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 1220 S. St. Francis Dr., Santa Fe, NM 87505

Surface Owner: Navajo Nation

State of New Mexico Energy Minerals and Natural Resources

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

Form C-141 Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action OPERATOR Initial Report Final Repo Name of Company: Elm Ridge Exploration Contact: Amy Mackey Telephone No.: (505) 632-3476 Ext 201 Address: PO Box 156, Bloomfield, NM 87413 Facility Name: West Bisti Coal 14 COM 1 Facility Type: Gas Well Mineral Owner: Lease No.: NMNM 89347

LOCATION OF RELEASE East/West Line Unit Letter Section Township Feet from the North/South Line Feet from the County Range Α 25N 790 790 FEL San Juan Latitude 36.406288 Longitude -108.182264 NATURE OF RELEASE Volume Recovered: Unknown Type of Release: Produced Water Volume of Release: Unknown Source of Release: Earth Pit Date and Hour of Discovery: NA Date and Hour of Occurrence: Historical Was Immediate Notice Given? If YES, To Whom? ☐ Yes ☐ No ☒ Not Required By Whom? Date and Hour Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* Produced water from a gas well at the above mentioned location formerly discharged into an earthen pit on location. The well has been altered to no longer drain into an earthen pit, but instead into an above ground storage tank (AST). Describe Area Affected and Cleanup Action Taken.* Blow sand was removed from the earthen pit, and approximately one-hundred and eighteen (118) yards of 'production sludge' was removed from the earthen pit. A five (5)-point composite sample was collected from beneath the pit once it was removed. The sample was analyzed in the field for total petroleum hydrocarbons (TPH) via USEPA Method 418.1, and in Envirotech's laboratory for benzene and BTEX via USEPA Method 8021 and for total chlorides via USEPA Method 4500B. The sample returned results below the 'Pit Rule' standards of 100 mg/kg TPH, 0.2 mg/kg benzene, 50 mg/kg BTEX and 250 mg/kg total chlorides, confirming that a release had not occurred. Analytical results are attached for your reference. I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NIOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Approved by District Supervisor: Printed Name: Ms. Amy Mackey Title: Administrative Manager Approval Date: **Expiration Date:** E-mail Address: amackey1@elmridge.net Conditions of Approval: Attached Phone: 505-632-3476 Ext 201

Attach Additional Sheets If Necessary

Form C-144 July 21, 2008

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 OGRID #: 149052					
Address: P.O. Box 156; Bloomfield, NM 87413					
Facility or well name: West Bisti Coal 14 COM 1					
API Number: 3004528914 OCD Permit Number:					
U/L or Qtr/Qtr A Section 14 Township 25N Range 13W County: San Juan					
Center of Proposed Design: Latitude 36.406288 Longitude -108.182264 NAD: □1927 ⋈ 1983					
Surface Owner: Federal State Private Tribal Trust or Indian Allotment					
Surface Owner: Federal State Private Tribal Trust or Indian Allotment					
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume:bbl Type of fluid: Tank Construction material:					
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.					

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,	hospital,
institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet	
☐ Alternate. Please specify	
7.	
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	
9. 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 appropriate 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	priate district pproval.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank.	☐ Yes ☐ No
- NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	
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. - 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) (☐ 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) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
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 ☐ NA
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.	Yes No
Within 500 feet of a wetland.	
Within the area overlying a subsurface mine.	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
	Yes No
	☐ Yes ☐ No

II. I Emporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Instructions: Each of the following items must be attached to the application. Please indicate, by a check fattached.	
Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsecti Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) o Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 N Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC	of Subsection B of 19.15.17.9 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 requirement 19.15.17.13 NMAC	ments of Subsection C of 19.15.17.9 NMAC
Previously Approved Design (attach copy of design) API Number: or Pe	ermit Number:
2. 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 to	mark in the box, that the documents are
intached. Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Paragraph Siting Criteria Compliance Demonstrations (only for on-site closure) - 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	irements of 19.15.17.10 NMAC
Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate require nd 19.15.17.13 NMAC	ments of Subsection C of 19.15.17.9 NMAC
Previously Approved Design (attach copy of design) API Number:	
Previously Approved Operating and Maintenance Plan API Number: (Ap	oplies only to closed-loop system that use
bove ground steel tanks or haul-off bins and propose to implement waste removal for closure)	
ermanent 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 retached.	mark in the box, that the documents are
Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 Nl Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 N	MAC IMAC
☐ 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 19.15.17.1 Leak Detection Design - based upon the appropriate requirements of 19.15.17.11 NMAC	II NMAC
☐ Liner Specifications and Compatibility Assessment - based upon the appropriate requirements of 19.15. ☐ Quality Control/Quality Assurance Construction and Installation Plan	17.11 NMAC
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	JMAC
Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan	NMAC
☐ 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 19.1	5.17.13 NMAC
coposed Closure: 19.15.17.13 NMAC structions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure	e plan.
rpe: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grad	de Tank 🔲 Closed-loop System
oposed 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 En	vironmental Bureau for consideration)
aste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the	
sure plan. Please indicate, by a check mark in the box, that the documents are attached.	following tiens must be unuened to the
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 or	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 1 	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	

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13.1 Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if facilities are required.	O NMAC) more than two
Disposal 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 occur on or in areas that will not be used for future ser Yes (If yes, please provide the information below) No	vice 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 G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	С
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 sour provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate dist considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justi demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	rict 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 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; Data obtained from nearby wells	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; USGS; Data obtained from nearby wells	☐ Yes ☐ No ☐ NA
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. 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; 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
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan 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 19.15.17.13 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 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 Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	15.17.11 NMAC

Form C-144

Operator Application Certification:	
I hereby certify that the information submitted	d with this application is true, accurate and complete to the best of my knowledge and belief.
Name (Print):	Title:
Signature:	Date:
E-mail address:	Telephone:
OCD Approval: Permit Application (inc	luding closure plan) Closure Plan (only) OCD Conditions (see attachment)
OCD Representative Signature:	Approval Date:
Title:	OCD Permit Number:
Closure Report (required within 60 days of Instructions: Operators are required to obtain The closure report is required to be submitted	closure completion): Subsection K of 19.15.17.13 NMAC in an approved closure plan prior to implementing any closure activities and submitting the closure report to the division within 60 days of the completion of the closure activities. Please do not complete this plan has been obtained and the closure activities have been completed.
	☐ Closure Completion Date: 9/29/09
22. Closure Method: Waste Excavation and Removal □ On- □ If different from approved plan, please exp	Site Closure Method
Instructions: Please indentify the facility or f two facilities were utilized.	Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more that
Disposal Facility Name: Envirotech Lanc	
Disposal Facility Name:	
Yes (If yes, please demonstrate compliants)	sociated activities performed on or in areas that will not be used for future service and operations? nee to the items below) \(\sigma\) No
Required for impacted areas which will not be Site Reclamation (Photo Documentation	
Soil Backfilling and Cover Installation	,
Re-vegetation Application Rates and Sec	ding Technique
mark in the box, that the documents are attack Proof of Closure Notice (surface owner a Proof of Deed Notice (required for on-si Plot Plan (for on-site closures and tempo Confirmation Sampling Analytical Resul Waste Material Sampling Analytical Resul Disposal Facility Name and Permit Num Soil Backfilling and Cover Installation Re-vegetation Application Rates and See Site Reclamation (Photo Documentation)	and division) See Attached te closure) trary pits) dts (if applicable) See Attached sults (required for on-site closure) ber Envirotech Landfarm #2 NM-01-0011 See Attached dding Technique Per BLM MOU) See Attached
On-site Closure Location: Latitude	Longitude NAD:
belief. I also certify that the closure complies w	nents submitted with this closure report is true, accurate and complete to the best of my knowledge and with all applicable closure requirements and conditions specified in the approved closure plan.
Name (Print): Ns. Amy Mackey	Title: Administrative Manager
Signature:	Date: 11 20 07
E-mail address: amackey l@elmridg	e.net Telephone: (505) 632-3476 ext. 201

Elm Ridge Exploration West Bisti Coal 14 COM 1 Earth Pit Closure Project No. 03056-0211 Closure Date: 9/29/09

Earthen Pit Closure Checklist

- 1) Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will close all former earthen pits prior to the closure date agreed upon by the New Mexico Oil Conservation Division (NMOCD) of December 31, 2009.

