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

Form C-144

June 1, 2004

Pit or Below-Grade Tank Registration or Closure

JUN 25 2008 Is pit or below-grade tank covered by a "general plan"? Yes Two Type of action: Registration of a pit or below-grade tank Closure of a pit or below-grade tank Operator: Encore Acquistion Co, Telephone: 432-362-2064 e-mail address: Crobert 60 encore acquior Address: 2626 JBS Farkury, Odessa Tx. 29762 Facility or well name: Encore 31 Avalon # 1 API #: 30-015-35714 U/L or Qtr/Qtr Sec 31 Surface Owner: Federal State Private Indian Pit Below-grade tank Type: Drilling Production Disposal Volume: ____bbl Type of fluid: Construction material: Double-walled, with leak detection? Yes If not, explain why not. Lined Unlined U Liner type: Synthetic Thickness ____mil Clay [Pit Volume Less than 50 feet stow o (20 points) Depth to ground water (vertical distance from bottom of pit to seasonal 50 feet or more, but less than 100 feet (10 points) high water elevation of ground water.) 100 feet or more (0 points) Yes (20 points) Wellhead protection area: (Less than 200 feet from a private domestic No (0 points) water source, or less than 1000 feet from all other water sources.) Less than 200 feet (20 points) Distance to surface water: (horizontal distance to all wetlands, playas, 200 feet or more, but less than 1000 feet (10 points) irrigation canals, ditches, and perennial and ephemeral watercourses.) 1000 feet or more (0 points) Ranking Score (Total Points) 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 . (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 []. 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.

Signature Accepted for record

NMOCD

Signed By Mile Bearing

Approval:

Printed Name/Title

& FINAL REPORT

District I
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District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

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

Pit or Below-Grade Tank Registration or Closure
Is pit or below-grade tank covered by a "general plan"? Yes No

APR - 1 2008

Form C-144

June 1, 2004

	a7x. 79762	fa
Facility or well name: Entere 31 Avalor API#:	30-016-36714 U/L or Qtr/Qtr	Sec 31 T 206 R 2
	e N32°32' O6.5" Longitude 104	1927 1983
Surface Owner: Federal State Private Indian		
Pit	Below-grade tank	
Type: Drilling Production □ Disposal □ Workover □ Emergency □	Volume:bbl Type of fluid:	
Lined Onlined	Construction material: Double-walled, with leak detection? Yes If	MARKANA
iner type: Synthetic Thickness 12 mil Clay	Bouble-wanted, with leak detection: Tes [] 11	i tot, explain why not.
Pit Volumebbl		
	Less than 50 feet	(20 points) 25 thurston
Depth to ground water (vertical distance from bottom of pit to seasonal	50 feet or more, but less than 100 feet	(10 points)
nigh water elevation of ground water.)	100 feet or more	(0 points)
	Yes	(20 points)
Wellhead protection area. (Less than 200 feet from a private domestic	(No	(0 points)
water source, or less than 1000 feet from all other water sources.)		-6-
Distance to surface water (horizontal distance to all wetlands, playas,	Less than 200 feet	(20 points)
rrigation canals, ditches, and perennial and ephemeral watercourses.)	200 feet or more, but less than 1000 feet	(10 points)
	1000 feet of more	(0 points)
this is a pit closure: (1) Attach a diagram of the facility showing the piur are burying in place) onsite offsite If offsite, name of facility	Ranking Score (Total Points) t's relationship to other equipment and tanks. (2) In	dicate disposal location: (check the onsite box
ur are burying in place) onsite offsite It offsite, name of facility nediation start date and end date. (4) Groundwater encountered. No Attach soil sample results and a diagram of sample locations and excavadditional Comments:	Ranking Score (Total Points) t's relationship to other equipment and tanks. (2) In (3) Attach a gener Yes If yes, show depth below ground surface_ rations.	dicate disposal location: (check the onsite box ral description of remedial action taken including the and attach sample results the control of the control
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are burying in place) onsite offsite It offsite, name of facility mediation start date and end date. (4) Groundwater encountered. No Attach soil sample results and a diagram of sample locations and excavadditional Comments: The third of the constructed or closed according to NMOCD guideling the third of the constructed or closed according to NMOCD guideling the third of the constructed or closed according to NMOCD guideling the constructed or clos	Ranking Score (Total Points) t's relationship to other equipment and tanks. (2) In (3) Attach a general permit (4) Attach	adicate disposal location: (check the onsite box ral description of remedial action taken including the and attach sample results to the control of the cont
are burying in place) onsite offsite It offsite, name of facility mediation start date and end date. (4) Groundwater encountered. No Attach soil sample results and a diagram of sample locations and excaval diditional Comments: The third of the constructed or closed according to NMOCD guideling.	Ranking Score (Total Points) t's relationship to other equipment and tanks. (2) In (3) Attach a general yes If yes, show depth below ground surface rations. Stof my knowledge and belief. I further certify the last Id., a general permit I, or an (attached) alternative stof my knowledge and belief. I further certify the last Id., a general permit I, or an (attached) alternative the operator of liability should the content of the last Id., a general permit II.	dicate disposal location: (check the onsite box ral description of remedial action taken including the and attach sample results the sample and taken action taken including the analysis of the pit or tank contaminate ground water the sample area.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 200 East Sunset Road, Suite E El Paso, Texas 79922 5002 Basin Street, Suite A1 Midland, Texas 79703 8808 Camp Bowie Blvd West, Suite 180 Ft Worth, Texas 76116

