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 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 ordinances.				
Operator: Elm Ridge Exploration LLC OGRID #: 149052				
Address. P.O. Box 156; Bloomfield, NM 87413				
Facility or well name: <u>Bryan Simpson 2 – Tank 2</u>				
API Number: 3004533174 OCD Permit Number Not Applicable				
U/L or Qtr/Qtr H Section 32 Township 25N Range 11W County: San Juan				
Center of Proposed Design: Latitude 36.360348 Longitude -108.020598 NAD. □1927 ☑ 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. Thickness mil LLDPE HDPE PVC Other				
□ 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 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: Thickness □ mil □ LLDPE □ HDPE □ PVC □ Other □ 13 □ 15 □ 15 □ 15 □ 15 □ 15 □ 15 □ 15				
Liner Seams: Welded Factory Other				
Liner Seams: Welded Factory Other  4.    Mark   Subsection   of 19 15 17 11 NMAC   Sub				
Below-grade tank: Subsection I of 19.15.17.11 NMAC				
Volume: 80 bbl Type of fluid: Produced water				
Tank Construction material: Steel tank with double-walled construction and fixed roof				
Wellow-grade tank: Subsection I of 19.15.17.11 NMAC  Volume: 80 bbl Type of fluid: Produced water  Tank Construction material: Steel tank with double-walled construction and fixed roof  Secondary containment with leak detection □ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off				
☐ Visible sidewalls and liner ☒ Visible sidewalls only ☐ Other				
Liner type: Thicknessmil				
5.				
Alternative Method:				

Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval

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: Four (4) foot hog wire fence with pipe top railing.				
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 off consideration of approval.  Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval	fice 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 acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.				
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.  - iWATERS database search revealed no records in this township. Previously submitted C-144 for this site, approved by the NMOCD September 20, 2007, indicates ground water is more than 100 feet below the bottom of the below-grade tank.	☐ Yes ☒ No ☐ 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).0.  The nearest watercourse is 436.1 ft south per attached topographic map  Within 300 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  The attached aerial illustrates a distance of approximately 1,300 feet to the north-south and 1,900 feet to the east-west	☐ Yes ☑ No ☐ NA			
From the well site.  Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  (Applies to permanent pits)  - Not Applicable	☐ 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  - Visual inspection and iWaters database search confirms the site is not within 1000 feet of any fresh water well or spring.	☐ 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.	☐ Yes ☑ No			
Within 500 feet of a wetland.  - The USFWS data file, WetlandsData.kmz, dated July 2, 2008, was opened using Google Earth. Electronic data was not available. Wetland-type vegetation was not noted during the site visit.	☐ Yes ☒ No ☐ Yes ☒ No			
Within the area overlying a subsurface mine.  - The NM EMNRD web map was reviewed. No mines are present.	☐ Yes ☑ No			
Within an unstable area.  - The attached topographical map indicates this site is not within an unstable area.	☐ Yes ☑ No			
Within a 100-year floodplain.				

Form C-144

Temporary Pits, Emergency Pits, and Below-grade Tanks 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.  ☐ 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
<ul> <li>✓ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15 17.12 NMAC</li> <li>✓ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC</li> <li>and 19.15.17.13 NMAC</li> </ul>
Previously Approved Design (attach copy of design) API 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)
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   Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC   Line 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 <sub>2</sub> S, Prevention Plan   Oil Field Waste Stream Characterization   Monitoring and Inspection Plan   Erosion Control 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)
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  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 G of 19.15.17.13 NMAC