 Closure date for the earth pit located at the West Bisti Coal 14 COM 1 well site is September 29, 2009.
- 2) In accordance with Subsection A of 19.15.17.13 NMAC, Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will close any earthen pits at a date the division requires because of imminent danger to fresh water, public health or the environment.

 None of the earther pits to be closed by Elm Ridge Exploration are deemed an

None of the earthen pits to be closed by Elm Ridge Exploration are deemed an imminent risk to the environment, public health, or to fresh or public water.

3) Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will close earthen pits first which seem to pose a greater risk to fresh water, public health, or the environment. This will be determined by the locations proximity to surface water sources and distance to groundwater.

None of the corther pits to be closed by Flm Bidge Exploration are deemed an

None of the earthen pits to be closed by Elm Ridge Exploration are deemed an imminent risk to the environment, public health, or to fresh or public water.

- 4) No less than 60 days prior to any earthen pit closure activities, Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will provide written notification to the Santa Fe NMOCD office as well as a schedule of on-site activities, as in accordance with 19.15.17.13 Subsection J Paragraph (3) NMAC.

 Notification was provided to Mr. Brad Jones of the NMOCD Santa Fe Office on August 4, 2009, along with a schedule of on-site activities; see attached Notification Letter. A schedule modification letter was sent to Mr. Brad Jones of the NMOCD Santa Fe office on September 21, 2009; see attached Notification Modification Letter.
- 5) No less than 24 hours and no greater than one (1) week prior to earthen pit removal, Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will provide written notification to the appropriate surface owner as well as a schedule of onsite activities, 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 an earthen pit. 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 the earthen pit 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 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 will receive notice at least 24 hours prior to the beginning of closure activities.

Notification was provided to the Navajo Nation on September 22, 2009; see attached Return Receipt.

- 6) Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will remove all liquids and/or sludge, to visual extents, prior to closure sampling. 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 C Paragraph (1) NMAC.
 - On September 29, 2009, approximately one-hundred and eighteen (118) cubic yards of production sludge was removed from the earthen pit and disposed of at Envirotech's NMOCD permitted soil remediation facility, Landfarm #2, Permit # NM-01-0011; see attached *Bill of Lading*.
- 7) Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will remove all on-site equipment associated with this earthen pit unless it is required for some other purpose, as in accordance with 19.15.17.13 Subsection C Paragraph (2) NMAC. The equipment that meets the requirements of 19.15.9.712 Subsection A NMAC and 19.15.9.712 Subsection D Paragraph (1) will be disposed of at San Juan County Regional Landfill. Waste that is classified by 19.15.9.712 Subsection D Paragraph (2) will be sampled accordingly to determine acceptance of this material at the San Juan County Regional Landfill. Waste that is unable to be accepted at the San Juan County Regional Landfill will be submitted to the OCD on a case-by-case basis in accordance with Paragraph (3) of Subsection D of 19.15.9.712.

All on-site equipment will be used for the continued operation of the West Bisti Coal 14 COM 1 well site; see attached *Field Sheet* and *Site Photographs*.

8) Once the earthen pit is removed to visual extents of contamination, a five (5)-point composite sample will be collected from directly below the liner(s) or at native soil. Additional discrete samples will be collected from any area that is wet, discolored or show 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 C Paragraph (3) NMAC.

A five (5)-point composite sample was collected of native soil beneath the earthen pit and analyzed in the field for total petroleum hydrocarbons (TPH) via USEPA Method 418.1, and analyzed in the laboratory for benzene and BTEX via USEPA Method 8021B, and for total chlorides via USEPA Method 4500B. The sample returned results below the 100 mg/kg TPH standard, the 0.2 mg/kg benzene standard, the 50 mg/kg BTEX standard and the 250 mg/kg total chloride standard, confirming that a release did NOT occur.

NAME	Benzene	BTEX	Chlorides	TPH
Pit Rule	0.2 mg/kg	50 mg/kg	250 mg/kg	100 mg/kg
Standard				
5pt Composite @	< 0.0009 mg/kg	< 0.005 mg/kg	170 mg/kg	8 mg/kg
6' Below Pit				

- 9) Depending on soil sample results the area will be either backfilled or the area will be excavated.
 - 1) 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 C Paragraph (3) 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 (4) of Subsection C of 19.15.17.13 NMAC.

Completed Form C-141 is attached for your review.

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 Subsection E Paragraph (6) NMAC. A soil cover shall be installed for all backfilled excavations consisting of the background thickness of topsoil or one (1) 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.

Elm Ridge Exploration has backfilled the excavated area with non-waste containing earthen material, and installed a soil cover of at least one (1) foot thick of suitable material to establish vegetation at this site. The soil cover has been graded in such a way that it conforms to the grade of the natural surroundings, and will prevent ponding of water and erosion of the cover material; see attached Site Photographs.

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, recontour 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.

Elm Ridge Exploration has restored, recontoured and re-seeded the excavated area in accordance with BLM standards as outlined in the Memorandum of Understanding (MOU), approved by the Navajo Nations.

- 2) If soil samples exceed the regulatory standards stated above:
 - 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 (4) of Subsection C of 19.15.17.13 NMAC.

The samples of native soil beneath the earthen pit returned results below the 100 mg/kg TPH standard, the 0.2 mg/kg benzene standard, the 50 mg/kg BTEX standard and the 250 mg/kg total chloride standard, confirming that a release did NOT occur.

Elm Ridge Exploration West Bisti Coal 14 COM 1 Earth Pit Closure Project No. 03056-0211 Closure Date: 9/29/09

10) Elm Ridge Exploration will submit a closure report within 60 days following the earthen pit 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.

See attached C-144 Closure Form and attached Form C-141 Release Notification Form. Closure report has been submitted prior to November 29, 2009.

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August 4, 2009

Project No. 03056-0241

Mr. Brad Jones
New Mexico Oil Conservation Division
1220 South St. Francis Street
Santa Fe, New Mexico 87505

Phone (505) 476-3487

RE: EARTH PIT CLOSURE NOTIFICATIONS AND PROPOSED CLOSURE SCHEDULE

Dear Mr. Jones,

Envirotech, Inc., on the behalf of Elm Ridge Exploration, would like to submit this notification to begin closure activities at the below mentioned locations. Attached to this document is a proposed closure schedule for the months of August and September of 2009. Should this schedule be approved by your office, closure activities will begin as scheduled, with surface owner notifications being made at a minimum of 24 hours prior to the beginning of closure activities and a maximum of one (1) week prior to closure activities. Additional closure notifications and schedules will be made prior to beginning any closure activities. This letter will act as the closure notification for the following sites:

Bisti Coal 20-2	Bisti Coal 6-1	Bisti Coal 6-2	Bisti Coal 7-1
Bisti Coal 7 COM 2	Bisti Coal 8 COM 1	Bisti Coal 8L COM 2	Bisti Coal 9-1
Bisti Coal 9 COM 2	Bisti Coal 21-1	Bisti Coal 21 COM 2	Bisti Coal 22-2
Bisti Coal 28-1	Bisti Coal 29-1	Bisti Coal 29-2	Bisti Coal 30 COM 1
Bisti Coal 31-1	Bisti Coal 4-1	Bisti Coal 4 COM 2	Bisti Coal 5 COM 1
Bisti Coal 5K COM 2	Carson 10-332	Buena Suerte 3 G COM 1	Buena Suerte 3 L COM 1
Buena Suerte 32 G COM 1	East Bisti Coal 6-1	Buena Suerte 4 L COM 1	Carson Unit 15 COM 323
Carson Unit 206	Carson Unit 313	Pete Morrow 1	Pete Morrow 2
North Bisti Coal 32M COM 2	North Bisti Coal 31-1	Sam Jackson State COM 1	Jeter COM 2
West Bisti Coal 11 F COM 1	West Bisti Coal 12-1	West Bisti Coal 13-1	West Bisti Coal 11-2
West Bisti Coal 10-2	West Bisti Coal 15-1	West Bisti Coal 14 COM 1	West Bisti Coal 15-2
West Bisti Coal 22-2	West Bisti Coal 23-1	West Bisti Coal 22 COM 1	West Bisti Coal 24-1
West Bisti Coal 24 COM 2	West Bisti Coal 25-1	West Bisti Coal 25 2Y	Jicarilla Apache I-11
Sheila Hixon 1	Bisti Coal 16-2		

Elm Ridge Exploration is proposing to close the earthen pits at the above listed well locations based on the attached closure schedule.

