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 Dn SanterFo, NM-87505 26 State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	Form C-144 July 21, 2008 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 7	
Proposed Alternative Method Permit or Closure P	lan Application
Type of action: Permit of a pit, closed-loop system, below-grade tank, o Closure of a pit, closed-loop system, below-grade tank, o Modification to an existing permit Closure plan only submitted for an existing permitted or	or proposed alternative method
below-grade tank, or proposed alternative method	
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop syste	m, below-grade tank, or alternative request
Please be advised that approval of this request does not relieve the operator of liability should operations result is environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable go	
Operator: Elm Ridge Exploration OGRID #	149052
Address:P.O. Box 156; Bloomfield, NM 87413	
Facility or well name: <u>Chacon Amigos 101</u>	
API Number: <u>3004320500</u> OCD Permit Number:	
U/L or Qtr/Qtr <u>L</u> Section <u>7</u> Township <u>22N</u> Range <u>2W</u> County:	Sandoval
Center of Proposed Design: Latitude <u>36.149106</u> Longitude <u>-107.096692</u> NAD: 1	927 🖂 1983
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: Thicknessmil LLDPE HDPE PVC Ot	her
String-Reinforced	
Liner Seams: 🗌 Welded 🗋 Factory 🗋 Other Volume:bbl	Dimensions: L x W x D
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 whit intent)	ich require prior approval of a permit or notice of
Drying Pad Above Ground Steel Tanks Haul-off Bins Other	
Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC] Other
Liner Seams: Welded Factory Other	
4.	
Below-grade tank: Subsection I of 19.15.17.11 NMAC	
Volume: <u>36</u> bbl Type of fluid: <u>Produced water</u>	
Tank Construction material: <u>Single-walled fiberglass tank</u>	
Secondary containment with leak detection 🗌 Visible sidewalls, liner, 6-inch lift and automatic ov	verflow shut-off
□ Visible sidewalls and liner ⊠ Visible sidewalls only ⊠ Other <u>Single-walled tank inside a larger</u>	single-walled tank
Liner type: Thicknessmil	
5.	
Alternative Method:	
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environme	ental Bureau office for consideration of approval.

1 6. Ĵ

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, hospital, institution or church)

Four foot height, four strands of barbed wire evenly spaced between one and four feet

Alternate. Please specify <u>4' tall hogwire fencing with pipe railing</u>

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)

8.

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 office for consideration of approval.

Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

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 accept material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appro office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a 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.	priate district pproval.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. The attached iWATERS database search shows a water well approximately 6.1 miles to the south-west with a depth to groundwater of 335 feet. This water well is at an elevation approximately 20 feet higher than the Chacon Amigos #101 well site, indicating that groundwater is greater than 50 feet from the bottom of the BGT at this site.	🗌 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). - The nearest watercourse is over 300 feet from the well site per the attached visual inspection sheet and topographic map.	🗋 Yes 🛛 No
Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. The attached aerial photograph and visual inspection sheet indicate that none of the above mentioned locations are within 1000 feet of the well site.	□ Yes⊠ No □ NA
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits)	□ Yes □ No ⊠ NA
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. The attached iWATERS database search and visual inspection sheet indicate that no water wells exist within 1000 feet of the well 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. The site is not within incorporated municipal boundaries per the attached topographic map and visual inspection sheet.	🗌 Yes 🛛 No
Within 500 feet of a wetland. The USFWS data file, WetlandsData.kmz, dated July 2, 2008 was opened using Google Earth. No electronic data was available; however, no wetland vegetation was noted during the site visit.	🗌 Yes 🛛 No
Within the area overlying a subsurface mine. The attached NM EMNRD web map indicates that the well site is not within an area overlying a subsurface mine.	🗌 Yes 🛛 No
Within an unstable area. The attached topographical map and visual inspection sheet indicate that the well site is not within an unstable area.	🗌 Yes 🛛 No
Within a 100-year floodplain. This area is outside the FEMA study area; however, the site is 54 ft. higher and 612 ft. from the nearest wash.	🗌 Yes 🛛 No

11. <u>Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist</u> : 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 (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 19.15.17.12 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: or Permit Number:
 12. <u>Closed-loop Systems Permit Application Attachment Checklist</u>: 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
 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:
above ground steel tanks or haul-off bins and propose to implement waste removal for closure) 13.
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.
<u>Proposed Closure</u> : 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 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.

