Encore 22 State Com #1

Located in SECTION 22, T17S, R34E of Lea County, NM

GPS Reading of 32°-49'-22"-N & 103°-32'-34"-W

API # 30-025-38304

Reserve Drilling Pit Closure Report RECEIVED

MAR 0 3 2009 HOBBSOCD

Presented to:

Encore Operating LP

777 Main St Suite 1400 Fort Worth, Texas 76105

C/O SB Oilfield Service 213 S Mesa Carlsbad, NM 88220

Prepared by:

Phoenix Environmental, LLC.

P.O. Box 1856 Hobbs, New Mexico 88240



TABLE OF CONTENTS

<u>Item</u>	Pages(s	<u>)</u>
Section	<u>I</u>	
	Regulatory Filing 1 C-144 1-5 W-1-1 Plane 6	
	Work Plan6-8	
Section	<u>II</u>	
	Project Overview9	
	Findings and Conclusions 9	
	Chronology of Operations	
	Certification	
<u>Section</u>	<u>III</u>	
	Lab Analysis 13-15	
	Analytical QC Summary Report13-14	
	Chain of Custody	
<u>Section</u>	<u>IV</u>	
	Site Maps/Drawings16-18	
	Site Map16	
	Regional TOPO Map17	
	Local TOPO Map	
<u>Section</u>	<u>V</u>	
	Pictorial Review19-20	

IMPORTANT NOTICE:

Phoenix Environmental, LLC., with offices at 2113 French Drive, Hobbs, New Mexico 88241 (the Company), has prepared this project report for remediation of Encore 22 State Com #1, to the best of its ability. No warranty, expressed or implied, is made or intended. The report was prepared for Encore Operating LP, with offices at 777 Main St Suite 1400, Fort Worth, Texas 76105, and (the Client). All information disclosed in this plan is for internal purposes only and is considered confidential. By accepting this document, the recipient agrees to keep confidential the information contained herein. The recipient further agrees not to copy, reproduce or distribute to any third party this project plan in whole or in part, without express written permission from the Company or Client.





SECTION I

<u>District I</u>
1625 N. French Dr., Hobbs, NM 88240
<u>District II</u>
1301 W Grand Avenue, Artesia, NM 88210
<u>District III</u>
1000 R10 Brazos Road, Aztec, NM 87410
<u>District IV</u>
1220 S St Francis Dr., Sanța Fe, NM 87505

1 1

State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.
For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

Pit, Closed-Loop System, Below-Grade Tank, or
Proposed Alternative Method Permit or Closure Plan Application

Type of action: Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method Modification to an existing permit closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinance
Operator Cocce Operation 19
Address: 277 main st suft 1400 fort world Tre 2/106
racinty of well name: Cococe and 36 Com #
API Number: 30 - 035 - 38304 OCD Permit Number:
U/L or Qtr/Qtr Section 22 Township 17 < Range 241 Court 100 0 = A/All
Center of Proposed Design: Latitude 3249 22" Longitude 1030 22' 34"
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
2.
Pit: Subsection F or G of 19.15.17.11 NMAC
Temporary: Drilling Workover
☐ Permanent ☐ Emergency ☐ Cavitation ☐ P&A
Lined Unlined Liner type: Thickness 12 mil LLDPE HDPE PVC Other
String-Reinforced
Liner Seams: Welded Factory Other Volume: 300bbl Dimensions: L 100 x W 100 x D 6
3.
Closed-loop System: Subsection H of 19.15.17.11 NMAC
Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other ☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other ☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other ☐ Lined ☐ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
Drying Pad

