District I 1625 N. French Dr., Hobbs, NM 88240 District II

1301 W. Grand Avenue, Artesia, NM 88210

District III 1000 Rio Brazos Road, Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505

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

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

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

Name of Company: Elm Ridge Exploration Address: Pob Sto 156, Bloom filed, NM 87413 Surface Owner: Federal Wineral Owner: Lease No.: SF 078064 Surface Owner: Federal Wineral Owner: Loca TION OF RELEASE Unit Letter Section 1 Township 25N Range Feef from the 1850 Feef from the 1900 FRLEASE Unit Letter Section 1 Township 125N Range Feef from the 1850 Feef from the 1900 FRLEASE Unit Letter Section 1 Township 125N Range Feef from the 1900 FRLEASE Unit Letter Section 1 Township 125N Range Feef from the 1900 FRLEASE Type of Release: Produced Water Source of Release: Earth Fit Date and Hour of Occurrence: Date and Hour of Discovery: NA Historical Was Immediate Notice Given? Was a Watercourse Reached? Yes No Not Required By Whom? Was a Watercourse Reached? Yes No Froblem 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-as becausered to no longer drain into an earthen pit, but instead into an above ground storage tank (AST). Describe Area Affected and Cleanup Action Taken.* Describe Area Affected and Cleanup Action Taken. And approximately one (1) yard of "production sludge" was removed from the earthen pit, and approximately one (1) yard of "production sludge" was removed from the earthen pit, and approximately one (1) yard of "production sludge" was removed from the earthen pit one can be invisited by the Standards of 100 mg/kg 1PH, 0.2 mg/kg benzene, 50 mg/kg BTEX and 250 mg/kg total chlorides, one-finds, and approximately one (1) yard of "production sludge" was removed from the earthen pit, and approximately one (1) yard of "production sludge" was removed from the earthen pit, and approximately one (1) yard of "production sludge" was removed from the earthen pit, and approximately one (1) yard of "production sludge" was removed from the earthen pit, and approximately one (1) yard of "production sludge" was removed from the earthen pit, and approximately one (1) yard of "production sludge" was rem							OPERA'	ГOR		Initia	ıl Report	\boxtimes	Final Report
Facility Name: Pete Morrow #1 Facility Type: Gas Well													
Lease No.: SF 078064 LOCATION OF RELEASE				, NM 874	113								
Unit Letter L Section 1 Township 125N Range	Facility Nar	ne: Pete M	forrow #1			1	Facility Typ	e: Gas Well					
Unit Letter L	Surface Ow	ner: Feder	al		Mineral C)wner:			L	ease N	lo.: SF 0780	064	
Unit Letter L					LOCA	TION	OF REI	LEASE					
Latitude 36.428006 Longitude -108.067956 NATURE OF RELEASE Type of Release: Produced Water Volume of Release: Unknown Of Cocurrence: Date and Hour of Discovery: NA Historical	Unit Letter	Section	Township	Range				T	East/West	Line	County		
Type of Release: Produced Water		I .				1			I				
Source of Release: Produced Water		<u> </u>		1	Latitude 36.4	28006	Longitu	ıde <u>-108.06795</u>	<u> </u>				
By Whom? Was a Watercourse Reached? Was 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 akered 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 (1) yard of 'production sludge' was removed from the earthen pit, and approximately one (1) yard of 'production sludge' was removed from the earthen pit, 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. Thereby 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 for report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the edvironment. 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 for adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, MOCD 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: Printed Name: Ms. Amy Mackey					NAT	URE	OF REL	EASE					
Was Immediate Notice Given? Yes No Not Required If YES, To Whom? Yes Date and Hour If YES, Volume Impacting the Watercourse. If YES, Volume Impacting the Watercourse was Impacted, Describe Fully.* If YES, Volume Impacting the Watercourse. If YES, Volume Impacting the Watercourse was Impacted, Describe Fully.* If YES, Volume Impacting the Watercourse. If YES, Volume Impacting the Watercourse							Volume of Release: Unknown Volume Recovered: Unknown						
By Whom? Was a Watercourse Reached? Yes No If YES, Volume Impacting the Watercourse. If YES, Volume Impacti							Historical		ee: Da	ite and l	Hour of Disc	overy:	NA
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Printed Name: Ms. Amy Mackey	~igilatul vi	\mathcal{I}	/				Annroyad by	District Supervise	Or.				
Title: Administrative Manager Approval Date: Expiration Date:	Printed Name	: Ms. Amy	Mackey					District Supervis	oi.				
	Title: Admin	istrative Ma	anager				Approval Da	te:	Exp	iration l	Date:		
E-mail Address: amackey1@elmridge.net Conditions of Approval: Attached	E-mail Addre	ss: amacke	y1@elmridge	.net			Conditions o	f Approval:			Attached		
111116	Data	1/4/	59	Dho: 5	05 622 2476 P	201					Attached		
Date: Phone: 505-632-3476 Ext 201 Attach Additional Sheets If Necessary			<u> </u>		03-032-34/6 EXT	201							11111