1

Waste Removal Closure For Closed-loop Systems That Utilize Above Groun Instructions: Please indentify the facility or facilities for the disposal of liquids				
facilities are required.				
	posal Facility Name: Disposal Facility Permit Number:			
Disposal Facility Name:	Disposal Facility Permit Number.			
Will any of the proposed closed-loop system operations and associated activities  ☐ Yes (If yes, please provide the information below) ☐ No	occur on or in areas that will not be used for future serv	ice 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 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				
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC  Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.				
Ground water is less than 50 feet below the bottom of the buried waste.  - NM Office of the State Engineer - iWATERS database search; USGS; D	ata obtained 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; D	ata obtained 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; D	ata obtained from nearby wells	<ul><li>☐ Yes ☐ No</li><li>☐ NA</li></ul>		
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other s lake (measured from the ordinary high-water mark).  - Topographic map; Visual inspection (certification) of the proposed site	ignificant watercourse or lakebed, sinkhole, or playa	☐ Yes ☐ No		
Within 300 feet from a permanent residence, school, hospital, institution, or chur Visual inspection (certification) of the proposed site; Aerial photo; Satell	ch in existence at the time of initial application. ite image	☐ Yes ☐ No		
Within 500 horizontal feet of a private, domestic fresh water well or spring that lewatering purposes, or within 1000 horizontal feet of any other fresh water well of NM Office of the State Engineer - iWATERS database; Visual inspection	r spring, in existence at the time of initial application.	☐ Yes ☐ No		
Within incorporated municipal boundaries or within a defined municipal fresh ward adopted pursuant to NMSA 1978, Section 3-27-3, as amended  Written confirmation or verification from the municipality; Written appropriate		☐ Yes ☐ No		
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; Topographic map; Vis	sual 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-Mini	ng and Mineral Division	☐ Yes ☐ No		
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geold Society; Topographic map	ogy & 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 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 Subsection F 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 19.15.17.11 NMAC  Protocols and Procedures - based upon the appropriate requirements 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  Waste Material Sampling Plan - 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 or in case on-site closure standards cannot be achieved)  Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC  Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC				

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): Amy Mackey / Title: Production Technician					
Signature:					
e-mail address: amackey@elmridge.net Telephone: (505) 632-3476 ext. 201					
20. OCD Approval: Permit Application (including hosure plan)   OCD Conditions (see attachment)					
OCD Representative Signature: Approval Date: 3/26/2012					
Title: OM Jance Office OCD Permit Number:					
21.					
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.					
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 than 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)  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. <u>Closure Report Attachment Checklist</u> : <u>Instructions</u> : 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					
25. 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) Title:					
Signature: Date:					
e-mail address: Telephone					

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

For drilling and production facilities, submit to appropriate NMOCD District Office For downstream facilities, submit to Santa Fe office