Part Carrier and Toronto

_	6.	
	Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet	', hospital,
	Alternate. Please specify	
	Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other	
	Monthly inspections (If netting or screening is not physically feasible)	
	Signs: Subsection C of 19.15.17.11 NMAC 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers	,
	Signed in compliance with 19.15.3.103 NMAC	
	Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for
	Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accematerial are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	opriate district
	Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No
	Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	Yes No
	Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to temporary, emergency, or cavitation pits and below-grade tanks) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
	Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	Yes No
	Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site	Yes No
	Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	☐ Yes ☑ No
	Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
	Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☑ No
	Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map	☐ Yes ☐ No
	Within a 100-year floodplain FEMA map	Yes No

attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 10.15.17.13 NMAC	Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC
	attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.0 NMAC
Previously Approved Design (attach copy of design) API Number: or Permit Number: or Permit Number:	Previously Approved Design (attach copy of design) API Number: or Permit Number: or Permit Number:
	Closed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph (3) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Previously Approved Design (attach copy of design) API Number:	
Previously Approved Operating and Maintenance Plan API Number:(Applies only to closed-loop system that use above ground steel tanks or haul-off bins and propose to implement waste removal for closure)	above ground steel tanks or haul-off bins and propose to implement waste removal for closure) (Applies only to closed-loop system that use
Permanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC	instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Climatological Factors Assessment Certified Engineering Design Plans - based upon the appropriate requirements of 19.15.17.11 NMAC Dike Protection and Structural Integrity Design - based upon the appropriate requirements of 19.15.17.11 NMAC Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) 15. Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC	Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Sype: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration) Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the Protocols and Procedures - based upon the appropriate requirements of 10.15.17.13 NMAC
Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings) Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

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Waste Removal Closure For Closed-loop Systems That Utilize Above (Instructions: Please indentify the facility or facilities for the disposal of facilities are required.	Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13 liquids, drilling fluids and drill cuttings. Use attachment i	B.D NMAC) f more than two	
Disposal Facility Name:	Disposal Facility Power's Novel		
Disposal Facility Name:	Disposal Facility Permit Number. Disposal Facility Permit Number:		
Will any of the proposed closed-loop system operations and associated acti ☐ Yes (If yes, please provide the information below) ☐ No	ivities occur on or in areas that will not be used for future se	rvice and operations	
Required for impacted areas which will not be used for future service and composition of Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subside Reclamation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate requirements of Site Reclamation Plan - based upon the appropriate r	propriate requirements of Subsection H of 19.15.17.13 NM/	NC	
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 N Instructions: Each siting criteria requires a demonstration of compliance provided below. Requests regarding changes to certain siting criteria may considered an exception which must be submitted to the Santa Fe Environ demonstrations of equivalency are required. Please refer to 19.15.17.10 N	e in the closure plan. Recommendations of acceptable son y require administrative approval from the appropriate dis		
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USC	GS; Data obtained from nearby wells	Yes No	
Ground water is between 50 and 100 feet below the bottom of the buried water - NM Office of the State Engineer - iWATERS database search; USC	aste.	Yes No	
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USC		Yes No	
Within 300 feet of a continuously flowing watercourse, or 200 feet of any or lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed:		Yes No	
Within 300 feet from a permanent residence, school, hospital, institution, or - Visual inspection (certification) of the proposed site; Aerial photo; S	church in existence at the time of initial application. Satellite image	☐ Yes ☐ No	
Within 500 horizontal feet of a private, domestic fresh water well or spring t watering purposes, or within 1000 horizontal feet of any other fresh water w - NM Office of the State Engineer - iWATERS database; Visual inspe	that less than five households use for domestic or stock	☐ Yes ☐ No	
Within incorporated municipal boundaries or within a defined municipal free adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written as	sh water well field covered under a municipal ordinance	☐ Yes ☐ No	
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map		☐ Yes ☐ No	
Within the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-I	-	☐ Yes ☐ No	
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of G Society; Topographic map	Geology & Mineral Resources; USGS; NM Geological	☐ Yes ☐ No	
Within a 100-year floodplain FEMA map		Yes No	
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each by a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requiremed Construction/Design Plan of Burial Trench (if applicable) based upon Construction/Design Plan of Temporary Pit (for in-place burial of a drefined Protocols and Procedures - based upon the appropriate requirements of Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Confirmation Sampling Plan - based upon the appropriate requirement Disposal Facility Name and Permit Number (for liquids, drilling fluids Soil Cover Design - based upon the appropriate requirements of Subsequence Re-vegetation Plan - based upon the appropriate requirements of Subsequence Site Reclamation Plan - based upon the appropriate requirements of Subsequence Site Reclamation Plan - based upon the appropriate requirements of Subsequence Site Reclamation Plan - based upon the appropriate requirements of Subsequence Site Reclamation Plan - based upon the appropriate requirements of Subsequence Site Reclamation Plan - based upon the appropriate requirements of Subsequence Site Reclamation Plan - based upon the appropriate requirements of Subsequence Site Reclamation Plan - based upon the appropriate requirements of Subsequence Site Reclamation Plan - based upon the appropriate requirements of Subsequence Site Reclamation Plan - based upon the appropriate requirements of Subsequence Site Reclamation Plan - based upon the appropriate requirements of Subsequence Site Reclamation Plan - based upon the appropriate requirements of Subsequence Site Reclamation Plan - based upon the appropriate requirements of Subsequence Site Reclamation Plan - based upon the appropriate requirements of Subsequence Site Reclamation Plan - based upon the appropriate requirements of Subsequence Site Reclamation Plan - based upon the appropriate requirements of Subsequence Site Reclamation Plan - based upon the appropriate re	the requirements of 19.15.17.10 NMAC ents of Subsection F of 19.15.17.13 NMAC the appropriate requirements of 19.15.17.11 NMAC ying pad) - based upon the appropriate requirements of 19.1 f 19.15.17.13 NMAC the requirements of Subsection F of 19.15.17.13 NMAC and drill cuttings or in case on-site closure standards cannot critically approximately appro	5.17.11 NMAC	