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16. Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Stee Instructions: Please indentify the facility or facilities for the disposal of liquids, drill facilities are required.						
Disposal Facility Name: Dis	posal Facility Permit Number:					
Disposal Facility Name: Dis	posal Facility Permit Number:					
Will any of the proposed closed-loop system operations and associated activities occur Yes (If yes, please provide the information below) No	on or in areas that will not be used for future serv	rice and operations?				
 Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection I of Re-vegetation Plan - based upon the appropriate requirements of Subsection I of Site Reclamation Plan - based upon the appropriate requirements of Subsection I 	19.15.17.13 NMAC					
^{17.} Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the clos provided below. Requests regarding changes to certain siting criteria may require and considered an exception which must be submitted to the Santa Fe Environmental Bu demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for g	lministrative approval from the appropriate distr reau office for consideration of approval. Justij	ict office or may be				
Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data ob	tained from nearby wells	□ Yes □ No □ NA				
Ground water is between 50 and 100 feet below the bottom of the buried waste - NM Office of the State Engineer - iWATERS database search; USGS; Data ob	tained from nearby wells	□ Yes □ No □ NA				
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data ob	tained from nearby wells	□ Yes □ No □ NA				
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other signific lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	cant watercourse or lakebed, sinkhole, or playa	🗌 Yes 🗌 No				
Within 300 feet from a permanent residence, school, hospital, institution, or church in or - Visual inspection (certification) of the proposed site; Aerial photo; Satellite im		🗌 Yes 🗌 No				
Within 500 horizontal feet of a private, domestic fresh water well or spring that less that watering purposes, or within 1000 horizontal feet of any other fresh water well or spring - NM Office of the State Engineer - iWATERS database; Visual inspection (cert	g, in existence at the time of initial application.	🗋 Yes 🗋 No				
Within incorporated municipal boundaries or within a defined municipal fresh water w adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval of		🗌 Yes 🛄 No				
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual in	spection (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 & Society; Topographic map 	Mineral Resources; USGS; NM Geological	🗌 Yes 🗌 No				
Within a 100-year floodplain. - FEMA map		🗌 Yes 🗌 No				
 18. On-Site 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. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Protocols and Procedures - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC 						

cility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved) uspe Disposal racing runne and remit runnee (for inquite, annual runne and the composition 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

19. Operator Application Certification:	
I hereby certify that the information submitted with this application is true, accurate ar	nd complete to the best of my knowledge and belief.
Name (Print) Ms. Amy Mackey	Title: <u>Administrative Manager</u>
Signature: my acter	Date: 1-23-09
E-mail address: amackey1@elmridge.net	Telephone: <u>505-632-3476 ext 201</u>
20. OCD Approval: Permit Application (including closure plan) Closure Plan (or	only) OCD Conditions (see attachment)
OCD Representative Signature:	Approval Date:
Title: OC	D Permit Number:
^{21.} <u>Closure Report (required within 60 days of closure completion)</u> : Subsection K of <i>Instructions: Operators are required to obtain an approved closure plan prior to imp</i> <i>The closure report is required to be submitted to the division within 60 days of the co</i> <i>section of the form until an approved closure plan has been obtained and the closure</i>	plementing any closure activities and submitting the closure report. mpletion of the closure activities. Please do not complete this
	Closure Completion Date:
22. Closure Method: □ Waste Excavation and Removal □ On-Site Closure Method □ Alternative O □ If different from approved plan, please explain.	Closure Method 🗌 Waste Removal (Closed-loop systems only)
23. <u>Closure Report Regarding Waste Removal Closure For Closed-loop Systems That</u> <i>Instructions: Please indentify the facility or facilities for where the liquids, drilling f</i> <i>two facilities were utilized.</i>	fluids and drill cuttings were disposed. Use attachment if more than
	sposal Facility Permit Number:
	sposal Facility Permit Number:
Were the closed-loop system operations and associated activities performed on or in an Yes (If yes, please demonstrate compliance to the items below) No	eas that <i>will not</i> be used for future service and operations?
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 in 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 	nust be attached to the closure report. Please indicate, by a check
25. Operator Closure Cortification:	
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure report belief. I also certify that the closure complies with all applicable closure requirements	
Name (Print):	Title:
Signature:	Date:
E-mail address:	Telephone:

New Mexico Office of the State Engineer

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New Mexico	Office	of the	State	Engineer
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Back

										3=SW 4=SE smallest	
POD Number		Tws	-	Sec	-	-	-	Zone	2	K J	ζ
RG 73476		21N	02W	09	2	2	2				
Driller Licence:	225	RODGE	ERS &	CO.	.,	IN	IC.				
Driller Name:										Source	Shallow
Drill Start Date:	08/11	L/1997	7					Dri	ll Fir	nish Date:	08/18/1997
Log File Date:	11/18	3/1997	7					PCW	Recei	ived Date:	
Pump Type:								Pipe 1	Discha	arge Size:	
Casing Size:	4.5							E	stimat	ted Yield:	40
Depth Well:	680								Dep	oth Water:	335
Water Bearing Stratifications: Top 480					1	Bottom 680		Descrip Other/U			
Casing	Perfo	oratio	ons:		1 80		1	680			