Form C-144 June 1, 2004

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

I II OI BOIOW GIT	ade Tank Registration or Clos	<u>ure</u>			
	nk covered by a "general plan"? Yes 🗌 N				
Type of action Registration of a pit or below-grade tank Closure of a pit or below-grade tank X					
vi VigoratorELM RIDGE EXPLORATION CO LLCTelephone505-632-3476 v 201e-mail addressamackey1@elmridge net					
AddressPO BOX 156 Bloomfield, NM 87413					
Pacility or well nameBryan Simpson #2API #30					
County San Juan County Latitude	Longitude	NAD 1927 🗌 1983 🔲			
Surface Owner Federal X State Private Indian					
Bit	Below-grade tank				
Type Drilling XX Production Disposal Volume bbl Type of fluid					
Workover Emergency					
Trined 🔲 Unlined 🗎	Double-walled, with leak detection? Yes  If	not, explain why not			
finer type Synthetic Thicknessmil Clay					
Pit Volumebbl					
Expeth to ground water (vertical distance from bottom of pit to seasonal	Less than 50 feet	(20 points)			
high water elevation of ground water)	50 feet or more, but less than 100 feet	(10 points)			
High water elevation of ground water )	100 feet or more	( 0 points)X			
4	Yes	(20 points)			
Wellhead protection area (Less than 200 feet from a private domestic Water source, or less than 1000 feet from all other water sources)	No	( 0 points)X			
(vater source, or less than 1000 feet from all other water sources)					
Distance to surface water (horizontal distance to all wetlands, playas,	Less than 200 feet	(20 points)			
irrigation canals, ditches, and perennial and ephemeral watercourses)	200 feet or more, but less than 1000 feet	(10 points)			
. 44	1000 feet or more	( 0 points)X			
	Ranking Score (Total Points)	0 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) Inc	heate disposal location (check the onsite box if			
you'r are burying in place) onsite XX offsite  If offsite, name of facility					
ly.					
reniediation start date and end date (4) Groundwater encountered No XX Yes I If yes, show depth below ground surface ft and attach sample results					
(5) A transfer and a smalle results and a discrete of complete and concerns	ation n	(5) Attach soil sample results and a diagram of sample locations and excavations  RCVD AUG 30 '07  THE CHAIN DITE			
ردا	ations				
Additional Comments	ations	OIL CONS. DIV.			
ردا	ations				
We completed this work July 31, 2007	ations	OIL CONS. DIV.			
We completed this work July 31, 2007	ations	OIL CONS. DIV.			
Additional Comments  We completed this work July 31, 2007	ations	OIL CONS. DIV.			
We completed this work July 31, 2007	ations	OIL CONS. DIV.			
Additional Comments  We completed this work July 31, 2007		OIL CUNS. DIV.  DIST. 3			
We completed this work July 31, 2007	t of my knowledge and belief I further certify tha	OIL CUNS. DIV.  DISI. 3  It the above-described pit or below-grade tank			
Additional Comments  We completed this work July 31, 2007	t of my knowledge and belief I further certify tha	OIL CUNS. DIV.  DISI. 3  It the above-described pit or below-grade tank			
Additional Comments  We completed this work July 31, 2007	t of my knowledge and pelief I further certify that es X, a general permit □, or an (attached altern	OIL CUNS. DIV.  DISI. 3  It the above-described pit or below-grade tank			
Additional Comments  We completed this work July 31, 2007	t of my knowledge and belief I further certify that es X, a general permit , or an (attached altern	OIL CUNS. DIV.  DIST. 3  It the above-described pit or below-grade tank native OCD-approved plan			
Additional Comments  We completed this work July 31, 2007  Thereby certify that the information above is true and complete to the best has been/will be constructed or closed according to NMOCD guideling the manager of the provided that the information above is true and complete to the best has been/will be constructed or closed according to NMOCD guideling the manager of the manager of the provided that the information and NMOCD approval of this application/closure does otherwise endanger public health or the environment. Nor does it relieve	t of my knowledge and helief I further certify that es X, a general permit , or an (attached altern Signature	DIST. 3  It the above-described pit or below-grade tank native OCD-approved plan			
Additional Comments  We completed this work July 31, 2007	t of my knowledge and helief I further certify that es X, a general permit , or an (attached altern Signature	DIST. 3  It the above-described pit or below-grade tank native OCD-approved plan			
Additional Comments  We completed this work July 31, 2007	t of my knowledge and helief I further certify that es X, a general permit , or an (attached altern Signature	OIL CUNS. DIV.  DIST. 3  It the above-described pit or below-grade tank native OCD-approved plan  Ints of the pit or tank contaminate ground water or h any other federal, state, or local laws and/or			
Additional Comments  We completed this work July 31, 2007	t of my knowledge and helief I further certify that es X, a general permit , or an (attached altern Signature	DIST. 3  It the above-described pit or below-grade tank native OCD-approved plan			
Additional Comments  We completed this work July 31, 2007	t of my knowledge and helief I further certify that es X, a general permit , or an (attached altern Signature	OIL CUNS. DIV.  DIST. 3  It the above-described pit or below-grade tank native OCD-approved plan  Ints of the pit or tank contaminate ground water or h any other federal, state, or local laws and/or			
Additional Comments  We completed this work July 31, 2007	sof my knowledge and belief I further certify that es X, a general permit , or an (attached altern not relieve the operator of liability should the contest the operator of its responsibility for compliance with	DIST. 3  If the above-described pit or below-grade tank native OCD-approved plan			
Additional Comments  We completed this work July 31, 2007	sof my knowledge and belief I further certify that es X, a general permit , or an (attached altern not relieve the operator of liability should the contest the operator of its responsibility for compliance with	DIST. 3  If the above-described pit or below-grade tank native OCD-approved plan			
Additional Comments  We completed this work July 31, 2007	sof my knowledge and belief I further certify that es X, a general permit , or an (attached altern not relieve the operator of liability should the contest the operator of its responsibility for compliance with	DIST. 3  If the above-described pit or below-grade tank native OCD-approved plan			
Additional Comments  We completed this work July 31, 2007	sof my knowledge and belief I further certify that es X, a general permit , or an (attached altern not relieve the operator of liability should the contest the operator of its responsibility for compliance with	DIST. 3  If the above-described pit or below-grade tank native OCD-approved plan			

#### New Mexico Office of the State Engineer POD Reports and Downloads

Township 2511 Range. 11W Sections 32

NAD27 X

Y·

Zone:

Search Radius

County.

