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

> 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

Form C-144

June 1, 2004

Pit or Be	low-Grade T	ank Registrat	ion or Closure	
			blan"? Yes \boxtimes No \square e of a pit or below-grade tank \boxtimes	
Type of action. Regist	ation of a pit of below	-grade talik 📋 Closur	e of a pit or below-grade tank	_
Dense Operating New Merrice, Inc.	Tataabaaa	(505) (21,002)		

Operator: Range Operating New Mexico, Inc Telepl	none. (505) 631-0926 e-mail address: sal	mager@rangeresources.com				
Address: P.O. Box 2510 Hobbs, NM 88241						
Facility or well name <u>Christmas 28 #2</u> API#. <u>30-025-38264</u>	U/L or Qtr/Qtr <u>UL-L</u> Sec <u>28</u> T	<u>22S</u> R <u>37E</u>				
County: Lea Latitude N 32° 36.224	.' Longitude <u>W 103° 17.591'</u>	NAD. 1927 ⊠ 1983 □				
Surface Owner: Federal 🗌 State 🗋 Private 🖾 Indian 🛄		NAD. 1927 ⊠ 1983 NAD. 1927 ⊠ 1983 12345678970 1001 № 1011 № <t< td=""></t<>				
<u>Pit</u>	Below-grade tank					
Type: Drilling 🛛 Production 🗌 Disposal 🗌	Volume:bbl Type of fluid	Et al				
Workover 🔲 Emergency 🗋	Construction material:	A DOVIC 120 C				
Lined 🖾 Unlined 🗔	Double-walled, with leak detection? Yes 🔲 If not,	explain whichot. Recents 5				
Liner type: Synthetic 🛛 Thickness <u>20</u> mil Clay 🔲		5 CO 6				
Pit Volumebbl		City of the				
Depth to ground water (vertical distance from bottom of pit to seasonal	Less than 50 feet	(20 points)				
high water elevation of ground water.)	50 feet or more, but less than 100 feet	(10 points) 63 feet				
ingli wale elevation of ground walet.)	100 feet or more	(0 points)				
Wellhead protection area: (Less than 200 feet from a private domestic	Yes	(20 points)				
water source, or less than 1000 feet from all other water sources.)	No	(0 points) X				
Distance to surface water: (horizontal distance to all wetlands, playas,	Less than 200 feet	(20 points)				
irrigation canals, ditches, and perennial and ephemeral watercourses.)	200 feet or more, but less than 1000 feet	(10 points)				
migation canais, diteres, and perchinal and epicmetal watercourses.)	1000 feet or more	(0 points) X				
	Ranking Score (Total Points)	10				

<u>If this is a pit closure:</u> (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 your are burying in place) onsite \square offsite \square 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 \square Yes \square 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. Drilling mud was mixed with caliche, and placed in the burial pit, along with the pit liner. The contents of the burial pit were completely encapsulated, capped with a 20 ml liner, and covered with 3 feet of topsoil to grade.

Soil samples were collected below the liner and the entire pit was excavated to a depth of 14 feet below ground surface. A 30 mil plastic liner was placed at the bottom of the

Excavation, and the pit was backfilled with clean soil and contoured to grade. The area will be re-seeded in the near future.

I hereby certify that the information above is true and complete to the best of i has been/will be constructed or closed according to NMOCD guidelines		
Date:October 2, 2007		
Printed Name/Title: Steve Almager, Production Supervisor	Signature	
Your certification and NMOCD approval of this application/closure does not a otherwise endanger public health or the environment. Nor does it relieve the or regulations.		
Approval: Printed Name/Title	Signature ENVIRONMENTAL ENGINEER	Date: 10.21.07
· · · · · · · · · · · · · · · · · · ·		





Range Operating, Christmas 28 #2, Proposal for pit backfill Inbox

☆ 📾 Cindy Crain to Larry,, Steve

Collapse all Print all
Forward all

show details Aug 21 Ø 😽 Reply

Dear Larry,

On behalf of Range Operating (Range), Ocotillo Environmental, LLC (Ocotillo) has been contacted to conduct the reserve drilling pit closure activities at the Christmas 28 #2 site.