19.
Operator Application Certification:
I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print) Ronnie N. / Mukins Title: Agent
Signature. / Charles Date:
e-mail address:
OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)
OCD Representative Signature: Approval Date: 9, 23-08
Title:ENVIRONMENTAL ENGINEER OCD Permit Number:
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.
Closure Completion Date:
Closure Method: Waste Excavation and Removal On-Site Closure Method Alternative Closure Method Waste Removal (Closed-loop systems only) If different from approved plan, please explain.
23. Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more that two facilities were utilized.
Disposal Facility Name: Disposal Facility Permit Number:
Disposal Facility Name: Disposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on or in areas that will not be used for future service and operations? Yes (If yes, please demonstrate compliance to the items below) \(\subseteq \text{No} \)
Required for impacted areas which will not be used for future service and operations: Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique
24. Closure Report Attachment Checklist: Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation)
On-site Closure Location: Latitude Longitude NAD. 1927 1983
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.
Name (Print): Chuck Koberts Title: Production Foreman
Signature: Date: 2/24/09
e-mail address: Crobents a Encore acg. Com Telephone: 472-362-2209

170 11 6

September 17, 2008

Encore Operating LP 777 Main St., Suite 1400 Fort Worth, Texas 76105

Attn: Mr. Ronnie Hawkins

RE: Work Plan for the Encore 22 State Com #1 Drilling Pit Located in UL-H, Sec 22, T17S and R34E of Lea County, New Mexico API # 30-025-38304

Dear Mr. Hawkins:

SB Oilfield Services would like to take this time to thank you and Encore Operating LP, for the opportunity to provide our professional services. Please find attached our work plan for the above listed site.

If you have any questions and/or need more data in regards to projects please call at any time. My cell phone is 575-706-5645.

Sincerely,

Cris Busby Project Manager SB Oilfield Services

Summary/Overview

The Encore 22 State Com #1 drilling pit should be completed and remediated in accordance with the standards of the NMOCD. It is our understanding that any potential contamination from the site was a result of activities associated with the drilling and production of oil and gas.

The potential contaminates of concern are mid to high-level concentrations of drilling mud and cuttings that were left in the pit once drilling operations were completed.

The lands primary use is domestic pasture for ranching and the production of oil and gas.

The ground water depth data available for this area showed the depth to ground water to be in the 126' range BGS.

Pursuant to the standards of the NMOCD, the clean up level for this site will be at <2,500ppm of TPH, <50ppm for BTEX and Chlorides less than <1,000ppm.

The following scope of work was based on data from our site visit and the requirements of the NMOCD for site clean up following the new pit rule 19.15.17 NMAC that started on 6-16-08.