We appreciate the opportunity to be of service. Should you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully Submitted,

ENVIROTECH. INC

James McDaniel Project Scientist

imedaniel@envirotech-inc.com

ELM RIDGE EXPLORATION

Administrative Manager amackey | Welmridge.net

my Mackey

Attachments: Closure Schedule

August 2009

Sunday	Monday	Augus Tuesdav	August 2009 v Wed	Thurs	Friday	to C
						-
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23	24 Bisti Coel 6-1 Bisti Coel 6-2 Bisti Coel 7-1 Bisti Coel 7 COM 2 Bisti Coel 8 COM 1 Bisti Coel 9-1 Bisti Coel 9-1 Bisti Coel 9-1	25 Bisti Coal 6-1 Bisti Coal 6-2 Bisti Coal 7-1 Bisti Coal 7-CM 2 Bisti Coal 8 COM 1 Bisti Coal 9-1 Bisti Coal 9-1 Bisti Coal 9-1	26 Bieti Coal 6-1 Bieti Coal 6-2 Bieti Coal 7-1 Bieti Coal 7-COM 2 Bieti Coal 8-COM 1 Bieti Coal 9-1 Bieti Coal 9-COM 2	Bieti Coal 6-1 Bieti Coal 6-1 Bieti Coal 6-2 Bieti Coal 7-1 Bieti Coal 7 COM 2 Bieti Coal 8 COM 1 Bieti Coal 9-1 Bieti Coal 9-1	28 Bist Coal 6-1 Bist Coal 6-2 Bist Coal 7-1 Bist Coal 7 COM 2 Bist Coal 8 COM 1 Bist Coal 9-1 Bist Coal 9 COM 2	29
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2009-09-24



September 21, 2009

Mr. Brad Jones New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Phone (505) 476-3487

RE: WEST BISTI COAL 14 COM 1 & WEST BISTI COAL 15-1 EARTH PIT CLOSURE NOTIFICATIONS

Dear Mr. Brad Jones,

Please accept this letter as an addition to the schedule of closure activities to take place during the week of September 28, 2009 to October 2, 2009. Closure activities will take place at the West Bisti Coal 14 COM 1 well site, owned and operated by Elm Ridge Exploration. The West Bisti Coal 14 COM 1 well site is located in Unit A, Section 14, Township 25N, Range 13W, San Juan County, New Mexico. Closure activities will also take place at the West Bisti Coal 15-1 well site, owned and operated by Elm Ridge Exploration. The West Bisti Coal 15-1 well site is located in Unit G, Section 15, Township 25N, Range 13W, San Juan County, New Mexico. Closure activities at the above mentioned well sites were not completed as scheduled due to inclement weather during the proposed week of closure.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully Submitted,

Envirotech, Inc

James McDaniel Project Scientist

imcdaniel@envirotech-inc.com

Cc:

Client File No. 03056



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September 8, 2009

Project No. 03056-0211

Ms. Rita Whitehorse-Larsen The Navajo Nation EPA P.O. Box 339 Window Rock, AZ 86515

Phone: (928) 871-7692

RE: WEST BISTI COAL 14 COM 1 EARTH PIT CLOSURE NOTIFICATION

Dear Ms. Whitehorse-Larsen,

Please accept this letter and attached Sundry Notice as the necessary surface owner notification for earth pit closure activities at the West Bisti Coal 14 COM 1 well site, owned and operated by Elm Ridge Exploration. The West Bisti Coal 14 COM 1 well site is located in Unit A, Section 14, Township 25N, Range 13W, San Juan County, New Mexico. Closure activities are scheduled to begin on September 14, 2009 and continue through September 18, 2009.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully Submitted,

James McDaniel

Project Scientist

imcdaniel@envirotech-inc.com

ENVIROTECH, INC

Enclosure:

Sundry Notice

Cc:

Client File No. 03056

ELM RIDGE EXPLORATION WEST BISTI COAL 14 COM 1 SEC. 14, TWN. 25N, RNG. 13W PROJECT NO. 03056-0211

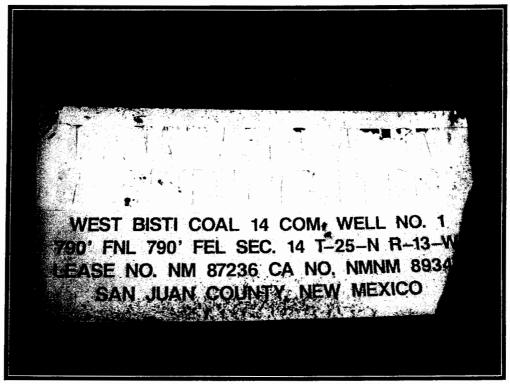


Photo 1: West Bisti Coal 14 COM 1 Well Site

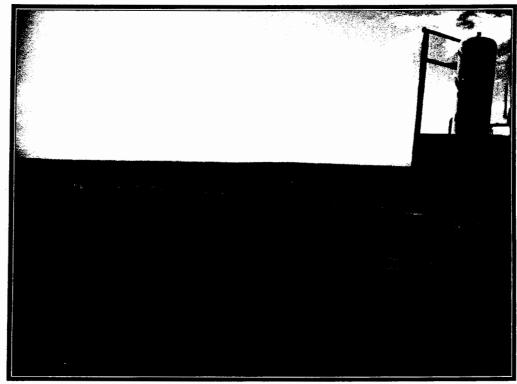


Photo 2: Excavated Area after Backfilling and Recontouring



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Elm Ridge Exploration

Project #:

03056-0211

Sample No.:

1

Date Reported:

10/12/2009

Sample ID:

6' Below Pit Composite

Date Sampled:

9/29/2009

Sample Matrix:

Soil

Date Analyzed:

9/29/2009

Preservative:

Cool

Analysis Needed:

TPH-418.1

$\overline{}$	V.	141	u		

Cool and Intact

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

8

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

West Bisti Coal 14 COM 1

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Robyn Johes

Printed

James McDaniel

Printed



CONTINUOUS CALIBRATION EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Cal. Date:

29-Sep-09

Parameter	Standard Concentration mg/L	Concentration Reading mg/L	
ТРН	100		
	200 500 1000	196	

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Robyn Jones

Print Name

Ręview

10 12 09

11/20/00

James McDaniel

Print Name



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Elmridge	Project #:	03056-0211
Sample ID:	6' Below Pit Comp	Date Reported:	10-08-09
Laboratory Number:	51888	Date Sampled:	09-29-09
Chain of Custody:	8088	Date Received:	09-29-09
Sample Matrix:	Soil	Date Analyzed:	10-07-09
Preservative:	Cool	Date Extracted:	10-05-09
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)	
Benzene	ND	0.9	
Toluene	ND	1.0	
Ethylbenzene	ND	1.0	
p,m-Xylene	ND	1.2	
o-Xylene	ND	0.9	
Total BTEX	ND		

