

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>Range Operating New Mexico, Inc</u> Telephone: <u>(505) 631-0926</u> e-mail address: <u>salmager@rangeresources.com</u>		
Address: <u>P.O. Box 2510 Hobbs, NM 88241</u>		
Facility or well name: <u>Grizzell "B" #7</u> #: <u>30-025-37611</u> U/L or Qtr/Qtr <u>SW/NE</u> Sec <u>8</u> T <u>22S</u> R <u>37E</u>		
County: <u>Lea</u> Latitude <u>N 32° 24.41'</u> Longitude <u>W 103° 11.044'</u> NAD: 1927 <input checked="" type="checkbox"/> 1983 <input type="checkbox"/>		
Surface Owner: Federal <input type="checkbox"/> State <input type="checkbox"/> Private <input type="checkbox"/> Indian <input checked="" type="checkbox"/>		
<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 <u>20</u> mil Clay <input type="checkbox"/> Pit Volume <u>      </u> bbl	<b>Below-grade tank</b> Volume: <u>      </u> bbl Type of fluid: <u>      </u> Construction material: <u>      </u> Double-walled, with leak detection? Yes <input type="checkbox"/> If not, explain why not. <u>      </u>	
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) <b>71'</b>
	100 feet or more	( 0 points)
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) <b>X</b>
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) <b>X</b>
<b>Ranking Score (Total Points)</b>		<b>10</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 Sundance. (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: All fluids were removed from the pit. The burial pit was constructed adjacent to the drilling pit. The burial pit was lined with a 12 ml liner. Impacted material was placed in the burial pit, completely encapsulated and capped with a 20 ml liner, and covered with 3 feet of topsoil to grade.

Hydrocarbon impacted soil was disposed at an NMOCD approved facility.

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: 9-12-06

Printed Name/Title: Steve Almager, Production Supervisor

Signature [Signature]

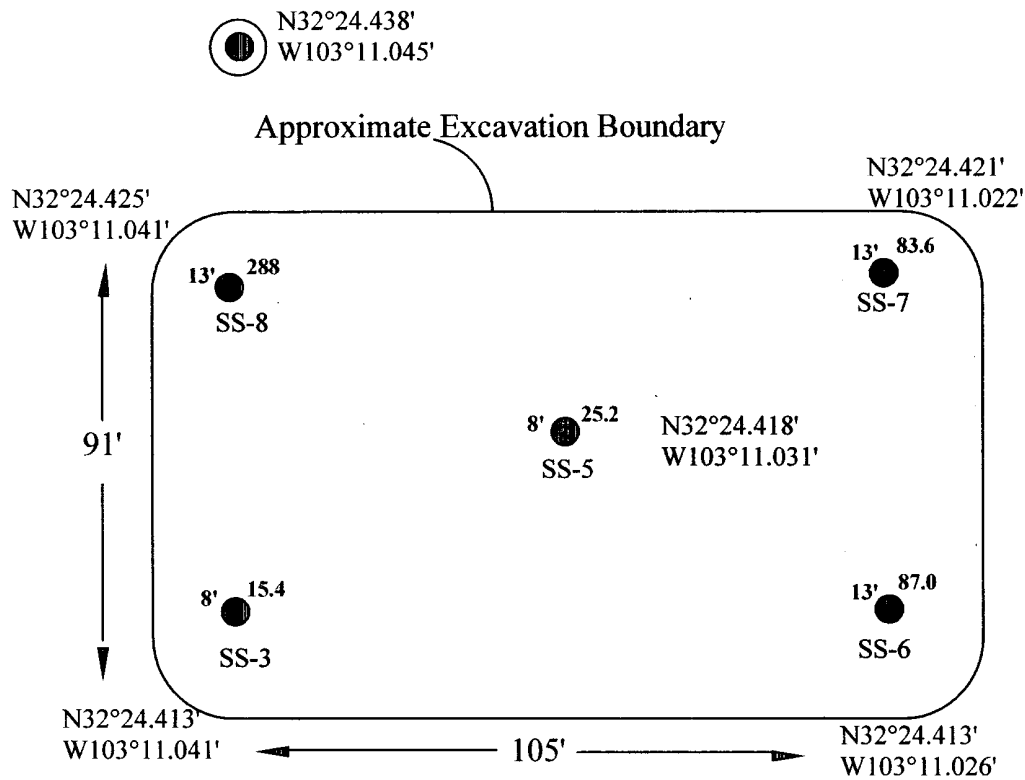
Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