The site is located in Unit Letter L, Section 28, Township 22 South, Range 37 East, Lea County, New Mexico.

A C144 form was approved by the OCD on 6/28/07 to deep bury the pit liner. Groundwater is at approximately 63 feet bgs.

On July 19, 2007, samples were collected below the liner and field tested. Field results reported chloride concentrations above 250 mg/kg. Excavation continued at the sample locations, until field tests reported chloride concentrations below 250 mg/kg. Those samples were submitted to Cardinal Laboratories in Hobbs, New Mexico for chloride analysis.

Results are as follows:

 SS-10 @ 17' bgs
 (Center)
 592 mg/kg

 SS-18 @ 30' bgs
 (NE Corner)
 3,119 mg/kg

 SS-20 @ 17' bgs
 (SE Corner)
 16 mg/kg

 SS-21 @ 12' bgs
 (SW Corner)
 384 mg/kg

 SS-23 @ 15' bgs
 (NW Corner)
 640 mg/kg

Following receipt of sample results, the entire pit was excavated to a depth of 14' bgs, and soil was hauled to an NMOCD disposal facility (Sundance).

On August 7, 2007, excavation continued at the Center, NE, SW and NW corners until samples were collected and submitted for laboratory analysis. Sample results are as follows:

SS-1 @ 35' bgs	(NE Corner)	1,580 mg/kg
SS-2 @ 20' bgs	(Center)	16 mg/kg
SS-3 @ 14' bgs	(SW Corner)	16 mg/kg
SS-4 @ 18' bgs	(NW Corner)	16 mg/kg

On August 20, 2007, excavation continued at the NE corner until a sample was collected at a depth of 36' bgs for laboratory analysis. Please note that extremely hard rock was encountered at a depth of approximately 35.5 feet bgs. The laboratory reported a result of 288 mg/kg chloride.

Attached please find a field drawing showing the sample locations, their depths, chloride concentrations, and the date they were collected.

Range proposes to install a 2' clay barrier at the currently excavated depth of 14' bgs. The clay will be compacted to at least 95% proctor density. The remainder of the excavation will be backfilled with clean soil, contoured to grade and re-seeded.

Ocotillo currently has equipment on location and would like to proceed with the pit closure as soon as possible. A complete report of the closure activites will be submitted with the final C144.

If you have any questions or need additional information, please either call me at (505) 441-7244 or email <u>Cindy.Crain@gmail.com</u>.

Thank you,

Cindy Crain Environmental Manager

Ocotillo Environmental 2125 French Drive Hobbs, NM 88240

Office (505) 393-6371 Cell (505) 441-7244 Fax (432) 272-0304

Field Drawing.doc 150K View as HTML Open as a Google document Download

<u>Reply</u> ≪ <u>Reply to all</u> → Forward

☆ "Johnson, Larry, EMNRD" to me, Steve

Closure approved as proposed. LJ

show details Aug 23 🥱 Reply

From: Cindy Crain [mailto:cindy.crain@gmail.com]
Sent: Tuesday, August 21, 2007 12:26 PM
To: Johnson, Larry, EMNRD
Cc: Steve Almager - Range
Subject: Range Operating, Christmas 28 #2, Proposal for pit backfill

- Show quoted text -

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Reply
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PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS. NM 88240

ANALYTICAL RESULTS FOR OCOTILLO ENVIRONMENTAL ATTN: CINDY CRAIN P.O. BOX 1816 HOBBS, NM 88240 FAX TO: (432) 272-0304

Receiving Date: 07/20/07 Reporting Date: 07/23/07 Project Number: 6-0146 Project Name: CHRISTMAS 28 #2 Project Location: LEA COUNTY, NM

Analysis Date: 07/23/07 Sampling Date: 07/19/07 & 07/20/07 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: HM

LAB NO. SAMPLE ID

(mg/Kg)

CI_

H12953-1 SS-10 @ 17'	592
H12953-2 SS-18 @ 30'	3119
H12953-3 SS-20 @ 17'	16
H12953-4 SS-21 @ 12'	384
H12953-5 SS-23 @ 15'	. 640
Quality Control	500
True Value QC	500
	500
% Recovery	100
Relative Percent Difference	2.0

METHOD: Standard Methods 4500-CI'B Note: Analyses performed on 1:4 w:v aqueous extracts.