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	99.0 %
	1,4-difluorobenzene	99.0 %
	Bromochlorobenzene	99.0 %

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments:

West Bisti Coal 14 Com 1

Analyst

(Moth Meters Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	10-07-BT QA/QC	Date Reported:	10-08-09
Laboratory Number:	51958	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-07-09
Condition:	N/A	Analysis:	BTEX

Benzene	1.1234E+006	1.1257E+006	0.2%	ND	0.1
Toluene	1.0365E+006	1.0386E+006	0.2%	ND	0.1
Ethylbenzene	9.3394E+005	9.3581E+005	0.2%	ND	0.1
p,m-Xylene	2.3468E+006	2.3515E+006	0.2%	ND	0.1
o-Xylene	8.8232E+005	8.8409E+005	0.2%	ND	0.1

Benzene	ND	ND	0.0%	0 - 30%	0.9	
Toluene	ND	ND	0.0%	0 - 30%	1.0	
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.0	
p,m-Xylene	ND	ND	0.0%	0 - 30%	1.2	
o-Xylene	ND	ND	0.0%	0 - 30%	0.9	

Benzene	ND	50.0	46.8	93.6%	39 - 150
Toluene	ND	50.0	48.8	97.6%	46 - 148
Ethylbenzene	ND	50.0	47.0	94.0%	32 - 160
p,m-Xylene	ND	100	94.4	94.4%	46 - 148
o-Xylene	ND	50.0	49.8	99.6%	46 - 148

ND - Parameter not detected at the stated detection limit.

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using

Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments:

QA/QC for Samples 51888, 51958 - 51963, 51967 - 51968, and 51987.



Chloride

Client: Project #: 03056-0211 Elm Ridge Sample ID: Background 10-09-09 Date Reported: Lab ID#: 51887 Date Sampled: 09-29-09 Sample Matrix: Soil Date Received: 09-29-09 Preservative: Cool Date Analyzed: 10-01-09 Condition: Intact Chain of Custody: 8808

Parameter

Concentration (mg/Kg)

Total Chloride

15

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.

Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments:

West Bisti Coal 14 Com 1.

Analyst

Mister Waters
Review



Chloride

Client: Sample ID:

Elm Ridge 6' Below Pit Comp Project #:
Date Reported:

03056-0211 10-09-09

Lab ID#: Sample Matrix: Preservative:

51888 Soil Cool Date Sampled: Date Received: Date Analyzed: 09-29-09 09-29-09 10-01-09

Condition: Intact

Chain of Custody:

8808

Parameter

Concentration (mg/Kg)

Total Chloride

170

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.

Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments:

West Bisti Coal 14 Com 1.

Analyst

Anestrem Wadles
Review

CHAIN OF CUSTODY RECORD

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LAND OWNER:	PUNDO	tech la	API:	KENEDIA	TION METER	BGT / PIT	VOLUME:	
CONSTRUCTION MATERIA	AL: Gara	m		WALLED,	WITH LEAK I			
LOCATION APPROXIMATE		5D	FT.		FROM WELI			
DEPTH TO GROUNDWATE		-,00	II.		TROM WELL	3.113.43	 	
TEMPORARY PIT - GR		ER 50-100 FE	ET DEEP	-				
BENZENE ≤ 0.2 mg/kg, B	TEX ≤ 50 mg/	kg, GRO & DR	O FRACTIO	N (8015) ≤ 50	00 mg/kg, TPH ((418.1) ≤ 2500	mg/kg, CHL	ORIDES ≤ 500 mg/kg
TEMPORARY PIT - GR	CINDWAT	TR >100 FER	T DEEP					
BENZENE ≤ 0.2 mg/kg, B7				N (8015) ≤ 50	0 mg/kg, TPH (4	418.1) ≤ 2500	mg/kg, CHL(ORIDES ≤ 1000 mg/kg
. 1		0 ,		(,		
Y PERMANENT PIT OR I BENZENE ≤ 0.2 mg/kg, B		να ΤΡΗ (A18 1)) < 100 ma/k	~ CHI ODIDI	ES < 250 mg/kg			
DENAELNE 3 0.2 mg kg, D	TEX 2 JO ING.	kg, 1111 (410.1)) > 100 mB v5	_	•			
	TIME	SAMPLE I.D.	LADNO	FIEL WEIGHT (g	D 418,1 ANAL mL FREON	DILUTION	READING	CALC. (mg/kg)
	916	200 STD	LAB NO.	WEIGHT (g	IIIL FREON	-	196	Crizo. (mg kg)
	9.70	3'BPHCO		5	20	Ч	2	8
	16:51	6'B.PitCon	V) 2	5	26	1 4	2	B
	r y .							
	· · · · · · · · · · · · · · · · · · ·		3					
			3 4					
PERIME	ETER		3 4 5 6	HLORIDE	S RESULTS		PRO	DFILE
PERIME			3 4 5 6	1			PRC	DFILE
PERIME	ETER W.		3 4 5 6 FIELD C	READING	S RESULTS CALC. (mg/kg)		PRO	DFILE
PERIME			3 4 5 6 FIELD C SAMPLE ID Backgrou	READING	CALC. (mg/kg)		PRC	DFILE
PERIME			3 4 5 6 FIELD C SAMPLE ID Backgrou 3' B PACo	READING d 1.2 w 6.4	CALC. (mg/kg) 3-4 7-3-5		PRO	DFILE
PERIME			3 4 5 6 FIELD C SAMPLE ID Backgrou 3'B PACo 5'B PACO	READING	CALC. (mg/kg)		PRC	OFILE X
PERIME X X X X X X X X X X X X X X X X X X X			3 4 5 6 FIELD C SAMPLE ID Backgrou 3'B PACo 5'B PACO	READING 1. 2 10 6.4 10 5.4	CALC. (mg/kg) 34 435	7×	PRC	OFILE X
			3 4 5 6 FIELD C SAMPLE ID BACKGTOW 3'B PACO 5'B PACO	READING 1. 2 10 6.4 10 5.4 10 5.0	CALC. (mg/kg) 34 735 361 259	ZX	PRC	OFILE X
			3 4 5 6 FIELD C SAMPLE ID Backgrou 3'B PACo 5'B PAC	READING od 1. 7- od 6.4 omp 5.4 omp 5.0 PID RESUI	CALC. (mg/kg) 34 735 361 259	7×	PRC	OFILE
			3 4 5 6 FIELD C SAMPLE ID Backgrou 3'B PHC 5'B.PHC	READING d 1. 2- no 6. 4 mp 5.4 lomp 5.0 PID RESUI	CALC. (mg/kg) 34 435 361 25°1 TS RESULTS (ppm)	7×	PRC	OFILE
			3 4 5 6 FIELD C SAMPLE ID Backgrou 3'B PHC 5'B.PHC	READING od 1. 7- od 6.4 omp 5.4 omp 5.0 PID RESUI	CALC. (mg/kg) 34 435 361 25°1 TS RESULTS (ppm)	X	X X	×
			3 4 5 6 FIELD C SAMPLE ID Backgrou 3'B PHC 5'B.PHC	READING d 1. 2- no 6. 4 mp 5.4 lomp 5.0 PID RESUI	CALC. (mg/kg) 34 435 361 25°1 TS RESULTS (ppm)	7× ×S	X X	×
			3 4 5 6 FIELD C SAMPLE ID Backgrou 3'B PHC 5'B.PHC	READING d 1. 2- no 6. 4 mp 5.4 lomp 5.0 PID RESUI	CALC. (mg/kg) 34 435 361 25°1 TS RESULTS (ppm)	XX	X X	Points
			3 4 5 6 FIELD C SAMPLE ID Backgrou 3'B PHC 5'B.PHC	READING d 1. 2- no 6. 4 mp 5.4 lomp 5.0 PID RESUI	CALC. (mg/kg) 34 435 361 25°1 TS RESULTS (ppm)	XX	X X	×
X PH SEE	10 OP		3 4 5 6 FIELD C SAMPLE ID Backgrow 3'B PHC 5'B.PHC	READING d 1. 2- no 6. 4 mp 5.4 lomp 5.0 PID RESUI	CALC. (mg/kg) 34 435 361 25°1 TS RESULTS (ppm)	XX	X X	×
LAB SAMPLES	40 OF	NOTES:	3 4 5 6 FIELD C SAMPLE ID Backgrou 3'B PACo 5'B PACO IO' B. PACO	READING d 1. 2- no 6. 4 mp 5.4 lomp 5.0 PID RESUI	CALC. (mg/kg) 34 435 361 25°1 TS RESULTS (ppm)	X	X X	×
LAB SAMPLES SAMPLE ID ANALYSIS	10 OP	NOTES:	3 4 5 6 FIELD C SAMPLE ID Backgrou 3'B PACo 5'B PACO IO' B. PACO	READING d 1. 2- no 6. 4 mp 5.4 lomp 5.0 PID RESUI	CALC. (mg/kg) 34 435 361 25°1 TS RESULTS (ppm)	X	X X	×
LAB SAMPLES SAMPLE D ANALYSIS BENZENE BTEX	40 OF		3 4 5 6 FIELD C SAMPLE ID Backgrou 3'B PACo 5'B PACO IO' B. PACO	READING d 1. 2- no 6. 4 mp 5.4 lomp 5.0 PID RESUI	CALC. (mg/kg) 34 435 361 25°1 TS RESULTS (ppm)	XX	X X	×
LAB SAMPLES SAMPLE ID ANALYSIS BENZENE BTEX GRO & DRO	40 OF		3 4 5 6 FIELD C SAMPLE ID Backgrou 3'B PACo 5'B PACO IO' B. PACO	READING d 1. 2- no 6. 4 mp 5.4 lomp 5.0 PID RESUI	CALC. (mg/kg) 34 435 361 25°1 TS RESULTS (ppm)	XX	X X	×
LAB SAMPLES SAMPLE D ANALYSIS BENZENE BTEX	40 OF		3 4 5 6 FIELD C SAMPLE ID Backgrou 3'B PACo 5'B PACO IO' B. PACO	READING d 1. 2- no 6. 4 mp 5.4 lomp 5.0 PID RESUI	CALC. (mg/kg) 34 435 361 25°1 TS RESULTS (ppm)	XX	X X	×