Basın

Number

Suffix

Owner Name: (First)

(Last)

Non-Domestic Domestic • All

Clear Form (WATERS Menu Help

POD / SURFACE DATA REPORT 09/01/2008

(acre ft per annum) Use Diversion Owner

PCD Number

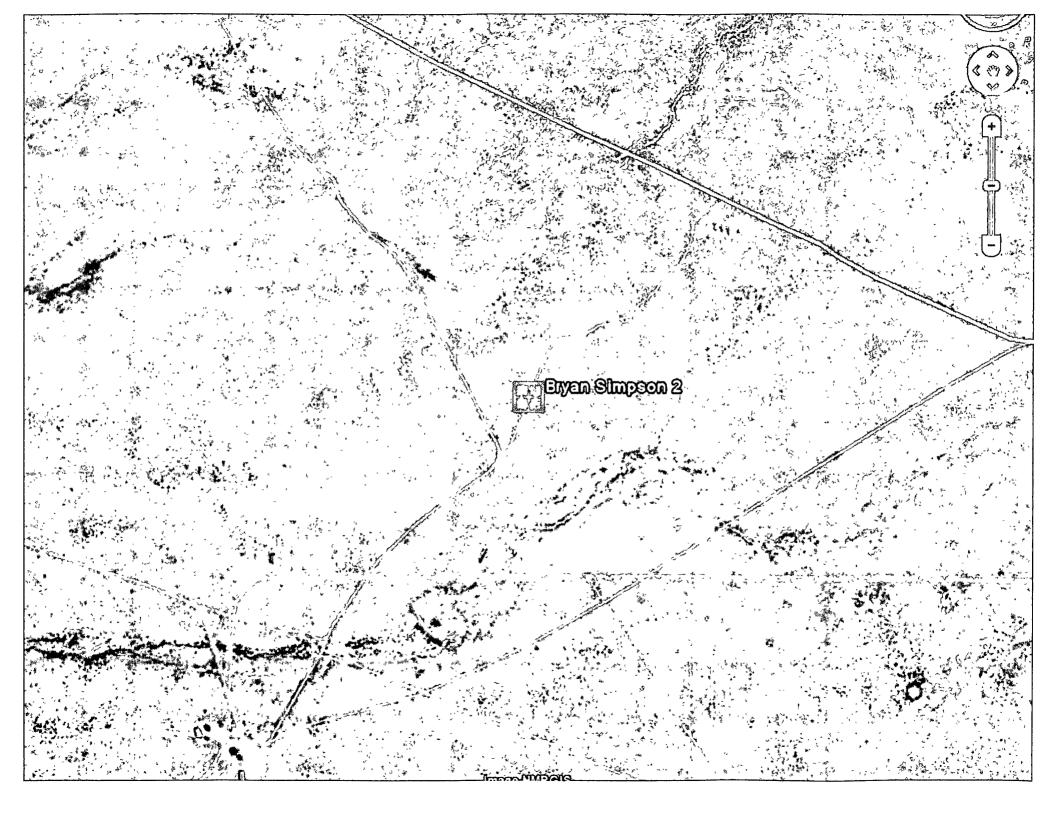
(quarters are 1=BM 2=BE 3=SW 4=SE) (quarters are biggest to smallest X Y are in Feet Source Tws Rng Sec q q q Ione X