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New Mexico Office of the State Engineer POD Reports and Downloads

- - - - - ---Township: 22N Range: 02W Sections: 7

NAD27 X: Y: Zone Search Radius:

County: Basin: Number: Suffix:

Owner Name: (First) (Last) "Non-Domestic Domestic All

POD / Surface Data Report | Avg Depth to Water Report | Water Column Report ;

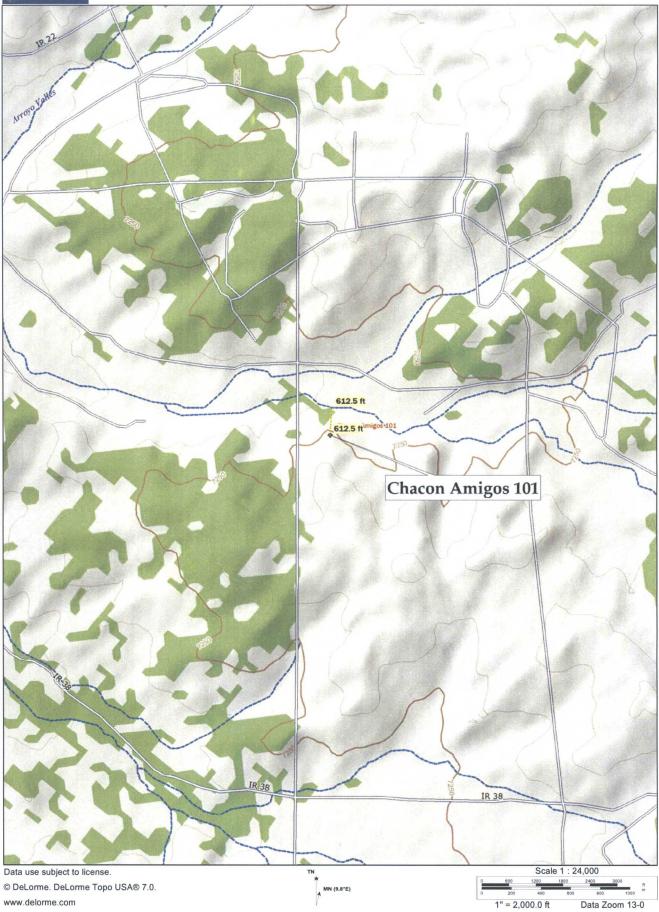
Clear Form WATERS Menu Help

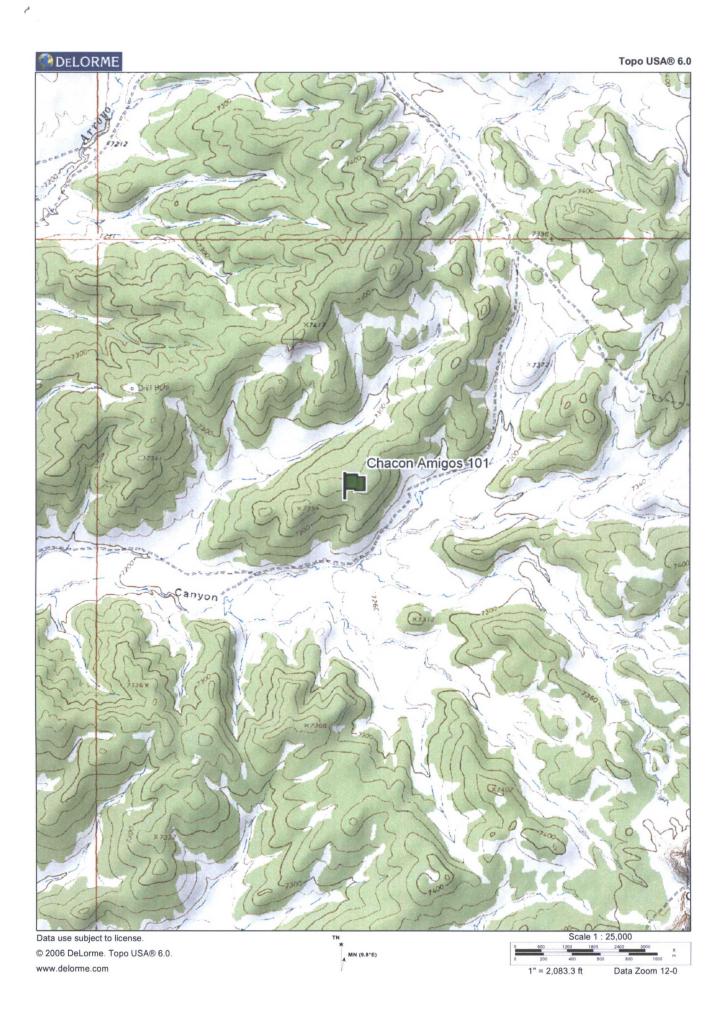
• •• • • · · · · ----POD / SURFACE DATA REPORT 10/30/2008