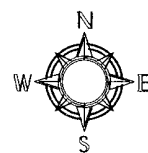
Printed Name/Title: GARY W. WINK/STAFF MEMBER

Signature [Signature]

Date: 10/5/06

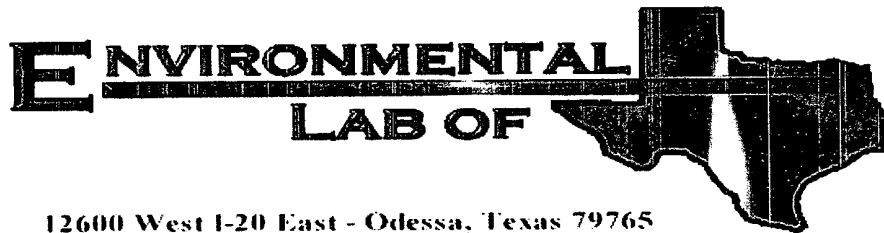


<p>8' 15.4</p> <p>SS-3</p> <p>Wellhead location</p> <p>N32°24.413' W103°11.041'</p>	<p><b>LEGEND</b></p> <p>Soil sample location taken at a depth bgs, with chloride concentration (mg/kg).</p> <p>GPS Coordinates</p>
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DATE: 09-01-06  
NAME: CHH  
PROJECT NO.: 6-0131

<p><b>FIGURE # 1</b></p> <p>LEA COUNTY, NEW MEXICO</p>	
<p><b>Range Resources</b></p> <p>Grizzell B #7</p> <p>U.L.G, Sec.8, T22S, R37E</p>	<p><b>Site Drawing</b></p> <p>( Not to Scale )</p>
<p>Ocotillo ENVIRONMENTAL</p>	



12600 West I-20 East - Odessa, Texas 79765

## Analytical Report

**Prepared for:**

Cindy Crain

Ocotillo Environmental

2125 French Dr.

Hobbs, NM 88201

Project: Grizzell B #7

Project Number: None Given

Location: Eunice, NM

Lab Order Number: 6H31001

Report Date: 09/05/06

Ocotillo Environmental  
2125 French Dr.  
Hobbs NM, 88201

Project: Grizzell B #7  
Project Number: None Given  
Project Manager: Cindy Crain

Fax: (432) 367-6747

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-1	6H31001-01	Soil	08/30/06 13:10	08-31-2006 08:15
SS-2	6H31001-02	Soil	08/30/06 13:13	08-31-2006 08:15
SS-3	6H31001-03	Soil	08/30/06 13:18	08-31-2006 08:15
SS-4	6H31001-04	Soil	08/30/06 13:21	08-31-2006 08:15
SS-5	6H31001-05	Soil	08/30/06 13:23	08-31-2006 08:15
SS-6	6H31001-06	Soil	08/30/06 15:10	08-31-2006 08:15
SS-7	6H31001-07	Soil	08/30/06 15:15	08-31-2006 08:15
SS-8	6H31001-08	Soil	08/30/06 15:31	08-31-2006 08:15

Ocotillo Environmental  
2125 French Dr.  
Hobbs NM, 88201

Project: Grizzell B #7  
Project Number: None Given  
Project Manager: Cindy Crain

