District I 1625 N. French Dr., Hobbs, NM 88240 District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rto Brazos Rend. Aztec, NM 87410
District IV
1220 S St Feners Dr., Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

440

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 Senta Fe office

,	ide Tank Registration or Closur	E MAN IN DOOR
is pit or below-grade tan Type of action: Registration of a pit o	ik covered by a "general plan"? Yes No r below-grade tank Clasure of a pit or below-gra	igo tauk x Sales o beamannia
Operator Reef Exploration, Inc. Telephone (972) 437-6	7792 & (228) 216-7981 c-mail address: <u>Jays</u>	MODAKIESIA Mirreloge.com & Instarson@belisouth.net
Addicas. 1901 N. Central Expressway, Suite #300, Richardson, Texas	75080	
Facility or well name State 2, #5 API # .30-0	15-35677 U/L or Qtr/Qtr SE/SV	W Section 2 T 23 South; R 31 East
County: Eddy Latitude 32.328007	Longitude -103,749893	NAD 1927 🗆 1983 🗆
Surface Owner Federal State X Private Indian		
Pit	Below-grade tank	•
Type: Drilling X Production Disposal D	Volumebbl Type of fluid	
Workover	Construction material.	
Lined X Unlined	Double-walled, with lesk detection? Yes [] if not,	explain why not.
Liner type Synthotic X Thickness 12 mil Clay		
Pit Volume 2, 000 bbl (estimated)		
Depth to ground water (vertical distance from bottom of pit to seasonal	Loss than 50 feet	(20 points)
high water elevation of ground water.)	50 feet or more, but less than 100 feet	(10 points)
	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)
water sparred, or rest and the territories transfer sparreds y	-Less than 200 feet	(20
Distance to surface water: (horizontal distance to all wetlands, playes,	200 feet or more, but less than 1000 feet	(20 points)
irrigation canals, ditches, and perennial and ephomeral watercourses.)	1000 feet or more	(10 points)
	1000 test of worse	(0 points)
	Ranking Score (Total Points)	0 Points
If this is a pit closure: (1) Attach a diagram of the facility showing the pit? your are burying in place) ensite X offsite If offsite, dame of facility_ remediation start date and end date (4) Groundwater encountered. No X Y (5) Attach soil sample results and a diagram of sample locations and excava-	(3) Attach a general d	escription of remodual action taken including
Additional Comments. The attached schematic diagram illustrates the		G
•		
trenched buried A Post Closure Form C-144 will provide documenta	uon regarding the remedial actions taken and the el	ontermation sell analytical results
	· · · · · · · · · · · · · · · · · · ·	
	·	
I heroby certify that the information above is true and complete to the best has been/will be constructed or closed according to NMOCD guideline		
Date. March 14, 2008		The state of the s
Printed Name/Title Lars Larson, Geologist	Signature .	
Your certification and NIMOCD approval of this application/closure does not otherwise endanger middle health or the covingment. Mor does it mhove it	not relieve the operator of liability should the contents of he operator of its residualishibity for compliance, with an	of the pit or tank contaminate ground water or x other federal state be incal laws and/or
Approval:	Signature Signad By Mile Bonn	Date: MAR 2 4 2008
	reach is to be constructed a, samples are to be obtained	UPE REPORT

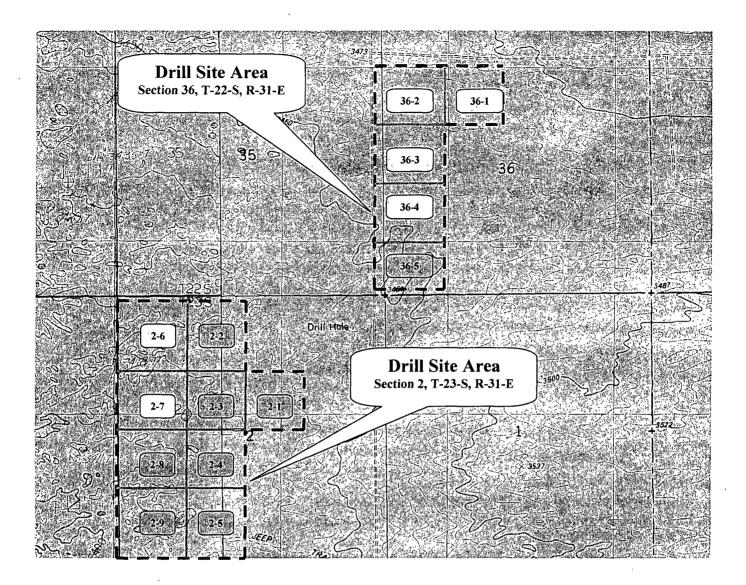
N to obtaining samples. Samples are to be obtained from pit area and analyses provided to OCD prior to backfilling pit.