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: Pete Morrow 1
API Number: 3004527240 OCD Permit Number:
U/L or Qtr/Qtr L Section 1 Township 25N Range 12W County: San Juan
Center of Proposed Design: Latitude <u>36.428006</u> Longitude <u>-108.067956</u> NAD: □1927 ☑ 1983
Surface Owner: Federal State Private Tribal Trust or Indian Allotment
2. ☑ Pit: Subsection F or G of 19.15.17.11 NMAC
Temporary: Drilling Workover
Permanent ☐ Emergency ☐ Cavitation ☐ P&A
☐ Lined ☑ Unlined Liner type: Thickness mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other
☐ String-Reinforced
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L_8'_x W_8'_x D_1'_
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: Thicknessmil LLDPE HDPE PVC Other
Liner Seams: Welded Factory Other
4.
Below-grade tank: Subsection I of 19.15.17.11 NMAC
Volume:bbl Type of fluid:
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 (Applies to permanent pits, temporary pits, and below-grade tanks) Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church) Four foot height, four strands of barbed wire evenly spaced between one and four feet Alternate. Please specify	hospital,
Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) Screen Netting Other Monthly inspections (If netting or screening is not physically feasible)	
 Signs: Subsection C of 19.15.17.11 NMAC □ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers ☑ Signed in compliance with 19.15.3.103 NMAC 	
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.	office for
Siting Criteria (regarding permitting): 19.15.17.10 NMAC Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accept material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the approoffice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of a Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	priate district pproval.
Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - 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. 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

Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Design Plan - based upon the appropriate requirements of 19.15.17.12 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 Reviewels Appropriate (the leave of design) - APIN leaders are appropriate to the propriate requirements of Paragraph (4) of Subsection B of 19.15.17.9 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 Quality Control/Quality Assurance Construction and Installation Plan Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC Preeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 19.15.17.13 NMAC
Proposed Closure: 19.15.17.13 NMAC Instructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed closure plan. Type: Drilling Workover Emergency Cavitation P&A Permanent Pit Below-grade Tank Closed-loop System Alternative Proposed Closure Method: Waste Excavation and Removal Waste Removal (Closed-loop systems only) On-site Closure Method (Only for temporary pits and closed-loop systems) In-place Burial On-site Trench Burial Alternative Closure Method (Exceptions must be submitted to the Santa Fe Environmental Bureau for consideration)
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

Form C-144

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.					
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 service and operations? Yes (If yes, please provide the information below) No					
Required for impacted areas which will not be used for future service and operations: Soil Backfill and Cover Design Specifications based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	2				
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 districtions of exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justif 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 ☐ NA				
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data 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				