Fax: (432) 367-6747

**General Chemistry Parameters by EPA / Standard Methods**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>SS-1 (6H31001-01) Soil</b>									
Chloride	29200	500	mg/kg	1000	EI60104	08/31/06	09/01/06	EPA 300.0	
<b>SS-2 (6H31001-02) Soil</b>									
Chloride	9460	200	mg/kg	400	EI60104	08/31/06	09/01/06	EPA 300.0	
<b>SS-3 (6H31001-03) Soil</b>									
Chloride	15.4	5.00	mg/kg	10	EI60104	08/31/06	09/01/06	EPA 300.0	
<b>SS-4 (6H31001-04) Soil</b>									
Chloride	19000	200	mg/kg	400	EI60104	08/31/06	09/01/06	EPA 300.0	
<b>SS-5 (6H31001-05) Soil</b>									
Chloride	25.2	5.00	mg/kg	10	EI60104	08/31/06	09/01/06	EPA 300.0	
<b>SS-6 (6H31001-06) Soil</b>									
Chloride	87.0	5.00	mg/kg	10	EI60104	08/31/06	09/01/06	EPA 300.0	
<b>SS-7 (6H31001-07) Soil</b>									
Chloride	83.6	5.00	mg/kg	10	EI60104	08/31/06	09/01/06	EPA 300.0	
<b>SS-8 (6H31001-08) Soil</b>									
Chloride	288	10.0	mg/kg	20	EI60104	08/31/06	09/01/06	EPA 300.0	

Environmental Lab of Texas

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.*

Page 2 of 4

Ocotillo Environmental  
2125 French Dr.  
Hobbs NM, 88201

Project: Grizzell B #7  
Project Number: None Given  
Project Manager: Cindy Crain

Fax: (432) 367-6747

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
<b>Batch EI60104 - Water Extraction</b>									
<b>Blank (EI60104-BLK1)</b> Prepared: 08/31/06 Analyzed: 09/01/06									
Chloride	ND	0.500	mg/kg						
<b>LCS (EI60104-BS1)</b> Prepared: 08/31/06 Analyzed: 09/01/06									
Chloride	10.7	0.500	mg/kg	10.0		107 80-120			
<b>Calibration Check (EI60104-CCV1)</b> Prepared: 08/31/06 Analyzed: 09/01/06									
Chloride	10.7		mg/L	10.0		107 80-120			
<b>Duplicate (EI60104-DUP1)</b> Source: 6H31001-03 Prepared: 08/31/06 Analyzed: 09/01/06									
Chloride	15.7	5.00	mg/kg		15.4		1.93	20	
<b>Duplicate (EI60104-DUP2)</b> Source: 6H31001-08 Prepared: 08/31/06 Analyzed: 09/01/06									
Chloride	278	10.0	mg/kg		288		3.53	20	
<b>Matrix Spike (EI60104-MS1)</b> Source: 6H31001-03 Prepared: 08/31/06 Analyzed: 09/01/06									
Chloride	115	5.00	mg/kg	100	15.4	99.6 80-120			
<b>Matrix Spike (EI60104-MS2)</b> Source: 6H31001-08 Prepared: 08/31/06 Analyzed: 09/01/06									
Chloride	500	10.0	mg/kg	200	288	106 80-120			

Ocotillo Environmental  
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Hobbs NM, 88201

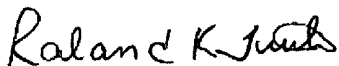
Project: Grizzell B #7  
Project Number: None Given  
Project Manager: Cindy Crain

Fax: (432) 367-6747

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference  
LCS Laboratory Control Spike  
MS Matrix Spike  
Dup Duplicate

Report Approved By:



Date:

9/5/2006

Raland K. Tuttle, Lab Manager  
Celey D. Keene, Lab Director, Org. Tech Director  
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director  
LaTasha Cornish, Chemist  
Sandra Sanchez, Lab Tech.

This 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 have received this material in error, please notify us immediately at 432-563-1800.