(quarters are 1=577 7=52 3=537 4=523) (quarters are biggent to mailest X T are in Feet UDM are in Meters) Start Source Two Reg Sec Q q Q Loce X T UDM_Loce Masting Northing Date **Finish** Date Depth Depth (in feet) Well Water (acre ft per annum) DS File Mor Une Diversion Ow POD Musbez No Records found, try again



DeLorme Topo USA® 7.0





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Elm Ridge Exploration Mine Map





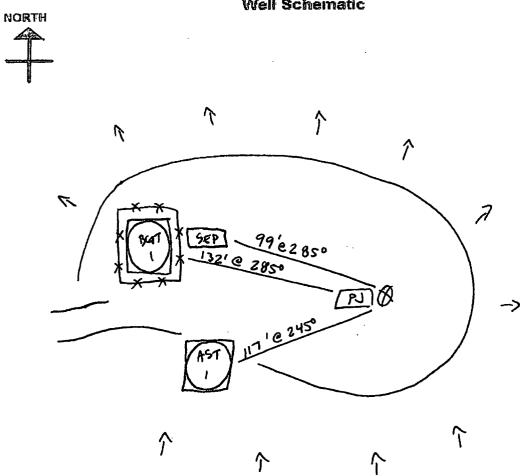




Elm Ridge Site Inventory Sheet
• Date: <u>9-3-08</u> Initials: <u>JN</u> Time: Started: <u>2:15PM</u> Ended: <u>2:35PM</u>
• Well Name & Number: CHACON AMIGOS 101
• API#: 3004320500
• Lease #:
Quarter/Quarter: Section:7 Township:22_/ Range:2_/
• Lat: <u>N36.149106</u> ° Long: <u>W107.096692</u> ° GPS Point ID: <u>Ca-101</u>
Pit Tank #1: Manufacturer:
• Serial #: NA DOM: NA Size NA bbl
o If N/A – Dimensions: Diameter <u>B</u> Height <u>Y</u>
• Material: Steel Galvanized FiberglassX
Tank Configuration: Double Wall Single WallX (Buried or Exposed_X)
Visible Walls: Y_X_ N Leak Detection: Y N_X_
Contents: Produced Water X Condensate Recycled Oil NOT LABEL X
 Tank Top Covering: Solid/Cone-top Netting X_ (SolidFiber X)
Secondary Containment: Yes X No
 Fencing around berm: Yes X
 Fence Type: Cattle Panel Field Fence_X Barbwire
Pit Tank #2: Manufacturer:
Serial #: DOM: Sizebbl
 If N/A – Dimensions: Dlameter Height
Material: Steel Galvanized Fiberglass
Tank Configuration: Double Wall Single Wall(Buried or Exposed)
Visible Walls: Y N Leak Detection: Y N
Contents: Produced Water Condensate Recycled Oil
Tank Top Covering: Solid/Cone-top Netting (SolidFiber)
Secondary Containment: Yes No
Fencing around berm: Yes No
• Fence Type: Cattle Panel Field Fence Barbwire
• Above-Ground Tank #1: Manufacturer: AMERICAN TANK & STEEL
• Serial #: <u>7932</u> DOM: <u>980</u> Size <u>400</u> bbl
o If N/A – Dimensions: Dlameter <u>12</u> Height <u>26</u>
Material: Steel X Galvanized Fiberglass Fiberglass Conduction
Contents: Produced Water Condensate (State # 61-549) Recycled Oil X
• Secondary Containment: Yes <u>7</u> No

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SEP	Artificial Lift	AL	Condensate Tank				
COM	Meter Run	HETER RUN					
DEH	Well Head	O	Water Tank	WATER			
stance 1000ft	or less of the fo	llowing:					
 From wellhead to any continuous flowing or significant water course. 							
grade tanks to	any permaner	nt residence, scho	ol, church, hospital	, etc. <u>NA</u>			
	COM DEH stance 1000ft ad to any cont	COM Meter Run DEH Well Head stance 1000ft or less of the fo	COM Meter Run METER RUN DEH Well Head O stance 1000ft or less of the following: ad to any continuous flowing or significant was	COM Meter Rum METER RUM DEH Well Head Water Tank stance 1000ft or less of the following: 0			