Operator Application Certification: I hereby certify that the information submitted with this application is true, accu	rate and complete to the best of my knowledge and belief
Name (Print):	Title:
Signature:	Date:
E-mail address:	Telephone:
20. OCD Approval: Permit Application (including closure plan) Closure F	Plan (only) OCD Conditions (see attachment)
OCD Representative Signature:	Approval Date:
Title:	OCD Permit Number:
Closure Report (required within 60 days of closure completion): Subsection Instructions: Operators are required to obtain an approved closure plan prior The closure report is required to be submitted to the division within 60 days of section of the form until an approved closure plan has been obtained and the c	to implementing any closure activities and submitting the closure report. the completion of the closure activities. Please do not complete this
22. Closure Method: Waste Excavation and Removal ☐ On-Site Closure Method ☐ Altern ☐ If different from approved plan, please explain.	ative Closure Method Waste Removal (Closed-loop systems only)
Closure Report Regarding Waste Removal Closure For Closed-loop System Instructions: Please indentify the facility or facilities for where the liquids, dri two facilities were utilized. Disposal Facility Name:	Disposal Facility Permit Number: NM-01-0011 Disposal Facility Permit Number: ni areas that will not be used for future service and operations?
Closure Report Attachment Checklist: _Instructions: Each of the following it mark in the box, that the documents are attached. □ Proof of Closure Notice (surface owner and division) See Attached □ Proof of Deed Notice (required for on-site closure) □ Plot Plan (for on-site closures and temporary pits) □ Confirmation Sampling Analytical Results (if applicable) See Attached □ Waste Material Sampling Analytical Results (required for on-site closure) □ Disposal Facility Name and Permit Number Envirotech Landfarm #2 N □ Soil Backfilling and Cover Installation See Attached □ Re-vegetation Application Rates and Seeding Technique See Attached □ Site Reclamation (Photo Documentation) See Attached □ On-site Closure Location: Latitude Longit	JM-01-0011
Operator Closure Certification: I hereby certify that the information and attachments submitted with this closure belief. I also certify that the closure complies with all applicable closure required Name (Print): Ms. Amy Mackey Signature:	Title:Administrative Manager Date:
E-mail address: <u>amackey1@elmridge.net</u>	Telephone: (505) 632-3476 ext. 201

Elm Ridge Exploration Pete Morrow #1 Earth Pit Closure 03056-0202 Closure Date: 9/8/09

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 Pete Morrow #1 well site is September 8, 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 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 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
 - 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*.
- 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 earth 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 recieve notice at least 24 hours prior to the beginning of closure activities.

Notification was provided to the Bureau of Land Management on September 2, 2009; see attached Sundry Notice and 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 8, 2009, approximately one (1) cubic yard 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 Pete Morrow #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	ТРН
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	60 mg/kg	64 mg/kg

- 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.

Elm Ridge Exploration Pete Morrow #1 Earth Pit Closure 03056-0202 Closure Date: 9/8/09

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).

- 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 Pete Morrow #1 Earth Pit Closure 03056-0202 Closure Date: 9/8/09

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 8, 2009.

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Fedex US Airbill B 6693 8147 6355	1 From the properties from the properties of the	Sander's James McDarie Phone (365) 632-0615	Address 3775 HIGHWAY 64	CAN FARMINGTON SAME NIM ZP B7401	2 Your International Billing Reference 03056-012 CP 1 6 Sp. 3 To Recipient: Bread Jones none (505) 476-3487	il Casernation Division	Address (220 S. S. Francis Drive	7565	0401655191	Store your addresses at fedex.com Simplify your skipping. Manage your account. Access elf the wolk you need.



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	Risti 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,

ENVIROTEGH, INC.

James McDaniel Project Scientist

incolaniel@envirotech-inc.com

ELM RIDGE EXPLORATION

Amy Mackey

Administrative Manager mackey | @cimridge.net

Attachments: Closure Schedule

i796 US Highway 64, Farmington, NM 87401 Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 info@envirotech-inc.com envirotech-inc.com