PRIOR to lining trench.

FINAL CLOSURE REP

SEP 2 3 2008

Accepted for record NMOCD



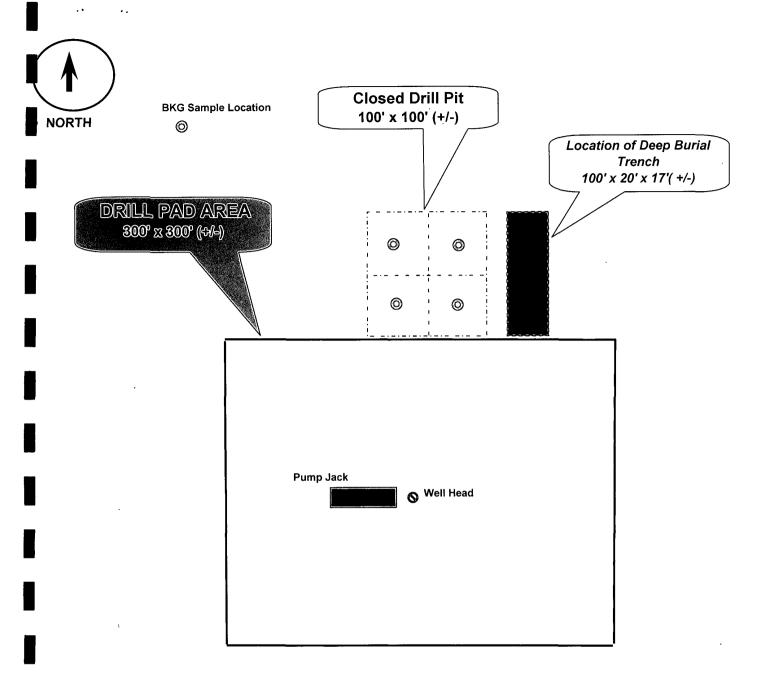


- Drilled locations with pits closed and sites restored under approved Form C-144's.

2-6

- Permitted locations, but "not" drilled. Pits closed and sites restored under approved Form C-103's.

Reef Exploration, L.P. Drill Site Location Map U.S.G.S. 7.5- Topographic Quadrangle Map Bootleg Ridge, New Mexico CAC Project # 15340.07



Note: Drawing is not to scale.

Pit Bottom Samples

REEF EXPLORATION, L.P.

Schematic Drawing of the State #2-5 Location Section 2 T-23-S, R-31-E Eddy County, New Mexico

State of New Mexico

Energy, Minerals and Natural Resources - Oil Conservation Division

Drilling Pit Closure Narratives for the Sand Dunes, New Mexico Project "Addendum to Approved Form C-144 – Reef Exploration, L.P."

Eddy County, New Mexico

Drill Site Location - State #2-5

- Form C-144 Drill Pit Closure Approval March 24, 2008. Subsequent activities included the dewatering of these pits and the appropriate management and disposal of the liquid waste.
- In mid June 2008, after NM One-Call had been alerted of the proposed drill pit closure operations, New Mexico Environmental Services (NMES), on behalf of Reef Exploration, LP (Reef) began mobilizing equipment and materials to this site to begin drill pit closure.
- Shortly thereafter, NMES began excavation of the deep burial trench at this location and the stabilization of the pit solid material. The attached site schematic diagram illustrates the location of the deep burial trench and pit in relation to the overall well pad.
- The deep burial trench was excavated to dimensions that were approximately 100-feet long, by 20 to 25-feet wide, by roughly 15-20-feet deep.
- Once the drill pit solids had been appropriately stabilized and the burial trench was lined with a 20-mil HDPD liner, the pit solids materials were transferred to the deep burial trench. This process continued until all of the pit solids and few feet of the native soils underlying the drill pit had been excavated.
- Once the drill pit had been appropriately cleaned out, confirmation samples were collected from the pit bottom to document the total chloride concentrations. Field testing of the native material underlying the drill pit were as follows:

STATE #2-5 – Field Chloride Test Results (concentrations expressed in ppm).

SE1/4	8'	600cl		
NE1/4	8'	-50cl		
NW1/4	8'	2500cl	12'	150cl
SW1/4	8'	2200cl	12'	350cl

- Mike Bratcher of the NM-OCD was contacted on 7/9/08 @ 1:30 pm. Mr. Bratcher advised NMES to place a 20 mil. HPDE liner over the entire western half of the drill pit bottom, then cover and backfill. The official laboratory analytical report sheets for soil samples obtained from the drill pit bottom are included herewith.
- The liner in the deep burial trench was then welded (sewn) and sealed. Approximately 4-feet backfill material was then placed on top of the trench. The whole area was shaped and leveled for adequate drainage. In late August 2008, this burial trench and drill pit area was tilled and seeded to re-establish natural grass and vegetative cover.



6701 Aberdeen Avenue, Suite 9'. 200 East Sunset-Road, Suite E 5002 Basin Street, Suite A1 .

Lubbock, Texas 79424 El Paso, Téxas 79922 Midland, Texas 79703

6015 Harris Parkway, Suite 110 Ft., Worth, Texas 76132

E-Mail: lab@traceanalysis com

806 • 794 • 1296

FÁX 806 • 794 • 1298 915 • 585 • 3443 FAX'915 • 585 • 4944 432 • 689 • 6301 FAX:432 • 689 • 6313

817 • 201 • 5260

NELAP Certifications

888 • 588 • 3443

Lubbock T104704219-08-TX

El Paso T104704221-08-TX

Midland T104704392-08-TX

Report Date: July 17, 2008

Work Order: 8071033

Analytical and Quality Control Report

Dusty Wilson New Mexico Environmental P.O. Box 310 Hobbs, NM, 88241

Project Location: SE/SW T23S, R31E Sec. 2

Project Name: Reef, State 2 #005 Project Number: API 30-015-35677

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

			Date	1 ime	Date
\mathbf{Sample}	Description	Matrix	Taken	Taken	Received
166348	#001 SE 1/4 8'	soil	2008-07-09	09:05	2008-07-10
166349	#002 NE 1/4 8'	soil	2008-07-09	09:15	2008-07-10
166350	#003 NW 1/4 8'	soil	2008-07-09	09:25	2008-07-10
166351	#004 SW 1/4 8'	soil	2008-07-09	09:40	2008-07-10
166352	#005 NW 1/4 12'	soil	2008-07-09	10:00	2008-07-10
166353	#006 SW 1/4 12'	soil	2008-07-09	10:20	2008-07-10
166354	#007 BG 50' S of SE	soil	2008-07-09	10:30	2008-07-10

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 7 pages and shall not be reproduced except in its entirety, without written approval of

TraceAnalysis, Inc.

Michael abel

Dr. Blair Leftwich, Director

Standard Flags

 ${f B}$ - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project Reef, State 2 #005 were received by TraceAnalysis, Inc. on 2008-07-10 and assigned to work order 8071033. Samples for work order 8071033 were received intact at a temperature of 3.4 deg. C.

Samples were analyzed for the following tests using their respective methods.