Chémist

H12953 OCO

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

e ARDINAL LABORATORIES

Section 2	101 East Marland, Hobbs, NM 88					,														
	(505) 393-2326 FAX (505) 393-2476 (325) 673-7001					1 FA														
Company Name:	Ocotillo Environmente	1	6	LC					B	800	<u>.l to</u>	والمحادث			 4	<u>NA</u>	LYSI	S RE	QUE	ST
Project Manager	Cindy Crain						Р.О). #:												
Address: 21	25 French Dr. P.O.	Box	1	814			Cor	npa	iny:	l	cotillo									
City: Hob	65 State: NM	Zip	: E	382	40		Attr	n:			· · · · · · · · · · · · · · · · · · ·									
Phone #: 505	-441-7244 Fax #: 432	-2	72	2-10.	304		Ado	dres	ss:											
Project #: /p-	D 146 Project Owne	er: /	Ra	NSe			City	y:												
Project Name:	Christmas 28 # 2						Sta	te:			Zip:									
	: Lea County NM						Pho	one	#:											
	Steve Cannon						Fax #:							1					1	
FOR LAB USE ONLY		Τ			MATRI	X		PRE	SEF	ŧ٧.	SAMPLING		e.							
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ANALYTICAL RESULTS FOR OCOTILLO ENVIRONMENTAL, LLC ATTN: CINDY CRAIN P.O. BOX 1816 HOBBS, NM 88241 FAX TO: (432) 272-0304

Receiving Date: 08/07/07 Reporting Date: 08/07/07 Project Owner: RANGE Project Name: CHRISTMAS 28 #2 Project Location: LEA CO., NM Analysis Date: 08/07/07 Sampling Date: 08/07/07 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: LB Analyzed By: HM

CI⁻⁻ (mg/Kg)

LAB NO. SAMPLE ID

H13045-1	SS-1 @ 35'	1,580
H13045-2	SS-2 @ 20'	16
H13045-3	SS-3 @ 14'	16
H13045-4	SS-4 @ 18'	16
Quality Cont	rol	500
True Value (QC	500
% Recovery		100
Relative Per	cent Difference	<0.1

METHOD: Standard Methods4500-CI⁻BNote: Analyses performed on 1:4 w:v aqueous extracts.

28-07-07 Date

H13045 OCO

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Seardinal LABORATORIES

	101 East Marland, Hobbs, NM 882																			
Company Name	(505) 393-2326 FAX (505) 393-24 : Ocotillo Inc. ro emen				<u>- ۲АХ</u>	(3)		-7020 LL TO	<u>),</u>			 	ANALYSIS REQUEST							-
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City: Hobb		Zip:	88	3240		ttn:		<u> </u>												
Phone #: 505	5-441-7244 Fax #: 432	. 27:	2	0309	A	ddr	ess:													ľ
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ANALYTICAL RESULTS FOR OCOTILLO ENVIRONMENTAL, LLC ATTN: CINDY CRAIN P.O. BOX 1816 HOBBS, NM 88241 FAX TO: (432) 272-0304

Receiving Date: 08/21/07 Reporting Date: 08/21/07 Project Number: 6-0146 Project Name: CHRISTMAS 28 #2 Project Location: LEA COUNTY, NM

Analysis Date: 08/21/07 Sampling Date: 08/20/07 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: KS

LAB NO.	SAMPLE ID
LAD NO.	

CI (mg/Kg)

H13143-1 SS-1 @ 36'	288
Quality Control	500
True Value QC	500
% Recovery	100
Relative Percent Difference	2.0

METHOD: Standard	Methods	4500-CI ⁻ B					
Note: Analysis performed on a 1:4 w:v aqueous extract.							

re I. Moreno

08-21-07

Date

H13143 OCO

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(505) 393-2326 EAY (505) 393-2476	(325) 673-7001 FAX (325)673-7020

Company Name	: Oco-fills ENUIRONMENT	fal	20	1 C			BILL TO					ANALYSIS REQUEST												
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