August 2009

Sunday	Monday	Tuesday	Wed	Thurs	Friday	Saf
						1
2	3	4	5	9	7	8
6	10 Bisti Coal 20-2 Bisti Coal 21-1 Bisti Coal 21 COM 2 Bisti Coal 22-2 Bisti Coal 28-1	11 Bisti Coal 20-2 Bisti Coal 21-1 Bisti Coal 21 COM 2 Bisti Coal 22-2 Bisti Coal 28-1	12 Bistî Coel 20-2 Bistî Coel 21-1 Bistî Coel 21 COM 2 Bistî Coel 22-2 Bistî Coel 28-1	13 Bisti Coal 20-2 Bisti Coal 21-1 Bisti Coal 21 COM 2 Bisti Coal 22-2 Bisti Coal 28-1	14 Blati Coal 20-2 Blati Coal 21-1 Blati Coal 21 COM 2 Blati Coal 22-2 Blati Coal 28-1	15
16	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	18 Blest Coal 29-1 Blest Coal 29-2 Blest Coal 31-1 Blest Coal 31-1 Blest Coal 4-1 Blest Coal 4 COM 2 Blest Coal 5 COM 1 Blest Coal 5 COM 2 Blest Coal 6 COM 2	H9 Bisti Coel 29-1 Bisti Coel 30 COM 1 Bisti Coel 31-1 Bisti Coel 4-1 Bisti Coel 4-COM 2 Bisti Coel 5 COM 1 Bisti Coel 5 COM 2 Bisti Coel 5 COM 2	20 Bisti Coal 29-1 Bisti Coal 30-2 Bisti Coal 31-1 Bisti Coal 4-1 Bisti Coal 4-1 Bisti Coal 5 COM 1 Bisti Coal 5 COM 1	21 Bisti Coal 29-1 Bisti Coal 29-2 Bisti Coal 30 COM 1 Bisti Coal 4-1 Bisti Coal 4 COM 2 Bisti Coal 5 COM 1 Bisti Coal 1 COM 2	22
23	24 Bisti Coel 6-1 Bisti Coel 6-2 Bisti Coel 7-1 Bisti Coel 7-1 Bisti Coel 8 COM 1 Bisti Coel 8 COM 2 Bisti Coel 9-1 Bisti Coel 9-1	25 Bisti Coal 6-1 Bisti Coal 6-2 Bisti Coal 7-1 Bisti Coal 7-0 Bisti Coal 8 COM 1 Bisti Coal 8 COM 1 Bisti Coal 9-1 Bisti Coal 9-1	26 Bisti Coal 6-1 Bisti Coal 6-2 Bisti Coal 7-1 Bisti Coal 7 COM 2 Bisti Coal 8 COM 1 Bisti Coal 9-1 Bisti Coal 9-1	Bisti Coal 6-1 Bisti Coal 6-2 Bisti Coal 7-1 Bisti Coal 7-1 Bisti Coal 8 COM 1 Bisti Coal 9-1 Bisti Coal 9 COM 2	28 Bisti Coal 6-1 Bisti Coal 6-2 Bisti Coal 7-1 Bisti Coal 7 COM 2 Bisti Coal 8 COM 1 Bisti Coal 9-1 Bisti Coal 9 COM 2	29
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Sun		9	13	20	27



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FAQs

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Search Results

Label/Receipt Number: 7007 1490 0000 5398 9381

Service(s): Certified Mall Status: Delivered

Your item was delivered at 10:20 AM on September 2, 2009 in FARMINGTON, NM 87401.

Track & Confirm

Enter Label/Receipt Number.

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Notification Options Track & Confirm by er Get current event inform	nail nation or updates for you r item sent	CERTIFII (Domestic Ma	
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http://trkcnfrm1.smi.usps.com/PTSInternetWeb/InterLabelInquiry.do 3054 - 02200909-03



August 31, 2009

Project No. 03056-0202

Mr. Mark Kelly Bureau of Land Management 1235 La Plata Highway, Suite A Farmington, New Mexico 87401

Phone: (505) 599-8900

RE: Pete Morrow 1 Earth Pit Closure Notification

Dear Mr. Kelly,

Please accept this letter and attached Sundry Notice as the necessary surface owner notification for earth pit closure activities at the Pete Morrow 1 well site, owned and operated by Elm Ridge Exploration. The Pete Morrow 1 well site is located in Unit L, Section 1, Township 25N, Range 12W, San Juan County, New Mexico. Closure activities are scheduled to begin on September 7, 2009 and continue through September 11, 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,

ENVIROTECH, INC.

James McDaniel
Project Scientist

imcdaniel@envirotech-inc.com

Enclosure:

Sundry Notice

Cc:

Client File No. 03056

Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPRO	VED
OMB No. 1004-	0137
Everinee Into 31	2010