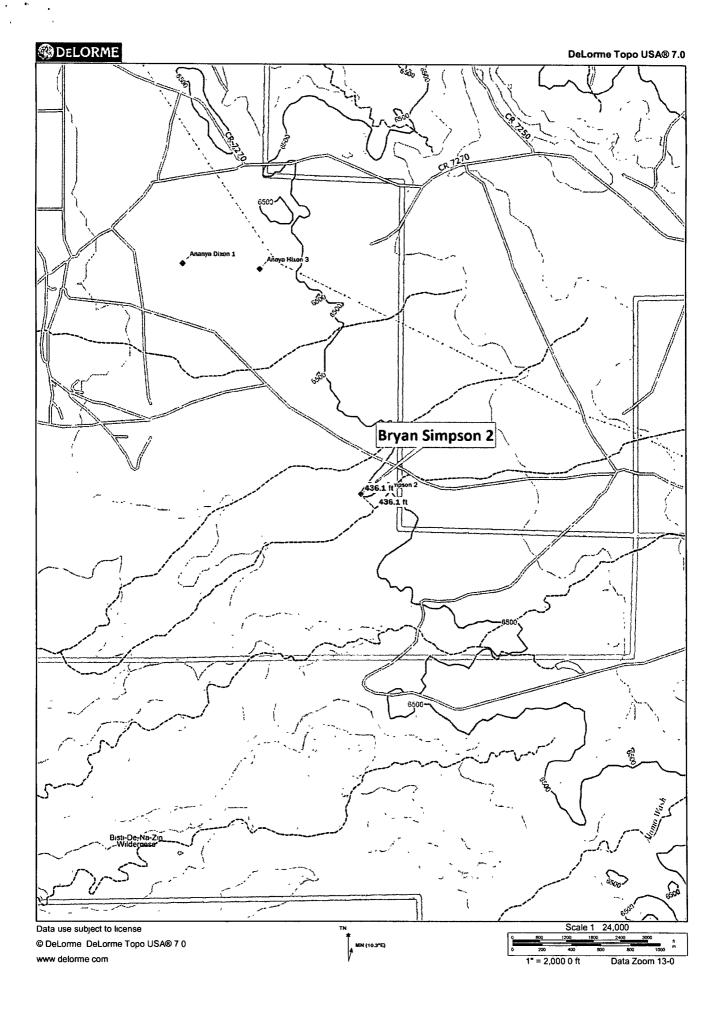
UTM\_Zone Easting Sorthing Date

Date

Depth Depth (in feet) Well Water

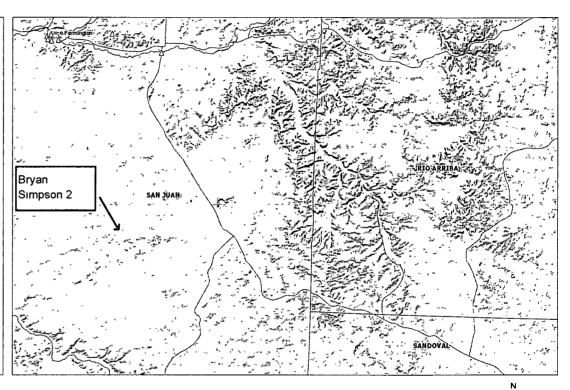
No Records found, try again

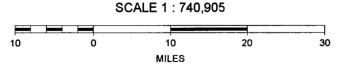




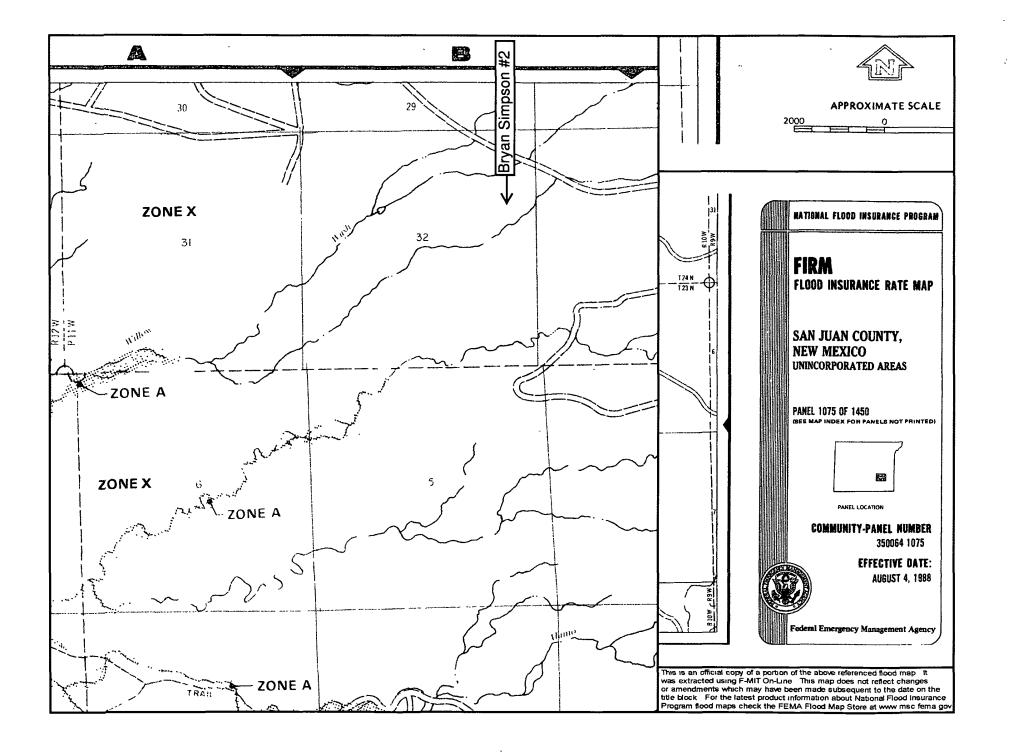
### Elm Ridge Exploration Mine Map

#### Mines, Mills & Quarries Commodity Groups **Aggregate & Stone Mines Coal Mines** Industrial Minerals Mines Industrial Minerals Mills **Metal Mines and Mill Concentrate Potash Mines & Refineries** Smelters & Refinery Ops. **Uranium Mines Uranium Mills** Mines, Mills & Quarries Status **Active Mining Active Mining, Active Reclamation Permanent Closure, Active Reclamation** Permanent Closure, Reclaimed Awaiting Bond Release **Temporary Suspension**









### BELOW GRADE TANK (BGT) CLOSURE PLAN

#### **SITE NAME:**

BRYAN SIMPSON #2
UNIT LETTER H, SECTION 32, TOWNSHIP 25N, RANGE 11W
SAN JUAN COUNTY, NEW MEXICO
LATITUDE 36.360348 LONGITUDE -108.020598

#### **SUBMITTED TO:**

MR. WAYNE PRICE
NEW MEXICO OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
SANTA FE, NEW MEXICO 87505
(505) 476-3440

#### SUBMITTED BY:

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(505) 632-3476

**OCTOBER 2008** 

## BELOW GRADE TANK (BGT) CLOSURE PLAN ELM RIDGE EXPLORATION BRYAN SIMPSON #2 SAN JUAN COUNTY, NEW MEXICO

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#### INTRODUCTION

Elm Ridge Exploration would like to submit a closure plan for the below grade tanks (BGTs) at the Bryan Simpson #2 well site located in the SE ¼ NE ¼ of Section 32, Township 25N, Range 11W, San Juan County, New Mexico. This closure plan has been prepared in conformance with New Mexico Oil Conservation Division (NMOCD) procedures.

#### SCOPE OF CLOSURE ACTIVITIES

The purpose of this closure plan is to provide the details of activities involved in the closure of the BGTs at the Bryan Simpson #2 well site. The following scope of closure activities has been designed to meet this objective:

- 1) Elm Ridge Exploration or a contractor acting on behalf of Elm Ridge Exploration shall submit a closure plan to the division's environmental bureau. Upon receipt of this plan the division shall review the current closure plan for adequacy and accordance with 19.15.17.9 Subsection C NMAC and 19.15.17.13 NMAC.
- 2) 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.