# Environmental Lab of Texas

## CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East  
Odessa, Texas 79765

Phone: 432-563-1800  
Fax: 432-563-1713

Project Manager: Cindy Crain

Company Name: Ocotillo Environmental

Company Address: 2125 French Drive, P.O. Box 1816

City/State/Zip: Hobbs, NM 88241

Telephone No: (505) 441-7244

Sampler Signature: Cassie Hobbs

Fax No: (432) 367-6747

e-mail: cindy.crain@gmail.com

Project Name: Grizzell B # 7

Project #:

Project Loc: Eunice, NM

PO #:

Report Format: ☐ Standard ☐ TRRP ☐ NPDES

(lab use only)

ORDER #: 67300

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	No. of Containers	Preservation & # of Containers										Matrix										Analyze For:										RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
							Ice	HNO <sub>3</sub>	HCl	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>5</sub>	None	Other (Specify)	DW - Drinking Water	SL - Sludge	GW - Groundwater	SS - Soil/Sediment	NP - Non-Portable	Specify Other	TPH	418.1	8015M	1005	1006	Calcium (Ca, Mg, Na, K)	Anions (Cl, SO <sub>4</sub> , CO <sub>3</sub> , HCO <sub>3</sub> )	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8060	RCI	N.O.R.M.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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Special Instructions:

Relinquished by:

Relinquished by:

Relinquished by:

Date:

Date:

Date:

Time:

Time:

Time:

Received by:

Received by:

Received by ELOT:

Date:

Date:

Date:

Time:

Time:

Time:

Laboratory Comments:

Sample Containers Intact?

VOCs Free of Headspace?

Custody seals on container(s)

Custody seals on cooler(s)

Sample Hand Delivered

by Sampler/Client Rep.?

by Courier?

Temperature Upon Receipt:

20.0 °C

Y

Y

Y

Y

Y

Y

Y

Y

Y

N

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

# Environmental Lab of Texas

## Variance/ Corrective Action Report- Sample Log-In

Client: Ocotillo Env.

Date/ Time: 8/31/06 8:15

Lab ID #: 6H31061

Initials: OL

### Sample Receipt Checklist

				Client Initials
#1	Temperature of container/ cooler?	Yes	No	20.0 °C
#2	Shipping container in good condition?	<u>Yes</u>	No	
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	<u>Not Present</u>
#4	Custody Seals intact on sample bottles/ container?	Yes	No	<u>Not Present</u>
#5	Chain of Custody present?	<u>Yes</u>	No	
#6	Sample instructions complete of Chain of Custody?	<u>Yes</u>	No	
#7	Chain of Custody signed when relinquished/ received?	<u>Yes</u>	No	
#8	Chain of Custody agrees with sample label(s)?	Yes	No	ID written on Cont. <u>Lid</u>
#9	Container label(s) legible and intact?	Yes	No	<u>Not Applicable</u>
#10	Sample matrix/ properties agree with Chain of Custody?	<u>Yes</u>	No	
#11	Containers supplied by ELOT?	<u>Yes</u>	No	
#12	Samples in proper container/ bottle?	<u>Yes</u>	No	See Below
#13	Samples properly preserved?	<u>Yes</u>	No	See Below
#14	Sample bottles intact?	<u>Yes</u>	No	
#15	Preservations documented on Chain of Custody?	<u>Yes</u>	No	
#16	Containers documented on Chain of Custody?	<u>Yes</u>	No	
#17	Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No	See Below
#18	All samples received within sufficient hold time?	<u>Yes</u>	No	See Below
#19	VOC samples have zero headspace?	Yes	No	<u>Not Applicable</u>

### Variance Documentation

Contact: \_\_\_\_\_ Contacted by: \_\_\_\_\_ Date/ Time: \_\_\_\_\_

Regarding: \_\_\_\_\_

Corrective Action Taken: \_\_\_\_\_

- Check all that Apply:
- ☐ See attached e-mail/ fax
  - ☐ Client understands and would like to proceed with analysis
  - ☐ Cooling process had begun shortly after sampling event