BURI	EAU OF LAND MANAC	EMENI		NM-070322	
SUNDRY N	OTICES AND REPORT	'S ON WELLS		6. If Indian, Allottee or	Tribe Name
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.					
SUBMIT	IN TRIPLICATE - Other ins	tructions on page 2.		7. If Unit of CA/Agree	ment, Name and/or No.
1. Type of Well Oil Well Gas W	/ell Other	-		8. Well Name and No. Pete Morrow 1	
2. Name of Operator Elm Ridge Exploration			····	9. API Well No. 30-045-27240	4
3a. Address	l3b.	Phone No. (include area c	ode)	10. Field and Pool or E	xploratory Area
PO Box 158 Bloomfield, NM 87413	1	05) 632-3476	,		
4. Location of Well (Footage, Sec., T., I 1850FSL 1190FWL, L-1-25N-12W, Lat. 38.428	R., M., or Survey Description) 00626 long108.0679555			11. Country or Parish, San Juan County, N	
12, CHEC	K THE APPROPRIATE BOX(I	ES) TO INDICATE NATU	RE OF NOTE	CE, REPORT OR OTHE	ER DATA
TYPE OF SUBMISSION		Т	YPE OF ACT	ION	
Notice of Intent	Acidize	Deepen Fracture Treat		uction (Start/Resume)	Water Shut-Off Well Integrity
	Alter Casing Casing Repair	New Construction	=	emplete	Other Closure of an Earth
Subsequent Report	Change Plans	Plug and Abandon	=	porarily Abandon	Pit
Final Abandonment Notice	Convert to Injection	Plug Back		r Disposal	
Elm Ridge Exploration plans to begin Closure activities are scheduled to be a schedu	being on Monday, September	7, 2009 and last through			fications have been made.
Ms. Amy Mackey	The correct Name of Theory	Title Admin	istrativa M ar	nager	
		TIED / WITHIN			
Signature		Date 08/31/	2009		
	THIS SPACE FO	OR FEDERAL OR S	TATE OF	FICE USE	
Approved by					
Conditions of approval, if any, are attache that the applicant holds legal or equitable entitle the applicant to conduct operations	title to those rights in the subject le				Date
Title 18 U.S.C. Section 1001 and Title 43			and willfully	to make to any departmen	nt or agency of the United States any false

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13 - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment.

NOTICES

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and grantingapproval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

ELM RIDGE EXPLORATION PETE MORROW #1 SEC 1, Twp 25N, RGE 12W PROJECT NO. 03056-0202



Photo 1: Pete Morrow #1 Well Site



Photo 2: Excavated Area After Backfilling and Recontouring



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Elm Ridge Exploration

03056-0202

Sample No.:

1

Project #: Date Reported:

Sample ID:

5pt Composite

9/30/2009

TPH-418.1

Sample Matrix:

Soil

9/8/2009

Preservative:

Cool

Date Analyzed: 9/8/2009

Date Sampled:

Analysis Needed:

Condition:

Cool and Intact

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

Total Petroleum Hydrocarbons

64

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:

Pete Morrow #1

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Toni McKnight

Printed

James McDaniel

Printed



CONTINUOUS CALIBRATION EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Cal	Date:
C a	Dalc.

8-Sep-09

Parameter	Standard Concentration mg/L	Concentration Reading mg/L	
ТРН	100		
	200	187	
	500		
	1000		

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

Analyst

Date

Toni McKnight

Print Name

R∕eview .

___*L*

James McDaniel

Print Name



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ElmRidge	Project #:	03056-0202
Sample ID:	5pt Composite	Date Reported:	09-11-09
Laboratory Number:	51569	Date Sampled:	09-08-09
Chain of Custody:	7918	Date Received:	09-08-09
Sample Matrix:	Soil	Date Analyzed:	09-10-09
Preservative:	Cool	Date Extracted:	09-09-09
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	96.0 %
	1,4-difluorobenzene	96.0 %
	Bromochlorobenzene	96.0 %

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 Pit Closure / Pete Morrow #1

Analyst

Mustum Waeters
Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	09-10-BT QA/QC	Date Reported:	09-11-09
Laboratory Number:	51489	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	09-10-09
Condition:	N/A	Analysis:	BTEX

		Detect			
Carlot Maria saturita de la companio del companio della companio d	a		N. A. Santa and S.	COME	LIM
Benzene	2.0215E+006	2.0255E+006	0.2%	ND	0.1
Toluene	1.9175E+006	1.9213E+006	0.2%	ND	0.1
Ethylbenzene	1.7328E+006	1.7363E+006	0.2%	ND	0.1
,m-Xylene	4.4900E+006	4.4990E+006	0.2%	ND	0.1
o-Xylene	1.6741E+006	1.6775E+006	0.2%	ND	0.1

		Alto Congress	34.0E	Access Fingle	Delect Limit
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

	SSIC SCC 2 Manie	unt Boliet - Sal	er Wape.	Macercy	Accept Range
Benzene	ND	50.0	49.4	98.8%	39 - 150
Toluene	ND	50.0	48.7	97.4%	46 - 148
Ethylbenzene	ND	50.0	48.3	96.6%	32 - 160
p,m-Xylene	ND	100	103	103%	46 - 148
o-Xylene	ND	50.0	46.8	93.6%	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 51489 - 51492, 51560, and 51567 - 51571.