Cenvirotech

のでながら

DATE 5-36-02 JOB# 02056

MANIFEST # PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401

DRIVER SIGNATURE **FRANSPORTING COMPANY** ENTERED OCT 0 5 2005 アダープラウ 6.0 ×35 TRK# TIME \$ 4: スグ X X 75 と COMPANY カシカ と ひょち 5 3 h NOTES: BBLS B YDS 3 く S. - O. する オーシ イジ アン た。土 GRID #32 COMPLETE DESCRIPTION OF SHIPMENT MATERIAL さら (° Č DESTINATION LANDFARM EMPLOYEE: Ł 7 Č Ł 00 POINT OF ORIGIN $|\mathcal{SH}|$ chloride test PAINT FILTER Sha Klaste RESULTS LOAD

"I certify the material hauled from the above location has not been added to or mixed with, and is the same material received from the above mentioned Generator, and that no additional materials have been added."

COMPANY FINIAM

PHONE 207 22/1

COMPANY CONTACT 1722 A

NAME 1. MCK. mac.

SIGNATURE 6

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District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rota, Aztec NM 8 V10 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico **Energy Minerals and Natural Resources**

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

Revised October 10, 2003

Form C-141

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back side of form

Release Notification and Corrective Action

						OPERA	ГOR			l Report		Final Report
Name of Company: Elm Ridge Exploration						Contact: Amy Mackey						
						Telephone No.: (505) 632-3476 Ext 201						
Facility Nar	ne: West E	Bisti Coal 14	COM 1]]	Facility Typ	e: Gas Well					
Surface Ow	ner: Navaj	o		Mineral C)wner:				Lease N	o.: NM-89	347	
				LOCA	TION	OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/V	Vest Line	County		
A	14	25N	13W	790		FNL	790	ŀ	FEL	San Juan		
				Latitude36.4	06288	Longitu	ıde <u>-108.1822</u> 6	<u>54</u>	·············		***	
				NAT	URE	OF REL	EASE					
Type of Rele						Volume of	Release: Unknow	<i>w</i> n		ecovered: L		
Source of Re	lease: Earth	Pit				Date and H Historical	Iour of Occurrence	ce:	Date and I	Hour of Disc	overy:	NA
Was Immedia	ate Notice (l Yes	No 🛛 Not R	equired	If YES, To	Whom?					
By Whom?			103			Date and H	lour					
Was a Water	course Read						olume Impacting	the Wate	ercourse.			
			Yes ⊠									
If a Watercou	irse was Im	pacted, Descr	ibe Fully.	k								
Describe Cau	se of Proble	em and Reme	dial Actio	n Taken.*								
							arthen pit on loca	tion. Th	e well has t	een altered	to no lo	onger drain
into an earthe	n pit, but ir	nstead into an	Above Gr	ound Storage Tar	ık (AST)							
Describe Are	a Affected :	and Cleanup	Action Tal									
					to June 1	6, 2008. A s	ample was collec	ted from	the earther	n pit and the	sample	e results are
							otal Petroleum H					
							or total chlorides above the 250 pp					
							The site was the					
							et the closure stan					
							delines for the Re	emediati	on of Leaks	, Spills and	Release	es. All
analytical res	ts were be	elow the closu	ire standar	ds determined for	r this site).						
I hereby certi	fy that the i	information g	iven above	is true and comp	lete to th	ne best of my	knowledge and u	ınderstaı	nd that purs	uant to NMO	OCD ru	iles and
regulations a	operators	are required t	o report ar	nd/or file certain i	elease no	otifications a	nd perform correc	ctive acti	ions for rele	ases which	may en	ıdanger
							arked as "Final R					
							ion that pose a three the operator of					
federal, state,				nance of a C-141	report de	des not renev	e the operator of	responsi	ibility for Co	inpirance w	iui any	outer
		1 1					OIL CON	SERV	ATION	DIVISIO	N	
S:	_ /	1 4/1							- 100			
Signature:	Signature:											
Printed Name	: Ms. Amy	Mackey				Approved by	District Supervis	sor:				
Title: Admin	strative Ma	anager	****			Approval Da	te:		Expiration l	Date:		
E-mail Addre	ss: amacke	y1@elmridge	.net			Conditions o	tions of Approval:					
Datas			Dharra	05 (22 247) F	201				*	Attached		
Date:	tional Sha	ets If Necess		05-632-3476 Ext	201							