- 3) Elm Ridge Exploration or a contractor acting on behalf of Elm Ridge Exploration shall provide written notification to the surface owner no later than 72 hours prior to BGT removal by certified mail. BLM will receive notification per a Sundry Notice, as in accordance with 19.15.17.13 Subsection J Paragraph (1) NMAC.
- 4) 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 or Basin Disposal, depending on the consistence of the material removed, as in accordance with 19.15.17.13 Subsection E Paragraph (1) NMAC.
- 5) Elm Ridge Exploration or a contractor acting on behalf of Elm Ridge Exploration will remove the BGT and all on-site equipment associated with this BGT that cannot or will not be reused on-site, as in accordance with 19.15.17.13 Subsection E Paragraphs (2) and (3) NMAC.
- 6) 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. An additional discrete sample will be collected from any area that is wet, discolored, or showing other evidence of a release. All samples being collected will be analyzed for benzene and total BTEX via USEPA Method 8021, 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.
- 7) Depending on soil sample results the area will be either backfilled or the area will be excavated.
  - a. If soil samples pass the regulatory standards of 0.2 ppm benzene, 50 ppm

BTEX, 100 ppm TPH, and 250 ppm 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 will backfill the excavation or impacted area with non-waste containing, earthen material, in accordance with 19.15.17.13 Subsection E Paragraph (6) NMAC.
- ii. Upon decommissioning of the well site Elm Ridge Exploration or a contractor acting on behalf of Elm Ridge Exploration will construct a division-prescribed soil cover, substantially restore, recontour and revegetate the site, in accordance with 19.15.17.13 Subsections G, H, and I NMAC. The soil cover for closures where the operator has removed the pit contents or remediated the contaminated soil to the division's satisfaction shall consist of the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater. The operator shall construct the soil cover to the site's existing grade and prevent ponding of water and erosion of the cover material. The operator shall notify the division when it has been re-seeded and when it has achieved successful re-vegetation.
- b. If soil samples exceed the regulatory standards stated above.
  - i. Elm Ridge Exploration will submit a Release Notification by Form C-141 to the appropriate division district office, in accordance with 19.15.17.13 Subsection E Paragraph (4) NMAC.
  - ii. Activities beyond this point will be in accordance with 19.15.3.116 NMAC and 19.15.11.19 NMAC.