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Well Schematic

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BELOW GRADE TANK (BGT) CLOSURE PLAN

SITE NAME:

CHACON AMIGOS #101 UNIT LETTER L, SECTION 07, TOWNSHIP 22N, RANGE 2W SANDOVAL COUNTY, NEW MEXICO LATITUDE 36.149106 LONGITUDE -107.096692

SUBMITTED TO:

MR. WAYNE PRICE NEW MEXICO OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DRIVE SANTA FE, NEW MEXICO 87505 (505) 476-3490

SUBMITTED BY:

MS. AMY MACKEY ELM RIDGE EXPLORATION P.O. BOX 156 BLOOMFIELD, NEW MEXICO 87413 (505) 632-3476 EXT. 201

JANUARY 2009

BELOW GRADE TANK (BGT) CLOSURE PLAN ELM RIDGE EXPLORATION CHACON AMIGOS #101 SANDOVAL COUNTY, NEW MEXICO

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TABLE OF CONTENTS

INTRODUCTION	1
SCOPE OF CLOSURE ACTIVITIES	1
REPORTING	3

Below Grade Tank (BGT) Closure Plan Elm Ridge Exploration Chacon Amigos #101 Page 1

INTRODUCTION

Elm Ridge Exploration would like to submit a closure plan for the below grade tank (BGT) at the Chacon Amigos #101 well site located in the NW ¼ SW ¼ of Section 7, Township 22N, Range 2W, Sandoval County, New Mexico. This closure plan has been prepared in conformance with the closure requirements of 19.15.17.13 NMAC.

SCOPE OF CLOSURE ACTIVITIES

The purpose of this closure plan is to provide the details of activities involved in the closure of the BGT at the Chacon Amigos #101 well site. The following scope of closure activities has been designed to meet this objective:

- Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will close all of the BGTs currently in service within the five (5) years allotted. Elm Ridge Exploration does not operate any BGTs which would qualify to be upgraded or retrofitted; as such they will be closing all their current BGTs and replacing them with above ground storage tanks.
- 2) Elm Ridge Exploration will close BGTs deemed to be an imminent danger to fresh water, public health, or the environment by an earlier date that the division requires as specified in Subsection A of 19.15.17.13 NMAC.
- 3) Elm Ridge Exploration will close any BGT which demonstrates a compromise of integrity before the five (5) years allotted by the division per Paragraph (6) of Subsection I of 19.15.17.11 NMAC.
- 4) Elm Ridge Exploration will close any BGT within 60 days of cessation of the BGTs operation per Subsection A of 19.15.17.13 NMAC.
- 5) No less than 72 hours and no greater than one (1) week prior to BGT removal Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will provide written notification to the appropriate division district office as well as a schedule of on-site activities, as in accordance with 19.15.17.13 Subsection J Paragraph (2) NMAC. Written notification will include the name of the well operator, the well's API number, the well's name and number, and the well's unit letter, section, township, and range.
- 6) No less than 24 hours and no greater than one (1) week prior to beginning BGT closure activities Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will provide written notification to the appropriate surface owner, as in accordance with 19.15.17.13 Subsection J Paragraph (1) NMAC. Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will notify the surface owner by certified mail, return receipt requested, that the operator plans to close a below-grade tank. The return receipt will be used to ensure that the surface owner has received written notification no less than 24 hours and no greater than one (1) week prior to the beginning of BGT closure activities. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records is sufficient to demonstrate compliance with this requirement. Closure activities that will take place on tribal land will have notifications sent by certified mail, return

Below Grade Tank (BGT) Closure Plan Elm Ridge Exploration Chacon Amigos #101 Page 2

receipt requested, to the appropriate tribal office. Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will notify the Bureau of Land Management (BLM) of closure activities for wells located on federal land per a Sundry Notice, as in accordance with 19.15.17.13 Subsection J Paragraph (1) NMAC. All notices will be sent in such a way that the surface owner received notice at least 24 hours prior to the beginning of closure activities.