Test	Method
Chloride (Titration)	SM 4500-Cl B

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 8071033 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Report Date: July 17, 2008

API 30-015-35677

Work Order: 8071033 Reef, State 2 #005

Page Number: 4 of 7 SE/SW T23S, R31E Sec. 2

Analytical Report

Sample: 166348 - #001 SE 1/4 8'

Laboratory: Lubbock

Analysis: Chloride (Titration)

QC Batch: 50439

Date Analyzed:

Analytical Method:

SM 4500-Cl B

2008-07-16

Prep Method: N/A Analyzed By: SS SS

Prep Batch: 43292

Sample Preparation:

2008-07-16

Prepared By:

RL

Parameter Flag Result Units Dilution RLChloride 2410 mg/Kg $\overline{100}$ 3.25

Sample: 166349 - #002 NE 1/4 8'

Laboratory: Lubbock

Analysis: Chloride (Titration)

QC Batch: 50439 43292 Analytical Method:

SM 4500-Cl B 2008-07-16

Prep Method: N/A Analyzed By: SS

Prep Batch:

Date Analyzed: Sample Preparation:

2008-07-16

Prepared By:

RLDilution RLParameter Flag Result Units 3.25 Chloride <325 mg/Kg 100

Sample: 166350 - #003 NW 1/4 8'

Laboratory: Lubbock

Analysis: Chloride (Titration)

QC Batch: 50439 Analytical Method: Date Analyzed:

SM 4500-Cl B 2008-07-16

Prep Method: N/A SS

Prep Batch: 43292 Sample Preparation:

2008-07-16

Analyzed By: Prepared By:

RL

Parameter Flag Result Units Dilution RLChloride 4620 mg/Kg 100 3.25

Sample: 166351 - #004 SW 1/4 8'

Laboratory: Lubbock

Analysis: Chloride (Titration)

QC Batch: 50439 Prep Batch: 43292 Analytical Method: Date Analyzed:

SM 4500-Cl B 2008-07-16 Sample Preparation: 2008-07-16

Prep Method: N/A SS Analyzed By: Prepared By:

Report Date: July 17, 2008

API 30-015-35677

Work Order: 8071033 Reef, State 2 #005

Page Number: 5 of 7 SE/SW T23S, R31E Sec. 2

		RL			
Parameter	Flag	Result	Units	Dilution	RL
Chloride		3570	mg/Kg	100	3.25

Sample: 166352 - #005 NW 1/4 12'

Laboratory: Lubbock

Analysis:

QC Batch: 50439

Chloride (Titration)

Analytical Method:

SM 4500-Cl B

Prep Method: N/A

Date Analyzed: Sample Preparation: 2008-07-16 2008-07-16

Analyzed By: SS SS Prepared By:

Prep Batch: 43292

RL

Parameter	Flag	Result	Units	Dilution	RL
Chloride		< 325	mg/Kg	100	3.25

Sample: 166353 - #006 SW 1/4 12'

Laboratory: Lubbock

Analysis: Chloride (Titration)

QC Batch: 50439 Analytical Method: Date Analyzed:

SM 4500-Cl B 2008-07-16

Prep Method: N/A Analyzed By: SS

Prep Batch: 43292 Sample Preparation:

2008-07-16

Prepared By: SS

RL \mathbf{Result} Units Dilution RLParameter Flag Chloride 811 mg/Kg 100 3.25

Sample: 166354 - #007 BG 50' S of SE

Laboratory: Lubbock

Analysis: Chloride (Titration)

Chloride

QC Batch: 50439 Prep Batch: 43292 Analytical Method: Date Analyzed:

<32.5

SM 4500-Cl B 2008-07-16

Prep Method: N/A SS

Sample Preparation: 2008-07-16 Analyzed By: Prepared By: SS

Parameter Flag

RLDilution Result Units

mg/Kg

RL

10

3.25

Method Blank (1) QC Batch: 50439

QC Batch: 50439 Date Analyzed: 2008-07-16 43292 Prep Batch: QC Preparation: 2008-07-16

Analyzed By: SS Prepared By: SS Report Date: July 17, 2008

API 30-015-35677

Work Order: 8071033 Reef, State 2 #005 Page Number: 6 of 7 SE/SW T23S, R31E Sec. 2

		MDL		
Parameter	Flag	Result	Units	RL
Chloride		<1.80	mg/Kg	3.25

Laboratory Control Spike (LCS-1)