#### REPORTING

Reporting will occur within 60 days following the BGT closure and will consist of a form C-144 with all supporting data, and a form C-141 with all supporting data, if necessary. The supporting data will include analytical results, a site diagram, a copy of the site owner notification, and 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** 

Ms. Amy Mackey Elm Ridge Exploration

#### **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's locations. This is Elm Ridge Exploration's standard procedure for all BGT's. A separate plan will be submitted for any BGT that Elm Ridge Exploration possesses, which does not conform to this particular plan.

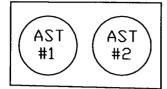
#### **GENERAL PLAN:**

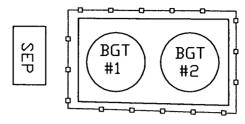
- 1. Elm Ridge Exploration, or a contractor representing Elm Ridge Exploration, will operate and maintain a BGT to contain liquids and solids to prevent contamination of fresh water and to protect public health and the environment.
- Elm Ridge Exploration, or a contractor representing Elm Ridge Exploration, shall not
  allow a BGT to overflow or allow surface water run-on to enter the BGT. Figure A, Site
  Map and Figure B, Design Plan can be referenced for a visual representation of how this
  will be accomplished.
- 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.
- 5. Elm Ridge Exploration, or a contractor representing Elm Ridge Exploration, shall maintain adequate freeboard to prevent overtopping of the BGT.