Scope of Work for Off-Site Disposal

NOTE: SB, for the purpose of this work plan, will estimate that there is approximately 3,000cyds of impacted soils at the site that needs to be addressed for site closure.

- SB will mobilize to the site located northwest of Carlsbad, NM equipment and personnel necessary to start and complete the site remediation as required, getting the site back into compliance with the requirements of subsection G of 19.15.17.13 NMAC.
- 2. At the site a staging area will be set up for site control and safety.

- 3. The impacted soils will be excavated, stabilized and loaded into trucks for off-site disposal.
- 4. Impacted soils at the site will then be transported to a NMOCD approved disposal facility for disposal (CRI Permit #R9166).
- 5. SB will field screen the site during the excavation, and, once the TPH BTEX and CL has dropped below clean-up requirements, final samples will be taken and sent to a third party lab for analysis and tested for BTEX 8021 B, TPH 418.1, TPH 8015 GRO/DRO and CL (chlorides) to meet the requirements of subsection D of 19.15.17.13 NMAC.
- 6. Once all of the remediation criteria have been met for site closure and compliance, the site will be backfilled with clean material from the site and contoured with a crown to prevent the ponding of water to meet the requirements of subsection H of 19.15.17.13 NMAC.
- 7. The site will be reseeded once backfilling operations have been completed to meet the requirements of subsection I of 19.15.17.13 NMAC
- 8. Once all of the closure criteria have been met, a final closure report will be prepared by SB. This report will include a summary of remediation operations, findings on-site and lab analysis, site maps and project photos to meet the requirements of subsection K of 19.15.17.13 NMAC.

If you have any questions and/or need more data in regards to this project please call 575-706-5645 at any time.

Sincerely,

Cris Busby Project Manager SB Oilfield Services



SECTION II

Project Overview

SB Oilfield Service. (SB) was contracted for the closure of a reserve-drilling pit on the Encore 22 State Com #1, belonging to Encore Operating LP. The Encore 22 State Com #1 is located in Section 22 T17S R34E. The GPS Reading is 32°49'22"N & 103°32'44"W, with an elevation of 4040 feet above sea level. The land, in and around the site, is primarily used as domestic pasture for ranching and the production of oil and gas. The pit site is located on the north side of the location.

The potential contaminates of concern were mid- to high-level concentrations of drill cuttings, and drilling fluids that were left after drilling operations were completed.

The ground water depth data available from the State of New Mexico Engineers' office showed the vertical depth to the top of water to be about 126 feet below surface.

Pursuant to the NMOCD guidelines for clean up of unlined surface impoundments, the clean up level for this site will be at <2,500 ppm for TPH (Total Petroleum Hydrocarbons) and <50 ppm for BTEX (Benzene, Toluene, Ethylbenzene, and Xylene). The NMOCD has also asked for CL (Chlorides) be returned back as close to background levels as possible or <1,000 ppm.

Findings and Conclusion

It appeared that in excess of 4140 cubic yards (cyds) of cuttings, drilling mud, and soil were impacted in the pit area with the dimensions of 120'x120'x6'. Impacted soils at the site were transported to a NMOCD approved disposal facility for disposal. (Sundance Permit # NM01-003)

The bottom of the excavation (approximately 10 feet) was tested for TPH, BTEX & Chlorides to make certain that the target limits had been met prior to backfilling and compaction for closure. The site cleaned up well with vertical depth of impact, listed above at 10 feet and not impacting groundwater. All of the final lab analyses were below the NMOCD guidelines for unlined surface impoundments (refer to attached laboratory reports for actual levels.)

The site was backfilled and compacted with clean backfill and contoured with a crown back to grade to prevent ponding on the area. The site was reseeded and should vegetate very well with upcoming rains.