QC Batch: 50439 Prep Batch: 43292 Date Analyzed: 2008-07-16 QC Preparation: 2008-07-16 Analyzed By: SS Prepared By: SS

	LCS			$_{ m Spike}$	Matrix		Rec.
Param	Result	Units	Dil.	$\mathbf{A}\mathbf{mount}$	Result	Rec.	Limit
Chloride	102	mg/Kg	1	100	<1.80	102	96.8 - 103

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	LCSD			\mathbf{Spike}	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	101	mg/Kg	1	100	<1.80	` 101	96.8 - 103	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 167025

QC Batch: 50439 Prep Batch: 43292 Date Analyzed: 2008-07-16 QC Preparation: 2008-07-16 Analyzed By: SS Prepared By: SS

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit
Chloride	600	mg/Kg	10	500	<18.0	120	76.4 - 123

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

	MSD			$_{ m Spike}$	Matrix		Rec.		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	602	mg/Kg	10	500	<18.0	120	76.4 - 123	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1)

QC Batch: 50439

Date Analyzed: 2008-07-16

Analyzed By: SS

			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2008-07-16

Report Date: July 17, 2008 API 30-015-35677 Work Order: 8071033 Reef, State 2 #005 Page Number: 7 of 7 SE/SW T23S, R31E Sec. 2

Standard (CCV-1)

QC Batch: 50439

Date Analyzed: 2008-07-16

Analyzed By: SS

			CCVs	CCVs	CCVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		mg/Kg	100	100	100	85 - 115	2008-07-16





8071033

Page	-	of	
	100 March 1990 March 1		

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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8808 Camp Bowie Blvd West Suite 180
Ft. Worth, Texas 76116
Tel (817, 201-5260
Fax (817, 560-4336)

Company Name: New Mexico Environmenta/ Services (575) 342-8584 Address: (Street, City, Zip) Fax #:									ANALYSIS REQUEST (Circle or Specify Method No.)																					
10 Box 310 Hobbs NM 88240 (575) 392-3085 Contact Person: Dusty Wilson (575) 631-8154 dusty trails 73 Chotmail. Come Invoice to:									24	+ xt(C35)		6010B/200 7	Se Hg											n standard						
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COVINGTON AND ASSOCIATES CORP.

1636 Popps Ferry Road, Suite M-5 Biloxi, MS 39532 PHONE FAX 228-396-0486 228-396-0487

E-MAIL: larslarson@bellsouth.net

September 16, 2008

Mr. Mike Bratcher, Staff Geologist
New Mexico Energy, Minerals and Natural Resources Department
Oil Conservation Division – District 2
1301 West Grand Avenue
Artesia, New Mexico 88210

SEP 16 2008

OCD-ARTESIA

Re:

Final Pit Closure Reports

Reef Exploration, L.P. – Sand Dunes Drilling Project Section 2, T-23-S, R-31-E and Section 36, T-22-S, R-31-E

Eddy County, New Mexico CAC Project No. 15340.07

Dear Mike;

Enclosed please find closure information for the eight (8) drill pits that Reef Exploration, LP (Reef) has closed by the deep trench burial method in southeast Eddy County, New Mexico. The attached topographic map of the area illustrates the locations of these drill pits. Each of the drill pit closure packets in this submittal includes the following information:

- 1. Form C-144's photocopies of the approved Form C-114's for each drilling location.
- 2. Site Schematic Drawings these schematic drawings illustrates the locations of each drill pit and deep burial trench relative to the drill pad, as well as the locations of the confirmatory soil samples.
- 3. Pit Closure Narrative a brief explanation of the remedial actions that took place in association with each location drill pit, the field analytical testing that was conducted, and backfilling and site restoration completed.
- **4.** Laboratory Analytical Data –the laboratory analytical report sheets for the confirmation samples collected within each drill pit are also included.

We appreciate your assistance throughout this drill pit closure process. Once you have reviewed this information, please contact me if you have any questions.

Very truly yours,

Covington and Associates Corporation

Lars Larson, P.G. Senior Geologist

Cc:

Mr. Walt Dunagin

Reef Exploration, L.P.

Mr. Jay Degan

Reef Exploration, L.P.