Lubbock, Texas 79424 800 • 378 • 1296 El Paso, Texas 79922 888 • 588 • 3443 Midland, Texas 79703 Ft Worth, Texas 76116 E-Mail lab@traceanalysis com Report Date: May 23, 2008

8052202

Work Order:

Analytical and Quality Control Report

Chris Busby SB Oil Field Serv. P.O. Box 1502 Carlsbad, NM, 88221-1502

Project Location: Sec. 31-T20S, R28E, Eddy Co., NM

Project Name: Encore 31 Avalon #1 Project Number: API 30-015-35714

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

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
160771	007 E Leg 12'	soil	2008-05-16	15:00	2008-05-21
160772	008 N Leg 15'	soil	2008-05-16	16:00	2008-05-21
160773	009 W Leg 15'	soil	2008-05-16	05:00	2008-05-21
160774	010 Inside Leg 12'	soil	2008-05-16	06:00	2008-05-21
160775	011 Inside Leg 12'	soil	2008-05-16	07:00	2008-05-21
160776	012 Background	soil	2008-05-16	07:30	2008-05-21

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 6 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Certifications

Lubbock - NELAP T104704219-08-TX El Paso - NELAP T104704221-08-TX

Standard Flags

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

Case Narrative

Samples for project Encore 31 Avalon #1 were received by TraceAnalysis, Inc. on 2008-05-21 and assigned to work order 8052202. Samples for work order 8052202 were received intact at a temperature of 3.6 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 8052202 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: May 23, 2008

API 30-015-35714

Work Order: 8052202 Encore 31 Avalon #1

Page Number: 3 of 6 Sec. 31-T20S, R28E, Eddy Co., NM

Analytical Report

Sample: 160771 - 007 E Leg 12'

Laboratory:

Lubbock

Analysis: Chloride (Titration)

QC Batch: 48723 Prep Batch: 41878 Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2008-05-23

2008-05-23

Prep Method: N/AAnalyzed By: RGPrepared By: RG

RL

Parameter Result Units Dilution RLFlag Chloride 96.3 3.25mg/Kg 10

Sample: 160772 - 008 N Leg 15'

Laboratory: Lubbock

Analysis: Chloride (Titration)

QC Batch: 48723 Prep Batch: 41878 Analytical Method: Date Analyzed:

SM 4500-Cl B 2008-05-23

N/APrep Method:

Sample Preparation: 2008-05-23

Analyzed By: RGPrepared By: RG

RL

Parameter Flag RLResult Units Dilution 285 3.25 Chloride mg/Kg $\overline{10}$

Sample: 160773 - 009 W Leg 15'

Laboratory:

Lubbock

Analysis: Chloride (Titration) QC Batch:

48723 Prep Batch: 41878

Analytical Method: Date Analyzed:

Sample Preparation:

SM 4500-Cl B 2008-05-23 2008-05-23

Prep Method: N/A RGAnalyzed By:

RG

Prepared By:

RL

RLParameter Flag Result Units Dilution 3.25 Chloride 114 mg/Kg 10

Sample Preparation:

Sample: 160774 - 010 Inside Leg 12'

Laboratory: Lubbock

Analysis: QC Batch: 48723 Prep Batch: 41878

Chloride (Titration) Analytical Method: Date Analyzed:

SM 4500-Cl B 2008-05-23 2008-05-23

Prep Method: N/AAnalyzed By: RGPrepared By: RG

 $continued \dots$

Report Date: May 23, 2008 API 30-015-35714

Work Order: 8052202

Encore 31 Avalon #1

Page Number: 4 of 6 Sec. 31-T20S, R28E, Eddy Co., NM

sample 160774 continued ...

Parameter	Flag	$rac{ ext{RL}}{ ext{Result}}$	Units	Dilution	m RL
Parameter	Flag	RL Result	Units	Dilution	RL
Chloride		106	mg/Kg	10	3.25

Sample: 160775 - 011 Inside Leg 12'

Laboratory: Lubbock

Analysis:

Chloride (Titration)

48723

Analytical Method:

SM 4500-Cl B 2008-05-23

Prep Method: N/A RGAnalyzed By:

QC Batch: Prep Batch: 41878 Date Analyzed: Sample Preparation:

2008-05-23

Prepared By: RG

RLParameter Result Dilution RLFlag Units 3.25Chloride $\overline{135}$ mg/Kg10

Sample: 160776 - 012 Background

Laboratory:

Lubbock

Analysis: Chloride (Titration) QC Batch: 48723

Analytical Method:

SM 4500-Cl B 2008-05-23

Prep Method: N/A RG

Prep Batch: 41878

Date Analyzed: Sample Preparation: 2008-05-23

Analyzed By: Prepared By: RG

RLParameter Flag Result Units Dilution RLChloride 52.0 mg/Kg 10 3.25

Method Blank (1)

QC Batch: 48723

QC Batch: 48723 Prep Batch: 41878

Date Analyzed: 2008-05-23 QC Preparation: 2008-05-23

Analyzed By: RG Prepared By: RG

		MDL		
Parameter	Flag	Result	${f Units}$	RL
Chloride		<1.80	mg/Kg	3.25

Report Date: May 23, 2008

API 30-015-35714

Work Order: 8052202 Encore 31 Avalon #1

Page Number: 5 of 6 Sec. 31-T20S, R28E, Eddy Co., NM

Laboratory Control Spike (LCS-1)

QC Batch: Prep Batch: 41878

48723

Date Analyzed:

2008-05-23

QC Preparation: 2008-05-23

Analyzed By: RG

Prepared By: RG

	LCS			Spike	Matrix		Rec.
Param	Result	${f Units}$	Dil.	Amount	Result	Rec.	Limit
Chloride	101	mg/Kg	1	100	<1.80	101	96.8 - 103

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

	LCSD			$_{ m Spike}$	Matrix		Rec .		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	102	mg/Kg	1	100	< 1.80	102	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: 160780

QC Batch: 48723

Date Analyzed:

2008-05-23

Analyzed By: RG

Prep Batch: 41878

QC Preparation: 2008-05-23

Prepared By: RG

	MS			Spike	Matrix		Rec.
Param	Result	Units	Dil.	Amount	Result	Rec.	\mathbf{Limit}
Chloride	593	mg/Kg	10	500	69.36	105	76.4 - 123

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

	MSD			\mathbf{Spike}	Matrix		${ m Rec.}$		RPD
Param	Result	Units	Dil.	Amount	Result	Rec.	Limit	RPD	Limit
Chloride	578	mg/Kg	10	500	69.36	102	76.4 - 123	3	20

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

Standard (ICV-1)

QC Batch: 48723

Date Analyzed: 2008-05-23

Analyzed By: RG

			ICVs	ICVs	ICVs	Percent	
			True	Found	Percent	Recovery	Date
Param	Flag	Units	Conc.	Conc.	Recovery	Limits	Analyzed
Chloride		${ m mg/Kg}$	100	98.6	99	85 - 115	2008-05-23

Standard (CCV-1)