Chronology of Operations

- 1. September 25, 2008 SB mobilized on-site. The first order on the agenda was a tailgate safety meeting to review any potential safety concerns of the site and to cover the clean- up operations. (Please note that a daily safety meeting is the first order of the day before any work begins on site). New Mexico One Call was notified of the intent to finish the pit closure.
- 2. September 26, 2008 Crew began excavating impacted soils from the reserve drill pit and loaded the soils into trucks. Trucks hauled 460 cubic yards of drill cuttings off site to CRI (Permit #R9166), a NMOCD disposal facility.
- 3. September 29, 2008— Crew continued to excavate impacted soils from the reserve drill pit and loaded into trucks. Trucks hauled 600 cubic yards of impacted soil off site for disposal.
- 4. September 30, 2008– Crew continued to excavate impacted soils from the reserve drill pit and loaded into trucks. Trucks hauled 420 cubic yards of impacted soil off site for disposal.
- 5. October 1, 2008 Crew continued to excavate impacted soils from the reserve drill pit and loaded into trucks. Trucks hauled 500 cubic yards of impacted soil off site for disposal.
- 6. October 2, 2008 Crew continued to excavate impacted soils from the reserve drill pit and loaded into trucks. Trucks hauled 780 cubic yards of impacted soil off site for disposal.
- 7. October 3, 2008 Crew continued to excavate impacted soils from the reserve drill pit and loaded into trucks. Trucks hauled 360 cubic yards of impacted soil off site for disposal.
- 8. October 6, 2008 Crew continued to excavate impacted soils from the reserve drill pit and loaded into trucks. Trucks hauled 840 cubic yards of impacted soil off site for disposal. Crew also hauled 440 cubic yards of caliche from CRI to location and stockpiled for further use on backfilling.
- 9. October 7, 2008 Crew continued to excavate impacted soils from the reserve drill pit and loaded into trucks. Trucks hauled 120 cubic yards of impacted soil off site for disposal. Crew also hauled 100 cubic yards of caliche from CRI to location and stockpiled for further use on backfilling.



- 10. October 9, 2008 Crew continued to excavate impacted soils from the reserve drill pit and loaded into trucks. Trucks hauled 60 cubic yards of impacted soil off site for disposal.
- 11. October 29, 2008 The bottom of the reserve drill pit was cleaned and final samples were taken and sent to a third party laboratory for analysis Chlorides for final verification of the limits met. (Please refer to attached reports, pages 13 through 15 of this report). Crew hauled 528 cubic yards of caliche, which was used for backfilling reserve drilling pit.
- 12. October 30, 2008 Crew hauled 576 cubic yards of caliche, which was used for backfilling reserve drilling pit.
- 13. October 31, 2008 Crew hauled 1512 cubic yards of caliche, which was used for backfilling reserve drilling pit.
- 14. November 12, 2008 Crew finished backfilling reserve drilling pit. Final contouring and compactions was implemented to return the site back to grade. Contouring was completed with a crown to prevent rainwater ponding.



Limitations

Phoenix Environmental LLC has prepared this report to the best of its ability. No other warranty expressed, implied or intended is made.

This report has been prepared for SB Oilfield Service our client. The information contained in this report including all exhibits and attachments, may not be used by any other party without the express consent from Phoenix Environmental LLC and/or the client.

Certification

The following Phoenix Environmental LLC personnel have reviewed this report and verify that to the best of their knowledge the contents are true and correct.

Name:

Allen Hodge JAM # 7096

Signature:

Title: VP Operations

Phoenix Environmental LLC





SECTION III

Report Date: October 24, 2008

API 30-025-38304

Work Order: 8102301 Encore 22 St. Com. #1 Page Number: 1 of 2 Sec. 22, T17S-R34E

Summary Report

Chris Busby SB Oil Field Serv. P.O. Box 1502

Carlsbad, NM, 88221-1502

Report Date: October 24, 2008

Work Order: 8102301

Project Location: Sec. 22, T17S-R34E Project Name: Encore 22 St. Com. #1 Project Number: API 30-025-38304

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
177123	1-Southeast 1/4 @ 10'	soil	2008-10-21	10:00	2008-10-22
177124	2-3Northeast 1/4 @ 10'	soil	2008-10-21	10:15	2008-10-22
177125	3-Center @ 10'	soil	2008-10-21	10:30	2008-10-22
177126	4-Northwest 1/4 @ 9'	soil	2008-10-21	10:45	2008-10-22
177127	5-Southwest 1/4 @ 12'	soil	2008-10-21	11:00	2008-10-22
177128	6-Background @ 0-6"	soil	2008-10-21	11:30	2008-10-22