PAGE NO: OF DATE STARTED: OF DATE FINISHED: 10	 1-08 1-08		RONMENTA 5796 U.S FARMINGT	AL SCIENT 5. HIGHWA	CH INC 1STS & ENGI 1Y 64 - 3014 MEXICO 8740 32-0615		LAT: 3(omental specialist: OWW P, 0.406 288 108 1822637
	FIELD R	REPORT:	BGT/P	T CLO	SURE VE	RIFICA'	LION	
LOCATION: NAME: () LEGAL ADD: UNIT: (QTR/FOOTAGE: //(/)') Bisti NL , 119	('041)4 SEC: 14 0'FEL	WELL#;	1 TWP: 20 SanJu	TEMP PIT: SL/ U. U.		VENT PIT: 1 3 W M	BGT: PM: UMPM
EXCAVATION APPROX: DISPOSAL FACILITY: LAND OWNER: Federal CONSTRUCTION MATERIA		FT. X		OYSƏ WALLED, '	TION METHO 8914 WITH LEAK I	BGT / PIT DETECTION		
LOCATION APPROXIMATE DEPTH TO GROUNDWATE		201000	FT.5070	SCALUS.	FROM WELI	LHEAD		
TEMPORARY PIT - GR BENZENE ≤ 0.2 mg/kg, B TEMPORARY PIT - GR BENZENE ≤ 0.2 mg/kg, B	ROUNDWAT TEX ≤ 50 mg/I ROUNDWAT	ER 50-100 FE kg, GRO & DR ER ≥100 FEE	ET DEEP O FRACTIO T DEEP	•				
PERMANENT PIT OR I BENZENE ≤ 0.2 mg/kg, B				FIEL	D 418.1 ANAL			
	TIME	SAMPLE I.D. 200 STD	LAB NO.	WEIGHT (g	mL FREON	DILUTION	READING	CALC. (mg/kg)
	11:10	Sot amo	1	5	20	4	708	<i>8</i> 832
			3	<u> </u>				
			5					
			6					
PERIMI	ETER		FIELD C	CHLORIDE	S RESULTS		PRO	OFILE
N In		[0]	SAMPLE ID	READING	CALC. (mg/kg)	2312'	x 237	3'X 5' deep
LAB SAMPLE SAMPLE D ANALYSIS BENZENE	RESULTS	NOTES:	SAM	PID RESU PLE ID WIP	LTS RESULTS (mg/kg) O·C	[5',]	+ +	+ /
BTEX GRO & DRO CHLORIDE		WORKORD	FR#		WHO ORDE	RED		Allen

Client: Elm			-}e≀	nviro	tech		Location No	D:
CHOIR.				5) 632-0615 (i	•		C.O.C. No:	
FIELD REPORT: SP	oni Ci C	SURE VI	ERIFICA	TION			PAGE NO:	OF
								RTED:10/2/08
LOCATION: NAME: ω	of Bis	ti Coalk	WELL #:					ISHED: 10/2/08
QUAD/UNIT: A QTR/FOOTAGE: 790`FN		TWP:25N		PM:NMPM CTOR: Envi)		SI:NM	ENVIRONI SPECIALIS	MENTAL ST: S PU#
	7401							
EXCAVATION APPROX: DISPOSAL FACILITY:		FT. X		FT. X REMEDIATION		FT. DEEP	CUBIC YA	RDAGE:
LAND USE: Grazing							NER: t - d	~~!
CAUSE OF RELEASE: Fa	rth Pi		Haterial	M 87236	RELEASED:	Produce	2 Wat	er
SPILL LOCATED APPROXI			FT. 5 0		FROM (~			
DEPTH TO GROUNDWATE							SURFACE V	WATER:71,000
NMOCD RANKING SCORE:			NMOCD T	PH CLOSURE	ESTD: lo	o e	PPM	
SOIL AND EXCAVATION D	ESCRIPTIO	<u>N:</u>						
SAMPLE DESCRIPITION	TIME	SAMPLE I.D.	LAB NO.	WEIGHT (g)	1	DILUTION	READING	CALC. ppm
Set comp	1110	Sut comp	1	5.0	20	4	708	2E32
					ξΛ .			
SPILL PER	IMETER			OVM			SPILL P	ROFILE
				RESULTS				
7			SAMPLE	FIELD HEAD		23/2	+ 23/2	x 5 deep
			ID Sut comp	(ppi	· C/			
]		
	_							
1	il					1		
30.4	ac []							
20'6	500					_	· *	
1 Kenth & Co			I	AB SAMPLI	ES] /«		
Kpit X 图			SAMPLE	ANALYSIS	TIME		\8 \/	
1 XX			ID ID		<u> </u>	 	Y X	
						1	• •	
						-		
				<u> </u>		1		
					<u> </u>]		
			J	<u>L.</u>	<u></u>			

ONSITE:

TRAVEL NOTES: _____ CALLED OUT:



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Elm Ridge Exploration

Sample No.: Sample ID:

Sample Matrix:

Preservative:

Condition:

Soil Cool

Cool and Intact

5 Point Composite

Project #:

Date Reported:

Date Sampled:

Date Analyzed:

Analysis Needed:

10/2/2008

2/23/2009

03056-0211

10/2/2008

TPH-418.1

		Det.
	Concentration	Limit
Parameter	(mg/kg)	(mg/kg)

Total Petroleum Hydrocarbons

2,830

5.0

ND = Parameter not detected at the stated detection limit.

References:

Method 418.1, Petroleum Hydrocarbons, Total Recoverable, Chemical Analysis

of Water and Waste, USEPA Storet No. 4551, 1978.

Comments:

West Bisti Coal 14 COM 1 Earthen Pit

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Sharon Putt

Printed

Greg Crabtree

Printed



CONTINUOUS CALIBRATION EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Cal. Date:

2-Oct-09

Parameter	Standard Concentration mg/L	Concentration Reading mg/L	
ТРН	100		
	200	180	
	500		
	1000		

The accepted percent relative deviation (%RSD) of the calibration factor is less than 20% over the working range.

Sharon Putt

Greg Crabtree

Print Name



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Elm Ridge Resources	Project #:	03056-0136
Sample ID:	W. Bisti Coal 14-1	Date Reported:	10-14-08
Laboratory Number:	47603	Date Sampled:	10-02-08
Chain of Custody:	5469	Date Received:	10-02-08
Sample Matrix:	Soil	Date Analyzed:	10-09-08
Preservative:	Cool	Date Extracted:	10-09-08
Condition:	Intact	Analysis Requested:	BTEX

Parameter	Concentration (ug/Kg)	Det. Limit (ug/Kg)
Benzene	1.7	0.9
Toluene	5.6	1.0
Ethylbenzene	4.6	1.0
p,m-Xylene	4.1	1.2
o-Xylene	3.5	0.9
Total BTEX	19.5	

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	 Percent Recovery
_	Fluorobenzene	97.0 %
	1,4-difluorobenzene	97.0 %
	Bromochlorobenzene	97.0 %

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846,

USEPA, December 1996.

Comments: Earth Pits, 5pt Composite.

Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID: Laboratory Number:	10-09-BT QA/QC 47601	Date Reported: Date Sampled:	10-14-08 N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-09-08
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF: Accept: Rang	%Diff. je 0 - 15%	Blank Conc	Detect. Limit
Benzene	4.7485E+007	4.7580E+007	0.2%	ND	0.1
Toluene	3.9324E+007	3.9403E+007	0.2%	ND	0.1
Ethylbenzene	3.2218E+007	3.2283E+007	0.2%	ND	0.1
p,m-Xylene	6.8987E+007	6.9125E+007	0.2%	ND	0.1
o-Xylene	3.2538E+007	3.2603E+007	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample Du	plicate	%Diff.	Accept Range	Detect: Limit
Benzene	1.6	1.5	6.3%	0 - 30%	0.9
Toluene	6.0	6.2	3.3%	0 - 30%	1.0
Ethylbenzene	2.7	2.8	3.7%	0 - 30%	1.0
p,m-Xylene	6.8	7.1	4.4%	0 - 30%	1.2
o-Xylene	3.8	3.6	5.3%	0 - 30%	0.9

Spike Conc. (ug/Kg) Sam	iple Amo	ount Spiked Spik	ed Sample	% Recovery	Accept Range
Benzene	1.6	50.0	50.6	98.1%	39 - 150
Toluene	6.0	50.0	51.0	91.1%	46 - 148
Ethylbenzene	2.7	50.0	50.7	96.2%	32 - 160
p,m-Xylene	6.8	100	98.8	92.5%	46 - 148
o-Xylene	3.8	50.0	50.8	94.4%	46 - 148

ND - Parameter not detected at the stated detection limit.

References:

Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA,

December 1996

Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using

Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments:

QA/QC for Samples 47601 - 47608, 47618, and 47628.