- 7) Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will remove all liquids, and/or sludge, if applicable, prior to closure. Material will be disposed of at Envirotech's Landfarm #2, Permit # NM-01-0011, TNT Environmental Inc. Landfarm, Permit # NM-01-0008, Industrial Ecosystems Inc. (IEI) Landfarm, Permit # NM-01-0010B or Basin Disposal, Permit # NM-01-0005, depending on the consistence of the material removed, as in accordance with 19.15.17.13 Subsection E Paragraph (1) NMAC.
- 8) Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will remove all on-site equipment associated with this BGT that is no longer required for some other purpose, as in accordance with 19.15.17.13 Subsection E Paragraphs (3) NMAC.
- 9) If applicable, any liners or leak detection systems removed from a BGT closure will be cleaned off and disposed of at San Juan County Regional Landfill in accordance with Subparagraph (m) of Paragraph (1) of Subsection D of 19.15.9.712 NMAC.
- 10) Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will obtain prior approval from the OCD to dispose, recycle, reuse, or reclaim the BGT. Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will provide the OCD with documentation concerning the final disposition of the BGT with the closure report.
- 11) Once the BGT is removed a five (5)-point composite sample will be collected from directly below the tank or below the leak detection system if present. Grab samples will be collected from any area that are wet, discolored, or showing other evidence of a release. All samples being collected will be analyzed for benzene and total BTEX via USEPA Method 8021B, TPH via USEPA Method 418.1, and chlorides via USEPA 300.1, as in accordance with 19.15.17.13 Subsection E Paragraph (4) NMAC.
- 12) Depending on soil sample results the area will be either backfilled or the area will be excavated.
 - a. If soil samples do not exceed the regulatory standards of 0.2 mg/kg benzene, 50 mg/kg BTEX, 100 mg/kg TPH, and 250 mg/kg or background concentration of chlorides, as in accordance with 19.15.17.13 Subsection E Paragraph (4) NMAC.
 - i. Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, shall submit a Form C-141 with the laboratory results so that the division may review the results to determine if additional delineation is required in accordance with Paragraph (5) of Subsection E of 19.15.17.13 NMAC.
 - ii. Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will backfill the excavation or impacted area with non-waste containing, earthen material, in accordance with 19.15.17.13

Below Grade Tank (BGT) Closure Plan Elm Ridge Exploration Chacon Amigos #101 Page 3

Subsection E Paragraph (6) NMAC. A soil cover shall be installed for all backfilled excavations consisting of the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater in accordance with Subsections H of 19.15.17.13 NMAC. The operator shall construct the soil cover to the site's existing grade and prevent ponding of water and erosion of the cover material.

- iii. All areas of the well site that are no longer utilized on a day to day basis for the production of oil and/or gas, Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will substantially restore, re-contour, and re-vegetate the areas, in accordance with 19.15.17.13 Subsections G and I NMAC. The operator shall notify the division when it has been re-seeded and when it has achieved successful re-vegetation. For re-vegetation methods, please see attached re-vegetation plan.
- b. If soil samples exceed the regulatory standards stated above.
 - i. Elm Ridge Exploration will submit a Release Notification by Form C-141 with the appropriate analytical laboratory results to the appropriate division district office, in accordance with 19.15.17.13 Subsection E Paragraph (4) NMAC.
 - ii. In accordance with Paragraph (5) of Subsection E of 19.15.17.13 NMAC, once the operator or the OCD has determined that a release has occurred, Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will comply with rule 19.15.3.116 NMAC and 19.15.1.19 NMAC as appropriate.

REPORTING

Elm Ridge Exploration will submit a closure report within 60 days following the BGT closure. The closure report will consist of a form C-144 with all supporting data, and a form C-141 with all supporting data. The supporting data will include proof of closure notice to the surface owner and the OCD, confirmation sampling analytical results, a site diagram, soil backfilling and cover installation, re-vegetation rates, re-seeding techniques, and site reclamation photo documentation, if applicable, along with all other information related to the onsite activities.

We appreciate the opportunity to be of service. If you have any questions or require further information, please do not hesitate to contact our office at (505) 632-3476 Ext. 201.

Respectfully Submitted: Elm Ridge Exploration Amy Mackey

Elm Ridge Exploration

Elm Ridge Exploration

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Re-Seeding Techniques and Seed Mixture Ratios

These applied practices by Elm Ridge Exploration will at a minimum comply with the New Mexico Oil Conservation Divisions rule 19.15.17.13, Subsection I NMAC Elm Ridge Exploration has adopted these re-seeding application techniques, ratios, and mixtures as their standard operating procedures.

