\_\_\_  
Address: P.O. Box 2221, Farmington, New Mexico 87499  
Facility or well name: Lucerne Federal #4 API #: 30-045-29162 U/L or Qtr/Qtr E Sec 21 T 28N R 11W  
County: San Juan County Latitude 36.65008 Longitude 108.01486 NAD: 1927 ☒ 1983 ☐ Surface Owner Federal ☒ State ☐ Private ☐ Indian ☐

Pit	Below-grade tank	
Type: Drilling <input type="checkbox"/> Production <input type="checkbox"/> Disposal <input type="checkbox"/> Workover <input checked="" 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 <u>N/A</u> bbl	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	( 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) (0)
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: <b>One Pit</b> Lucerne Federal #4 Work over pit.
Lucerne Federal #4 Sample location map for the work over pit
Lucerne Federal #4 Lab analysis for work over pit.
Lucerne Federal #4 Location is outside the define area

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 ☐.

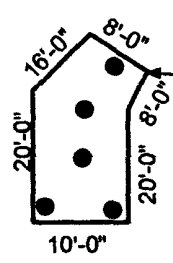
Date: Oct 13, 2004

Printed Name/ Title: Robert R. Griffiee, Operations Manager 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: DEPUTY OIL & GAS INSPECTOR, DIST. #1

Printed Name/Title: \_\_\_\_\_ Signature: [Signature] Date: OCT 14 2004



**Proposed  
Work Over Pit**

55'-0"



Well Head

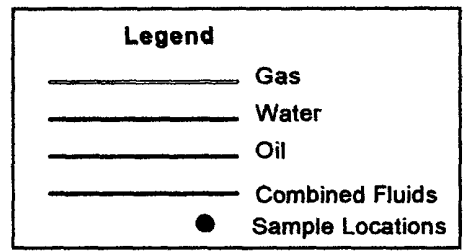
Combined Fluids

Horizontal  
Separator



Plastic Pit

Meter  
House



**Roddy Production Company, Inc.**  
P.O. Box 2221 Farmington, New Mexico 87499  
Telephone: (505) 325 5750 (505) 325 5866

**Pit Closure Sample  
location Map**  
**Lucrene Federal # 4**  
1765' FNL 790 FWL  
Sec 21, T28N, R11W  
San Juan, County, NM  
Prepared by cds 09/08/04

612 E. Murray Drive  
Farmington, NM 87401

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

*iiná bá*

P.O. Box 3788  
Shiprock, NM 87420

Off: (505) 368-4065

October 06, 2004

Craig Starkey (ext. 14)  
D.J. Simmons Company  
1009 Ridgeway Pl. Suite 200  
Farmington, NM 87401

TEL: (505) 326-3753  
FAX (505) 327-4659

RE: Lucerne Workover Pit

Order No.: 0408025

Dear Craig Starkey (ext. 14):

iiná bá received 1 sample on 8/26/2004 for the analyses presented in the following report.

This certificate of analysis includes the Analytical Report(s) for the sample(s) received by the laboratory. A Quality Control Summary Report, the Sample Receipt Checklist and an executed Chain of Custody are included as an addendum to this report.

Should you have any questions regarding this certificate of analysis, please contact the laboratory at your convenience.

Report Approved By:



Judy Moore  
Laboratory Director

Edwina Aspaas  
Quality Assurance Officer

This certificate of analysis and respective material is intended only for the use of the individual(s) or entity to whom it is addressed, and may contain information that is privileged and confidential. If you are not the intended recipient, or the person responsible for delivering this to the intended recipient, you are hereby notified that any dissemination, distribution, or copying of this material is strictly prohibited. If you have received this material in error, please notify the laboratory immediately at 505-327-1072.



MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT

612 E. Murray Drive  
Farmington, NM 87499

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

*iina' ba'*

P.O. Box 3788  
Shiprock, NM 87420

Off: (505) 368-4065

**iina' ba'**

**Date:** 06-Oct-04

**CLIENT:** D.J. Simmons Company  
**Project:** Lucerne Workover Pit  
**Lab Order:** 0408025

## **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.

The selenium tests were performed three (3) times. All three (3) times, the Laboratory Control Standard (LCS) failed. Therefore, the batch results were not accepted. The samples have now exceeded their preparation hold time.

8015 Diesel samples were extracted by iina' ba'. Extract sample analyses were analyzed by subcontractor Hall Environmental Analysis Laboratory. The Hall Environmental Analysis Laboratory results were reported in iina' ba' analytical reports. The Hall Environmental Analysis Laboratory QA and QC reports are included.

Conductivity: 9.610 mmhos/cm (see Note 1)  
Sodium adsorption ratio: 11.4 Calculated  
Exchangeable sodium percentage: 13.5 Calculated

Note 1: Midwest Laboratories, Inc. reported conductivity units as mS/cm. By definition S = mho. Therefore, mS/cm = mmhos/cm. The Midwest Laboratories, Inc. results are shown here as mmhos/cm.

612 E. Murray Drive  
Farmington, NM 87499

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

# iiná bá

P.O. Box 3788  
Shiprock, NM 87420

Off: (505) 368-4065



Date: 06-Oct-04

**CLIENT:** D.J. Simmons Company  
**Lab Order:** 0408025  
**Project:** Lucerne Workover Pit  
**Lab ID:** 0408025-001B

**Client Sample ID:** Lucerne #4  
**Tag Number:** Lucerne Workover Pit  
**Collection Date:** 8/25/2004 6:00:00 PM  
**Matrix:** SOIL

**COC#:** 4298

Analyses	Result	Limit	Qual	Units	DF	Date Analyzed
<b>DIESEL RANGE ORGANICS</b>		<b>SW8015B</b>				Analyst: <b>SUB</b>
T/R Hydrocarbons: C10-C28	310	25.0		mg/Kg	1	9/22/2004
<b>GASOLINE RANGE ORGANICS</b>		<b>SW8015B</b>				Analyst: <b>JEM</b>
T/R Hydrocarbons: C6-C10	ND	4.50		mg/Kg	25	9/2/2004
Surr: Trifluorotoluene	85.3	84-149		%REC	25	9/2/2004
<b>AROMATIC VOLATILES BY GC/PID</b>		<b>SW8021B</b>				Analyst: <b>JEM</b>
Benzene	ND	25		µg/Kg	25	9/1/2004
Ethylbenzene	ND	25		µg/Kg	25	9/1/2004
m,p-Xylene	ND	50		µg/Kg	25	9/1/2004
Methyl tert-Butyl Ether	ND	250		µg/Kg	25	9/1/2004
o-Xylene	ND	25		µg/Kg	25	9/1/2004
Toluene	ND	50		µg/Kg	25	9/1/2004
Surr: 1,4-Difluorobenzene	81.2	75-110		%REC	25	9/1/2004
Surr: 4-Bromochlorobenzene	89.6	40-135		%REC	25	9/1/2004
Surr: Fluorobenzene	73.9	69-110		%REC	25	9/1/2004
<b>TRACE METALS IN SOIL</b>		<b>SW6010B</b>				Analyst: <b>JEM</b>
Arsenic	1.4	0.047		mg/Kg	1	10/5/2004
Barium	180	0.018		mg/Kg	1	10/5/2004
Cadmium	ND	0.014		mg/Kg	1	10/4/2004
Chromium	6.5	0.025		mg/Kg	1	10/4/2004
Lead	350	0.033		mg/Kg	1	10/4/2004
Selenium	ND	0.044		mg/Kg	1	10/6/2004
Silver	ND	0.0040		mg/Kg	1	10/4/2004
<b>ANIONS BY ION CHROMATOGRAPHY</b>		<b>E300</b>				Analyst: <b>JEM</b>
Chloride	1460	20.0		ppm	200	9/27/2004