Analyst

Review



Chloride

Client: Sample ID: Lab ID#:

Elm Ridge Resources W. Bisti Coal 14-1 47603

Project #: Date Reported: 03056-0136 10-14-08

Sample Matrix: Preservative:

Soil Extract Cool

Date Sampled: Date Received: Date Analyzed:

10-02-08 10-09-08

10-02-08

Condition:

Intact

Chain of Custody:

5469

Parameter

Concentration (mg/L)

Total Chloride

670

Reference:

U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.

Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments:

Earth Pits, 5pt Composite.

CHAIN OF CUSTODY RECORD

			Cool Intact			3	\times \	*	\(\times\)							Time	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	, and			
		9F.EX	Stadmod 42			2	×	×	>>							Date	4		·		-
																	9				
	ANALYSIS / PARAMETERS	CHLORIDE				\sim	<u></u>	\sim	\prec												
			(1.814) H9T																		
		HAq																			
	YSIS/	TCLP with H/P															(h			
	ANALY	BCI															1	0			• Tel 505-632-0615
		noinA \ noitsO										ļ									-632
		RCRA 8 Metals					1										B				505
		VOC (Method 8260)				<u> </u>										nature	\	nature	nature	ن	Tel
		BTEX (Method 8021)				- -	~	×	ン				-			Received by: Signature)	€ {	Received by (Signature)	Received by: (Signature)		
1		(3168 kethod 8015)						×	~							ved b	N.	ved b	ved b	エ	A 87.
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				No. Volume Preservative	of Containers	705	1	コー	フ							Time	X-00-5			8	Farmington, NM 87401
		ε				Sludge Aqueous	Sludge Aqueous	Sludge Aqueous	Sludge Aqueous	Sludge Aqueous	Sludge	Sludge	Sludge Aqueous	Sludge Aqueous	Sludge Aqueous	Date					•
)	<u>ر</u> ک.		א	Sample	Matrix	Sludge Aqueou	Sluc	Sludge	Sluc	Slud	Slud	Stud	Slud	Slud	Slud	۵	00				way
:	ocation:					S Sid		(B) Sign	®	Soil	Soil	Soil	Soil	Soil	Soil						S. High
	Project Name / Location	Sampler Name:	lient No.:	3	Lab No.	10726	3:6074 476.02	11:10pm 47603	40724 MODE OF COL												5796 U.S. Highway 64
			Client No.			2	\$	7	2							-					
	\$0 \$0			Sample	Time	MOO!C)O::00								+	}			
	idge Rosanas	•		Sample	Date	t/01	c/a	(0)	0/2							The last	T	(eur	ure)		
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	(-8-	Addre	Phone	Sample No.	Identification	is.i.c	15.6	15-								ished		ished	ished		
10.00		Client Address	Client Phone No.:	Ö	Ď	3 (1)	r I	NO I	3							Relinguished by: (Signature)	7	Reinfluished by:	Relinquished by: (Signature)		



September 21, 2009

Mr. Brad Jones New Mexico Oil Conservation Division 1220 South St. Francis Drive Santa Fe, New Mexico 87505 ZE:11 V EZ 135 6002 CE :10 O CENED 35 Phone (505) 476-3487

RE: WEST BISTI COAL 14 COM 1 & WEST BISTI COAL 15-1 EARTH PIT CLOSURE NOTIFICATIONS

Dear Mr. Brad Jones,

Please accept this letter as an addition to the schedule of closure activities to take place during the week of September 28, 2009 to October 2, 2009. Closure activities will take place at the West Bisti Coal 14 COM 1 well site, owned and operated by Elm Ridge Exploration. The West Bisti Coal 14 COM 1 well site is located in Unit A, Section 14, Township 25N, Range 13W, San Juan County, New Mexico. Closure activities will also take place at the West Bisti Coal 15-1 well site, owned and operated by Elm Ridge Exploration. The West Bisti Coal 15-1 well site is located in Unit G, Section 15, Township 25N, Range 13W, San Juan County, New Mexico. Closure activities at the above mentioned well sites were not completed as scheduled due to inclement weather during the proposed week of closure.

We appreciate the opportunity to be of service. If you have any questions or require additional information, please contact our office at (505) 632-0615.

Respectfully Submitted,

Enviroteon, Inc.

James McDaniel Project Scientist

imcdaniel@envirotech-inc.com

Cc:

Client File No. 03056

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

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											
and the decrease of the state o											
Operator: Elm Ridge Exploration OGRID #: 149052											
Address: P.O. Box 156; Bloomfield, NM 87413											
Facility or well name: West Bisti Coal 14 COM 1											
Facility or well name: West Bisti Coal 14 COM 1 API Number: 3004528914 OCD Permit Number: U/L or Qtr/Qtr A Section 14 Township 25N Range 13W County: San Juan Control of Proposed Positive Letitude 26 406275 Levitede 108 182241 NAD [71027] 1082											
U/L or Qtr/Qtr A Section 14 Township 25N Range 13W County: San Juan											
Center of Proposed Design: Latitude 36.406275 Longitude -108.182241 NAD: □1927 ☑ 1983											
Surface Owner: Federal State Private Tribal Trust or Indian Allotment											
2. Note: Subsection F or G of 19.15.17.11 NMAC Ceased operation prior to August 8th, 2008											
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_12' x W_4' x D_5'											
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											
☐ Lined ☐ Unlined Liner type: Thickness mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other											
Liner Seams:											
Below-grade tank: Subsection I of 19.15.17.11 NMAC											
Volume:bbl Type of fluid: Manufacturer:											
Tank Construction material:											
☐ 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.											

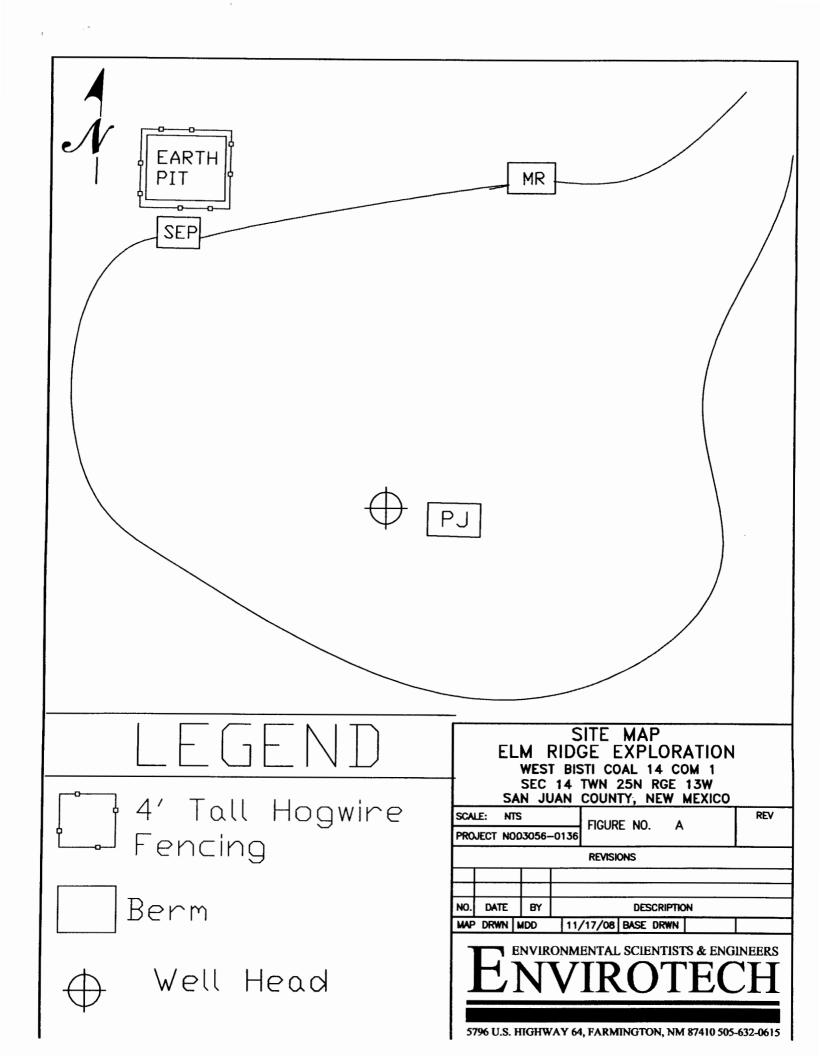
Fencing: Subsection D of 19.15.17.11 NMAC (A. Les to permanent pits, temporary pits, and below-gr. tanks)										
Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)										
Four foot height, four strands of barbed wire evenly spaced between one and four feet										
Alternate. Please specify 4' tall hogwire fencing with pipe railing										
7. 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										
9. 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 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 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. 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).0. 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)	☐ 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) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image										
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.	☐ Yes ☐ No ☐ NA									
NM Office of the State Engineer - iWATERS database search; Visual inspection (certification) of the proposed site Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance	☐ Yes ☐ No									
adopted pursuant to NMSA 1978, Section 3-27-3, as amended.										
Within 500 feet of a wetland.	☐ Yes ☐ No									
Within the area overlying a subsurface mine.										
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map Within a 100 year floodplain										
					Within a 100-year floodplain FEMA map	☐ Yes ☐ No				
	☐ Yes ☐ No									