- 1. The first growing season after closure of a below grade tank or pit, all areas of the well site not utilized for the production of oil and/or gas on a daily basis will be re-seeded with the specified seed mixture.
- 2. The seed mixture used will be certified with no primary or secondary noxious weeds in seed mixtures. The seed labels from each bag shall be available for inspection while seed is being sown.
- 3. The operator shall accomplish seeding by drilling on the contour whenever practical or by other division-approved methods. The operator shall obtain vegetative cover that equals 70% of the native perennial vegetative cover (un-impacted by overgrazing, fire or other intrusion damaging to native vegetation) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. During the two growing seasons that prove viability, there shall be no artificial irrigation of the vegetation.
- 4. Hand seeding with hydro-mulch, excelsior netting, or mulch with netting is required on the cut/fill slopes. Mulch will be spread at a rate of 2,000-3,000 pounds per acre.
- 5. Compacted areas determined by visual inspection will be ripped to a depth of 12 inches below ground surface and disked to a depth of six (6) inches before seeding. Seeding shall be done with a disk type drill with two (2) boxes for various seed sizes. The drill rows shall be eight (8) to ten (10) inches apart. Seed shall be planted at no less than one-half (1/2) inch deep or more than one (1) inch deep. The seeder shall be followed with a drag, packer, or roller to ensure uniform coverage of the seed and adequate compaction. Drilling shall be done on the contour where possible, but not up and down the slope.
- 6. Where slopes are too steep for contour drilling a hand seeder shall be used. Seed shall be covered to the depth stated above by whatever means is practical. If the seed is unable to be covered by the means listed above, the prescribed seed mixture amount will be doubled.

7. Elm Ridge Exploration shall repeat seeding or planting until it successfully achieves the required vegetative cover of 70% of the native perennial vegetation cover.

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- 8. Upon abandonment of a well site, if the retention of the access road is not considered necessary for the management and multiple uses of the natural resources, or by the surface owner, it will be ripped a minimum of 12 inches in depth. After ripping, water bars will be installed. All ripped surfaces are to be protected from vehicular travel by construction of a dead end ditch and earthen barricade at the entrance to these ripped areas. Re-seeding of areas affected by the ditch and barriers will be re-seeded if necessary.
- 9. Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will inform the division once successful re-vegetation has occurred.

Elm Ridge Exploration

San Juan Basin

Below Grade Tank Maintenance and Operating Plan

In accordance with Rule 19.15.17 the following information describes the operation and maintenance of a Below Grade Tank (BGT) on Elm Ridge Exploration locations. This particular location does not meet the siting criteria to operate a BGT, and thus will be closing the BGT within five (5) years, or upon failure of integrity, and replacing it with an above ground storage tank.

GENERAL PLAN:

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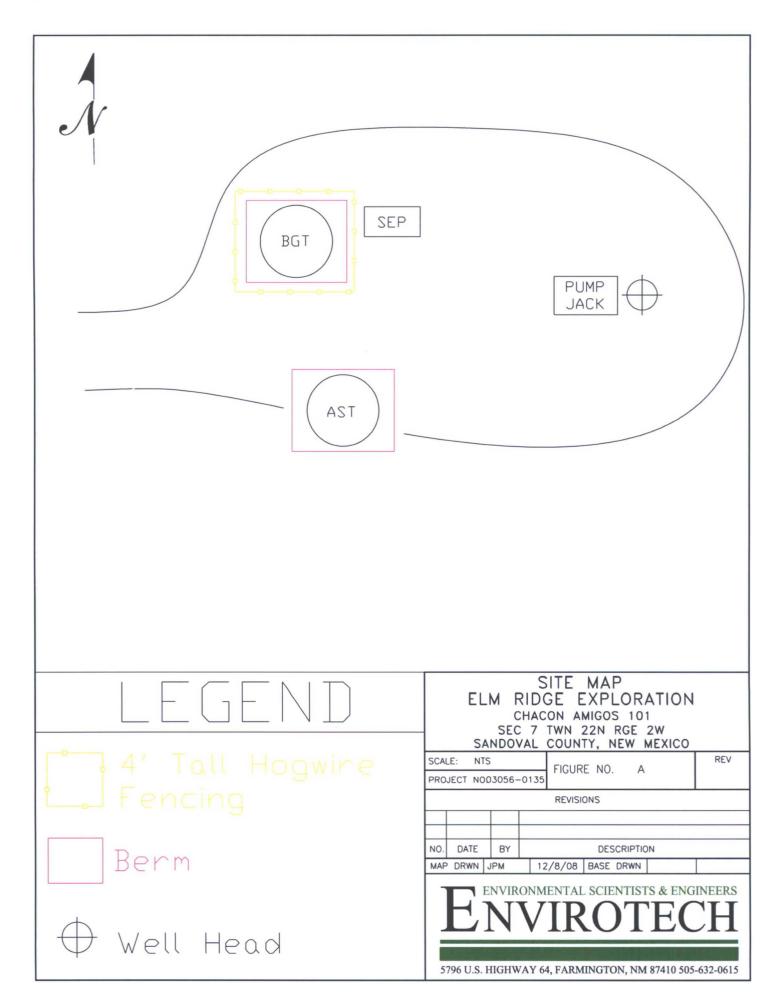
- 1. Elm Ridge Exploration, or a contractor representing Elm Ridge Exploration, will operate and maintain a BGT to contain liquids and solids to prevent contamination of fresh water and to protect public health and environment. This will be accomplished by performing monthly inspections of the BGT, any liners or leak detection, if applicable, netting, secondary containment, fencing, and maintaining adequate freeboard.
- 2. Elm Ridge Exploration, or a contractor representing Elm Ridge Exploration, shall not allow a BGT to overflow or allow surface water run-on to enter the BGT. This will be accomplished by a secondary containment consisting of a soil berm around the BGT that will be monitored by monthly inspections. Overflowing will be prevented by maintaining an adequate freeboard of eight (8) inches, maintained by monthly inspections. This process will be performed on the current BGT located at this well site.
- 3. Elm Ridge Exploration, or a contractor representing Elm Ridge Exploration, shall continuously remove any visible or measurable layer of oil from the fluid surface of a BGT in an effort to prevent the accumulation of oil over time.
- 4. Elm Ridge Exploration, or a contractor representing Elm Ridge Exploration, shall inspect the BGT at least once monthly and maintain a written record of each inspection for at least five (5) years. The monthly inspection form to be used by Elm Ridge Exploration is attached to this document.
- 5. Elm Ridge Exploration, or a contractor representing Elm Ridge Exploration, shall maintain adequate freeboard to prevent overtopping of the BGT. The standard freeboard to be maintained by Elm Ridge Exploration is eight (8) inches.
- 6. Elm Ridge Exploration, or a contractor representing Elm Ridge Exploration, shall maintain an expanded metal covering on the BGT.