	BTEX			MTBE	TPH 418.1	TPH DRO	TPH GRO
	Benzene Toluene Ethylbenzene Xylene			MTBE	TRPHC	DRO	GRO
Sample - Field Code	(mg/Kg) (mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
177123 - 1-Southeast 1/4 @ 10'	< 0.0100 < 0.0100	< 0.0100	< 0.0100		<10.0	< 50.0	<1.00
177124 - 2-3Northeast 1/4 @ 10'	< 0.0100 < 0.0100	< 0.0100	< 0.0100		<10.0	<50.0	<1.00
177125 - 3-Center @ 10'	< 0.0100 < 0.0100	< 0.0100	< 0.0100		<10.0	< 50.0	<1.00
177126 - 4-Northwest 1/4 @ 9'	<0.0100 <0.0100	< 0.0100	< 0.0100		<10.0	159	<1.00
177127 - 5-Southwest 1/4 @ 12'	< 0.0100 < 0.0100	< 0.0100	< 0.0100		<10.0	< 50.0	<1.00
177128 - 6-Background @ 0-6"	< 0.0100 < 0.0100	< 0.0100	< 0.0100		<10.0	< 50.0	<1.00

Sample: 177123 - 1-Southeast 1/4 @ 10'

Param	Flag `	Result	Units	RL
Chloride		42.1	ıng/Kg	3.25

Sample: 177124 - 2-3Northeast 1/4 @ 10'

Param	Flag	Result	Units	RL
Chloride		60.0	mg/Kg	3.25

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This is only a summary. Please, refer to the complete report package for quality control data.

Report Date: October 24, 2008 API 30-025-38304		Work Order: 8102301 Encore 22 St. Com. #1	4464-7-1	Page Number: 2 of 2 Sec. 22, T17S-R34E			
Sample: 177125 - 3-Center @ 10'							
Param	Flag	Result	Units	RL			
Chloride		62.0	mg/Kg	3.25			
Sample: 177126	- 4-Northwest 1/4 @	9'					
Param	Flag	Result	Units	RL			
Chloride		44.5	mg/Kg	3.25			
Sample: 177127	- 5-Southwest 1/4 @	12'					
Param	Flag	Result	Units	RL			
Chloride		238	${ m mg/Kg}$	3.25			
Sample: 177128	- 6-Background @ 0-6) "					

Result

<32.5

Units

mg/Kg

RL

3.25

Flag

Param

Chloride

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 Tel (915) 585-3443 Fax (915) 585-4944 1 (888) 588-3443

TraceAnalysis, Inc.