Oil Conservation Division

Temporary Pits, Emergency Pits, and Below-g. E Tanks Permit Application Attachment Checkli 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
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:
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 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 19.15.17.11 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)
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

Waste Removal Closure For Closed-loop Syste. That Utilize Above Ground Ste Instructions: Please indentify the facility or facilities for the disposal of liquids, drill										
facilities are required. Disposal Facility Name:	enosal Eggility Pormit Number									
	Disposal Facility Permit Number: Disposal 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 H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 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 as 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 disti reau office for consideration of approval. Justi	rict 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	ained 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 obtained from nearby wells										
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 obtained from nearby wells										
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	ant watercourse or lakebed, sinkhole, or playa	☐ Yes ☐ No								
Within 300 feet from a permanent residence, school, hospital, institution, or church in e - 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 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 (certification)	g, in existence at the time of initial application.	☐ 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										
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site										
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								
On-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the followy a check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of Sub Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - Protocols and Procedures - based upon the appropriate requirements of 19.15.17. Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Sub Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill of Soil Cover Design - based upon the appropriate requirements of Subsection H of Re-vegetation Plan - based upon the appropriate requirements of Subsection I of Site Reclamation Plan - based upon the appropriate requirements of Subsection Confirmation Plan - based upon the appropriate requirements of Subsection I of Site Reclamation Plan - based upon the appropriate requirements of Subsection Confirmation Plan - based upon the appropriate requirements of Subsection I of Site Reclamation Plan - based upon the appropriate requirements of Subsection Confirmation Plan - based upon the appropriate requirements of Subsection Confirmation Plan - based upon the appropriate requirements of Subsection Confirmation Plan - based upon the appropriate requirements of Subsection Confirmation Plan - based upon the appropriate requirements of Subsection Confirmation Plan - based upon the appropriate requirements of Subsection Confirmation Plan - based upon the appropriate requirements of Subsection Confirmation Plan - based upon the appropriate requirements of Subsection Confirmation Plan - based upon the appropriate requirements of Subsection Confirmation Plan - based upon the appropriate requirements of Subsection Confirmation Plan - based upon the appropriate requirements of Subsection Confirmation Plan - based upon the appropriate requirements of Subsection Confirmation Plan - ba	nents of 19.15.17.10 NMAC section F of 19.15.17.13 NMAC oriate requirements of 19.15.17.11 NMAC based upon the appropriate requirements of 19.13 NMAC ments of Subsection F of 19.15.17.13 NMAC section F of 19.15.17.13 NMAC cuttings or in case on-site closure standards cannil 19.15.17.13 NMAC	15.17.11 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): Ms. Amy Mackey Title: Administrative Manager								
Signature: Date: 3-2-09								
e-mail address: Telephone: (505) 632-3476 Ext. 201								
20. OCD Approval: Permit Application (including closure plan) Closure Plan (only) OCD Conditions (see attachment)								
OCD Representative Signature; Approval Date: 2/10/10								
Title: 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.								
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. Disposed Facility Names								
Disposal Facility Name: Disposal Facility Permit Number:								
Disposal Facility Name: Disposal Facility Permit Number:								
☐ 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. 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								
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):								
Name (Print): Title:								
Signature: Date:								



EARTHEN PIT CLOSURE PLAN

SITE NAME:

WEST BISTI COAL 14 COM 1
UNIT LETTER A, SECTION 14, TOWNSHIP 25N, RANGE 13W
SAN JUAN COUNTY, NEW MEXICO
LATITUDE 36.406275 LONGITUDE -108.182241

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
PO Box 156
BLOOMFIELD, NEW MEXICO 87413
(505) 632-3476 Ext. 201

JANUARY 2009

EARTHEN PIT CLOSURE PLAN ELM RIDGE EXPLORATION WEST BISTI COAL 14 COM 1 SAN JUAN COUNTY, NEW MEXICO

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Introduction

Elm Ridge Exploration would like to submit a closure plan for the earthen pit at the West Bisti Coal 14 COM 1 well site located in the NE ¼ NE ¼ of Section 14, Township 25N, Range 13W, San Juan 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 permanent unlined pit at the West Bisti Coal 14 COM 1 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, will close all former earthen pits prior to the closure date agreed upon by the New Mexico Oil Conservation Division of December 31, 2009.
- 2) In accordance with of Subsection A of 19.15.17.13 NMAC, Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will close any earthen pits at a date the division requires because of imminent danger to fresh water, public health or the environment.
- 3) Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will close earthen pits first which seem to pose a greater risk to fresh water, public health, or the environment. This will be determined by the locations proximately to surface water sources and distance to groundwater.
- 4) No less than 60 days prior to any earthen pit closure activities, Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will provide written notification to the Santa Fe NMOCD office as well as a schedule of on-site activities, as in accordance with 19.15.17.13 Subsection J Paragraph (3) NMAC.
- 5) No less than 24 hours and no greater than one (1) week prior to earthen pit removal Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will provide written notification to the appropriate surface owner as well as a schedule of on-site activities, 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 earthen pit. 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 Closure activities that will take place on tribal land will have notifications sent by certified mail, return receipt requested, to the appropriate tribal 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.

- 6) Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will remove all liquids, and/or sludge, to visual extents, prior to closure sampling. 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 C Paragraph (1) NMAC.
- 7) Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will remove all on-site equipment associated with this earthen pit unless it is required for some other purpose, as in accordance with 19.15.17.13 Subsection C Paragraph (2) NMAC. The equipment that meets the requirements of 19.15.9.712 Subsection A NMAC and 19.15.9.712 Subsection D Paragraph (1) will be disposed of at San Juan County Regional Landfill. Waste that is classified by 19.15.9.712 Subsection D Paragraph (2) will be sampled accordingly to determine acceptance of this material at the San Juan County Regional Landfill. Waste that is unable to be accepted at the San Juan County Regional Landfill will be submitted to the OCD on a case-by-case basis in accordance with Paragraph (3) of Subsection D of 19.15.9.712.
- 8) Once the earthen pit is removed to visual extents of contamination, a five (5) point composite sample will be collected from directly below the liner(s) or at native soil. Additional discrete samples will be collected from any area that is wet, discolored or show 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 C Paragraph (3) NMAC.
- 9) 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 C Paragraph (3) 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 (4) of Subsection C 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 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, recontour 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 re-seed 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, 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 (4) of Subsection C of 19.15.17.13 NMAC.
- ii. Activities beyond this point will be in accordance with 19.15.3.116 NMAC and 19.15.11.19 NMAC.

REPORTING

Elm Ridge Exploration will submit a closure report within 60 days following the earthen pit 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

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.

- 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.
- 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.

- 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.