- 7. Elm Ridge Exploration will not discharge into or store any hazardous wastes in the BGT.
- 8. If Elm Ridge Exploration, or a contractor representing Elm Ridge Exploration, determines that a BGT has developed a leak below the liquid's surface, then Elm Ridge Exploration, or a contractor representing Elm Ridge Exploration, will notify the appropriate division office within 48 hours of discovering the leak. Elm Ridge Exploration, or a contractor representing Elm Ridge Exploration, shall remove all liquids above the damage or leak line within 48 hours in accordance with Subsection A of 19.15.17.12 NMAC. The damaged tank will then be removed and closure activities will begin in accordance with the submitted closure plan.
- 9. Elm Ridge Exploration will close any BGT within 60 days of cessation of the BGTs operation per Subsection A of 19.15.17.13 NMAC.
- 10. Elm Ridge Exploration, or a contractor representing Elm Ridge Exploration, will close the BGT within the NMOCD allotted five (5) years, within 60 days of cessation of operation of the BGT or upon failure of integrity, and put into service an above ground storage tank to meet the needs previously fulfilled by the BGT.

Figure A, Site Map

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Attachment 1, Monthly BGT Inspection Form



Elm Ridge Exploration, LLC

Monthly Below Grade Ta	nk Inspection Form	
Inspection Performed By:	Date:	_
Well Site Name:		
Unit: Section: Township:	Range: County:	
Quarter Footage:	<u></u>	
Latitude: Long	gitude:	
Below Grade Tank		
Construction Material of BGT (circle one): Steel Fiberglass	s Galvanized Other:	
Tank Capacity (BBLS):		
Status of Tank (circle one): NA poor fair	good excellent	
Leaks Detected (circle one): Yes No U	Inknown	
Liquid level in tank from the top:	-	
Recent overflow detected (circle one): Yes No	Unknown	
BGT Cover present: Yes No NA		
Cover Type (circle one): wire mesh steel mesh	fibrous netting other:	
Berm Present (circle one): Yes No		
Secondary Containment		
Type of secondary containment:		
Status of secondary containment (circle one): NA po	oor fair good excellent	
Fencing		
Fencing Present (circle one): Yes No		
Describe Fencing:		
Status of Fencing (circle one): NA poor fair	good excellent	

*Maintain this document on record for a minimum of five (5) years from the date performed.

OCD Aztec District III ELM RIDGE Checklist Below Grade Tank Closure Plans

19.15.17.9 Permit application

Signed C-144 (Page 5 of C-144)

19.15.17.10 Siting requirements

Proximity to watercourses (Topo map)

Proximity to Permanent Structure (Aerial Map)

Proximity to Flood Plain Map (Aerial Map)

Proximity to Subsurface Mines Map (Aerial Map)

19.15.17.13 Closure Plan

Below Grade Tank Closure Plan

19.15.17.12 Operating and Maintenance Plan

D Below Grade Tank Operating and Maintenance Plan

Requirements: (Application Marked Closure Plan Only

5/18/18 Registration Date: __