**Qualifiers:** ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range

\* - Value exceeds Maximum Contaminant Level

Page 1 of 1

MAINTAINING HARMONY BETWEEN MAN AND HIS ENVIRONMENT



Report Number  
04-247-2135

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

www.midwestlabs.com

### REPORT OF ANALYSIS

For: ( 6833) IINA BA  
(505)325-5667

Mail to: IINA BA  
JUDY MOORE  
612 MURRAY DRIVE  
FARMINGTON NM 87401-

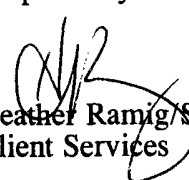
Date Reported: 09/03/04  
Date Received: 08/27/04  
Date Sampled: 08/25/04

### SOIL ANALYSIS

Lab number: 1006010    Sample ID: 0408025-001A    LUCERNE#4 WORKOVER PIT

Analysis	Level Found	Units	Detection Limit	Method	Analyst-Date
Sodium Adsorption Ratio	11.4			CALCULATED	jpt-08/27
Sodium (water soluble)	466	mg/L	1.0	SATURATED PASTE EXTRACT	jpt-08/31
Magnesium (water soluble)	11	mg/L	1.0	SATURATED PASTE EXTRACT	jpt-08/31
Calcium (water soluble)	108	mg/L	1.0	SATURATED PASTE EXTRACT	jpt-08/31
Conductance	9.610	mS/cm	0.002	EPA 120.1	dmg-09/02
Exchangeable sodium percentage	13.5	%	0.1	CALC.	jpt-08/27

Respectfully Submitted

  
Heather Ramig/Sue Ann Seitz/Rob Ferris  
Client Services

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

Our reports and letters are for the exclusive and confidential use of our clients and may not be reproduced in whole or in part, nor may any reference be made to the work, the results, or the company in any advertising, news release, or other public announcements without obtaining our prior written authorization.

COVER LETTER

September 28, 2004

Judy Moore  
iina ba, Ltd  
612 E. Murray Drive  
Farmington, NM 87401  
TEL: (505) 327-1072  
FAX (505) 327-1496

RE: 0408025

Order No.: 0409203

Dear Judy Moore:

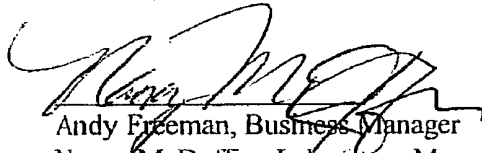
Hall Environmental Analysis Laboratory received 1 sample on 9/22/2004 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent.

Reporting limits are determined by EPA methodology. No determination of compounds below these (denoted by the ND or < sign) has been made.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

  
Andy Freeman, Business Manager  
Nancy McDuffie, Laboratory Manager



# Hall Environmental Analysis Laboratory

Date: 30-Sep-04

CLIENT: iina ba, Ltd Client Sample ID: 0408025-001B  
Lab Order: 0409203 LUCERNE#4 Tag Number:  
Project: 0408025 Collection Date: 8/25/2004 6:00:00 PM  
Lab ID: 0409203-01A WORKOVER PIT Matrix: EXTRACT

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE						Analyst: JMP
Diesel Range Organics (DRO)	310	10		mg/Kg	1	9/22/2004 11:32:57 PM
Motor Oil Range Organics (MRO)	130	50		mg/Kg	1	9/22/2004 11:32:57 PM
Surr: o-Terphenyl	103	60-124		%REC	1	9/22/2004 11:32:57 PM

Qualifiers: ND - Not Detected at the Reporting Limit  
J - Analyte detected below quantitation limits  
B - Analyte detected in the associated Method Blank  
\* - Value exceeds Maximum Contaminant Level

S - Spike Recovery outside accepted recovery limits  
R - RPD outside accepted recovery limits  
E - Value above quantitation range