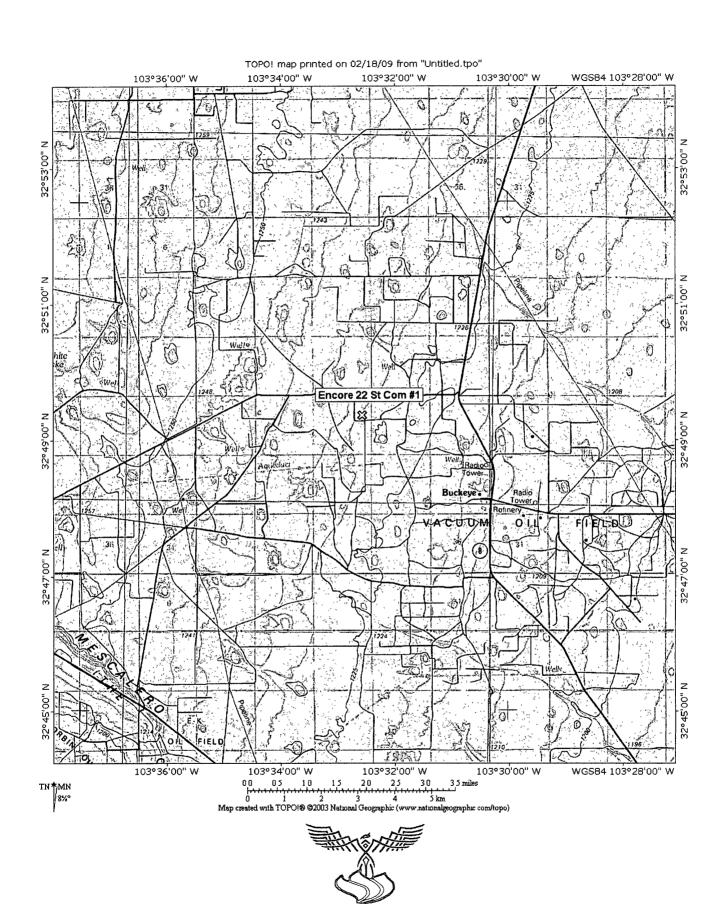
email: lab@traceanalysis.com

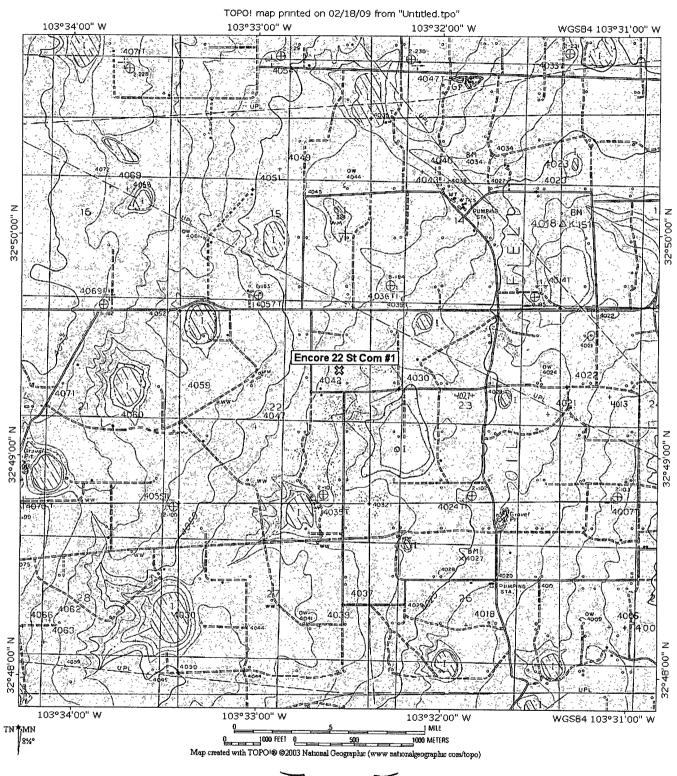
Company Name: S B DEL A		Phone	(575) 704	-5645	ANALYSIS REQUEST (Circle or Specify Method No.)
	1 bod 1	Proje	ct Name:	20 2001	2 / 8260B / 624 7 2 / 8260B / 624 3 8 Ba Cd Cr Pb Se Hg 6010B/200.7 As Ba Cd C
LAB # FIELD CODE (LAB USE) ONLY	# CONTAINERS Volume / Amount	WATER SÖIL AIR SLUDGE	HCI HNO ₃ H ₂ SO ₄ NONE	DATE	
179123 1- South EAST 4@ 10' 124 2-NORTH EAST 4@ 10' 125 3-66 NIZE @ 10' 126 4-NORTH WEST 4@ 09' 127 5-Sain WEST 4@ 12' 128 6-BACK GROON J @ 0-6"	i 42 i i i i	X X X X X X X X X X X X X X X X X X X	X	10:15	
			Company: Date:	Time: Te	emp°c: ARUSE REMARKS:
Relinquished by Company: Date: Relinquished by: Company: Date: Relinquished by: Company: Date:	Time: #15 22.05 Time:	Received by: Received by: Received by:	Company: Date:	Time: Te	emp°c: Intad(Y) N Headspace Y/ N NA TRRP Report Required Check If Special Reporting Limits Are Needed
Submittal of samples constitutes agreement to		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			Carrier # OCT 2 4 2008 E