QC Batch: 48723

Date Analyzed: 2008-05-23

Analyzed By: RG

Report Date: May 23, 2008

API 30-015-35714

Work Order: 8052202

Encore 31 Avalon #1

 $\begin{array}{c} {\rm Page\ Number:\ 6\ of\ 6} \\ {\rm Sec.\ 31\text{-}T20S,\ R28E,\ Eddy\ Co.,\ NM} \end{array}$

CCVsCCVsCCVsPercent True Found Percent Recovery Date Flag Param Units Conc. ${\rm Conc.}$ Recovery Limits Analyzed 85 - 115 Chloride mg/Kg 2008-05-23 100 101 101

Page	 of	
Page	 ot	

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue Suite 9 **Lubbock. Texas 79424** Tel (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296

5002 Basin Street, Suite A1 Midland, Texas 79703 Tel (432) 689-6301 Fax (432) 689-6313

200 East Sunset Rd Suite E El Paso. Texas 79922 Fel (915) 585-3443 Fax (915) 585-4944 Fax (817) 201-5260 Fax (817) 560-4336

Company Name: 2 CIFE	750	Pho	one #:	-5645	ANALYSIS REQUEST	
Aridress: (Street, City, Zip)	المصطن	NM 8XDE		Y-0171	(Circle or Specify Method No.)	
Contact Person:	212001	# -n	restriction	man co	# 1 624 1 624 2 624 3 624 4 624 624 624 624 624 625	fard
Invoice to:			respression	June 1		fan
(If different from above)					7 (624 6624 6624 19 (624 19 (6	S E
Project #: #30-015-35714		Pro EXX	pject Name: 2 # 3 A Color mpler Signature:	~#1		Turn Around Time if different from standard
Project Location (including state):	1 1 ^	Sar	npler Signature:	2.2	7 / 8260B 8260B / 1 / 1 / 100 70 / 1 / 1 / 100 70 / 1 / 1 / 100 824 83 C. G. G. G. 1 / 100 80 80	ffere
- 58631-7205-R288 Eq	JOH C	10.0.m.	PRESERVATIVE	DV1	902 1 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8	2
	RS	MATRIX	METHOD	SAMPLING	MTBE 8021B / 602 / 8260B BTEX 8021B / 602 / 8260B TPH 418.1 / TX1005 / TX1(TPH 8015 GRO / DRO / TX TO AN BESTOC / 625 Total Metals Ag As Ba Cd Cr Pt TCLP Metals Ag As Ba Cd Cr Pt TCLP Volatiles TCLP Volatiles TCLP Pesticides RCI GC/MS Vol 8260B / 624 GC/MS Sem. Vol 8270C / PCB's 8082 / 608 BOD, TSS. pH Moisture Content CL	Lime
LAB# FIELD CODE	# CONTAINERS Volume / Amount				MTBE 8021B / BTEX 801B /	ğ
/LAB USE	THE SH	[E]] [G]	50 E W	ш	M	Aro
(onry)	% Vol.	WATER SOIL AIR SLUDGE	HCI HRO. NaOH ICE NONE	DATE	MTBE 807 TPH 418.11 TPH 418.11 TPH 8015 G PAH 8270C Total Metals A TCLP Metals A TCLP Volatil TCLP Volatil TCLP Sem TCLP Sem TCLP Sem TCLP Sem TCLP Sem Mosture Co Mosture Co	Turn
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Submittal of samples constitutes agreement to Terr	ms and Cond	ditions listed on rev		pm	Carner # Carry In	

Encore 31 Avalon #1

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Ann - - - -

Bockground of the 5.w. Corner of pool 50' N83°82'05.0" W104°12'48.8"

E. 62-32°32'08.1" WICH 12'47.1" N. 62-N 32°32'07.8" WICH 12'47.9"

ω. 60. - N/ 32°32' 07.8" ω 104° 12' 48.2"

Inside W. 69. N-32°35' 07.9" W104°12' 47.8"

Inside E. leg N 32°32' 08.0" W104°12' 47.5"



ENCORE OPERATING, L.P. ENCORE 31 AVALON #1 600' FNL & 1260' FEL SEC. 31-T20S-R28E API #30-015-35714 EDDY COUNTY, NEW MEXAGE