Figure A, Site Map

Figure B, Design Plan







Pump Jack



## LEGEND

1 4' Tall Hogwire 1 Fencing

Berm

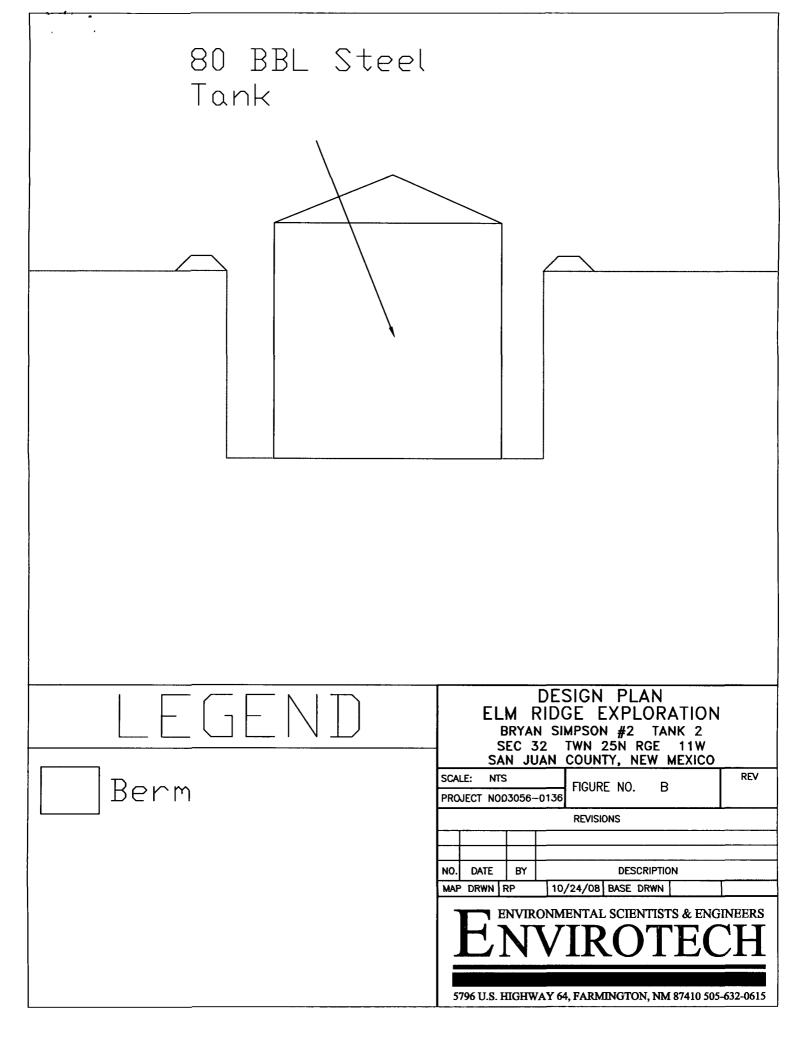
Well Head

## SITE MAP ELM RIDGE EXPLORATION BRYAN SIMPSON #2 SEC 32 TWN 25N RGE 11W SAN JUAN COUNTY, NEW MEXICO

SCA	LE: NT	E: NTS		FIGURE NO. A	REV		
PROJECT N003056-0135			FIGURE NO. A				
	REVISIONS						
<u> </u>	DATE				ODIDTION		
NO.	DATE	BY		DES	CRIPTION		
MAP	DRWN	JPM	10	/16/08 BASE	DRWN		

ENVIROTECH

5796 U.S. HIGHWAY 64, FARMINGTON, NM 87410 505-632-0615



#### **Elm Ridge Exploration**

#### San Juan Basin

#### **Below Grade Tank Design and Construction Plan**

In accordance with Rule 19.15.17 the following information describes the design and construction of below grade tanks (BGTs) on Elm Ridge Exploration locations. This will be Elm Ridge Exploration's standard procedure for all BGTs. A separate plan will be submitted for any BGT which does not conform to this plan.

#### **GENERAL PLAN:**

. . . .

- 1. Elm Ridge Exploration, or a contractor representing Elm Ridge Exploration, will design and construct a BGT to contain liquids and solids to prevent contamination of fresh water and to protect public health and the environment.
- 2. Elm Ridge Exploration will use a general location sign posted on location. If no general sign is posted, a separate sign at the location of the BGT will be provided.
- 3. Elm Ridge Exploration, or a contractor representing Elm Ridge Exploration, shall construct fencing around the BGT using a four (4) foot hog wire fencing topped with two (2) strands of barbed wire, or with a pipe top rail. A six (6) foot chain link fence topped with three (3) strands of barbed wire will be used if the well location is within 1000 feet of a permanent residence, school, hospital, institution or a church.
- 4. Elm Ridge Exploration, or a contractor representing Elm Ridge Exploration, will construct an expanded metal covering on the top of the BGT.
- 5. Elm Ridge Exploration, or a contractor representing Elm Ridge Exploration, shall ensure that a BGT is constructed of materials resistant from damage by sunlight and the BGT's particular contents.

6. Elm Ridge Exploration, or a contractor representing Elm Ridge Exploration, shall ensure that the BGT system has a properly constructed foundation consisting of a level base free of rocks, debris, sharp edges or irregularities to prevent punctures, cracks or indentations of the liner or tank bottom.

>

- 7. 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.
- 8. Elm Ridge Exploration, or a contractor representing Elm Ridge Exploration, will construct and use a BGT that does not have double walls. The BGT side walls will be open for visual inspection for leaks. The BGT bottom is elevated a minimum of six inches above the underlying ground surface and the BGT is underlain with a geomembrane liner to divert leaked liquid to a location that can be visually inspected.
- 9. Elm Ridge Exploration, or a contractor representing Elm Ridge Exploration, shall equip BGTs designed in this manner with a properly operating automatic high level shut-off control device and manual controls to prevent overflow.
- 10. Elm Ridge Exploration, or a contractor representing Elm Ridge Exploration, will ensure that the geomembrane liner consists of 30-mil flexible PVC of 60-mil HDPE liner, or an equivalent liner material that the appropriate division district office approves. The geomembrane liner shall have a hydraulic conductivity no greater than 1 x 10<sup>-9</sup> cm/sec. The geomembrane liner shall be composed of an impervious, synthetic material that is resistant to petroleum hydrocarbons, salts and acidic and alkaline solutions. The liner material shall be resistant to ultraviolet light. Liner compatibility shall comply with EPA SW-846 Method 9090A.
- 11. The general specification for design and construction is attached as *Figure C, BGT Design and Construction*.

Figure C, BGT Design and Construction