SECTION IV

Encore Operating LP Encore 22 State Com #1 UL-L SEC-1 - T16S - R29E API # 30:-015 - 35933 N32° - 56' - 55.96" - W104° - 02' - 08.74" #2 0 Northwest Northeast Center Background Southwest Southeast 1. N32° 49' 23.7" - W103° 32' 35.4" 2. N32° 49' 24.5" – W103° 32' 35.6" 3. N32° 49' 24.1" - W103° 32' 36.1" 4. N32° 49' 24.4" – W103° 32' 36.3" Location 5. N32° 49' 23.6" – W103° 32' 36.7" 6. N32° 49' 24.2" - W103° 32' 33.2"









SECTION V

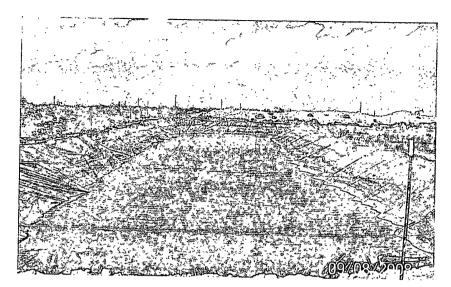


Photo #1 Beginning View

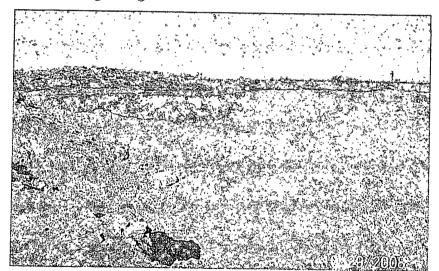


Photo #3 Clean Bottoms on Reserve Pit

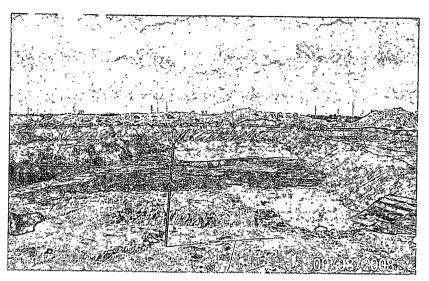


Photo #2 Beginning View

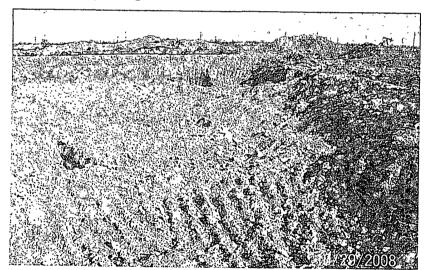


Photo #4 Clean Bottoms on Reserve Pit



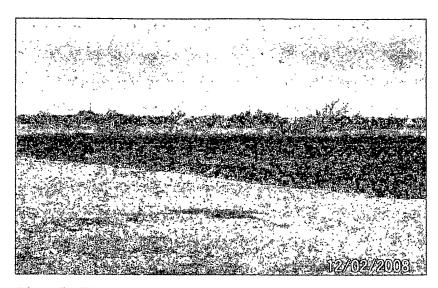




Photo #1 Final View

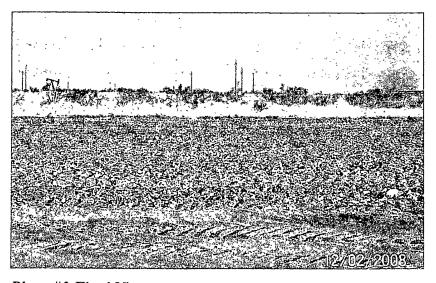


Photo #2 Final View

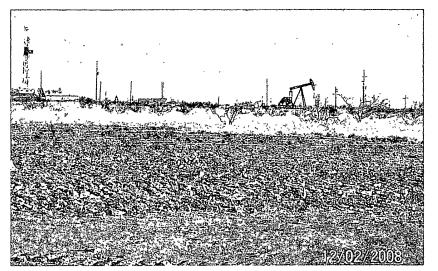


Photo #3 Final View

Photo #4 Final View