Chloride

60

Project #: Client: ElmRidge 03056-0202 Sample ID: 5pt Composite Date Reported: 09-11-09 Lab ID#: 51569 Date Sampled: 09-08-09 Sample Matrix: Soil Date Received: 09-08-09 Preservative: Cool Date Analyzed: 09-10-09 Condition: Intact Chain of Custody: 7918

Parameter Concentration (mg/Kg)

Total Chloride

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 Pit Closure / Pete Morrow #1.

Musthem Waeters Review

CHAIN OF CUSTODY RECORD

	:	e Cool e Intact		 _										Time /6:17				m 28-0807
ANALYSIS / PARAMETERS		1000.6	- Juwe											9/8/09			_	ACCENT Printing • Form 28-0807
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1. 1. 1. 1. 1. 1 PAGENO: ____OF ENVIRONMENTAL SPECIALIST: TCMDATE STARTED: 2/8/09 LATN36 25.6816 5796 U.S. Many 64, Farmington, MR 67491 DATE FINISHED: 9/8/109 LONG:W (00° 41805 FIELD REPORT: BGT / PIT CLOSURE VERIFICATION PERMANENT PIT: X BGT: Morrow TEMP PIT: LOCATION: NAME: / ofe WELL #: SEC: RNG: 12 -LEGAL ADD: UNIT: TWP:25 N PM: QTR/FOOTAGE: (ESO 1190 Ful CNTY: San Juan ST: Ne L Mexico FSL FT. DEEP CUBIC YARDAGE: NA FT. EXCAVATION APPROX: \mathbf{X} (た け REMEDIATION METHOD: DISPOSAL FACILITY: Candform nullatech BGT / PIT VOLUME: LAND OWNER: SF-078064API: dera l DOUBLE-WALLED, WITH LEAK DETECTION: / Earth CONSTRUCTION MATERIAL: LOCATION APPROXIMATELY: FROM WELLHEAD **DEPTH TO GROUNDWATER:** TEMPORARY PIT - GROUNDWATER 50-100 FEET DEEP BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, GRO & DRO FRACTION (8015) ≤ 500 mg/kg, TPH (418.1) ≤ 2500 mg/kg, CHLORIDES ≤ 500 mg/kg TEMPORARY PIT - GROUNDWATER ≥100 FEET DEEP BENZENE ≤ 0.2 mg/kg, BTEX ≤ 50 mg/kg, GRO & DRO FRACTION (8015) ≤ 500 mg/kg, TPH (418.1) ≤ 2500 mg/kg, CHLORIDES ≤ 1000 mg/kg PERMANENT PIT OR BGT BENZENE \leq 0.2 mg/kg, BTEX \leq 50 mg/kg, TPH (418.1) \leq 100 mg/kg, CHLORIDES \leq 250 mg/kg **FIELD 418.1 ANALYSIS** SAMPLE I.D. LAB NO. WEIGHT (g) CALC. (mg/kg) TIME mL FREON | DILUTION | READING 9:13 200 STD 10: Ya 3 4 5 PERIMETER FIELD CHLORIDES RESULTS **PROFILE** SAMPLE CALC. READING ID (mg/kg) Spt Com PID RESULTS RESULTS SAMPLE ID (ppm) D-C LAB SAMPLES NOTES: SAMPLE ID ANALYSIS RESULTS BENZENE **BTEX** GRO & DRO CHLORIDES WHO ORDERED WORKORDER #

⊴envirotech

Bill of Lading

34193

DATE 7-8.09 JOB# U2056 " TRANSPORTING COMPANY MANIFEST # PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401 COMPLETE DESCRIPTION OF SHIPMENT

DRIVER SIGNATURE 78/1509 Golman 78 12:13 Letholism 78 1:46 9dm 9 2009 TRK# TIME ENTERED SEP COMPANY なれ エナエ 7 NOTES: BBLS ١ ١ YDS 12 F20 12 1/-1/ アイ GRID MATERIAL 501 of soil went to 12 08056-0203 Cont Z DESTINATION EMPLOYEE: LANDFARM IF- II 7 POINT OF ORIGIN Pete Marion ElmRidge 268 CHLORIDE TEST PAINT FILTER TEST RESULTS: 47 7 LOAD Ö

"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 COMPANY SIMPOSPE that no additional materials have been added." NAME JOHN MOKING

COMPANY CONTACT INDEA

PHONE 327-27/

ďΩ

SIGNATURE

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

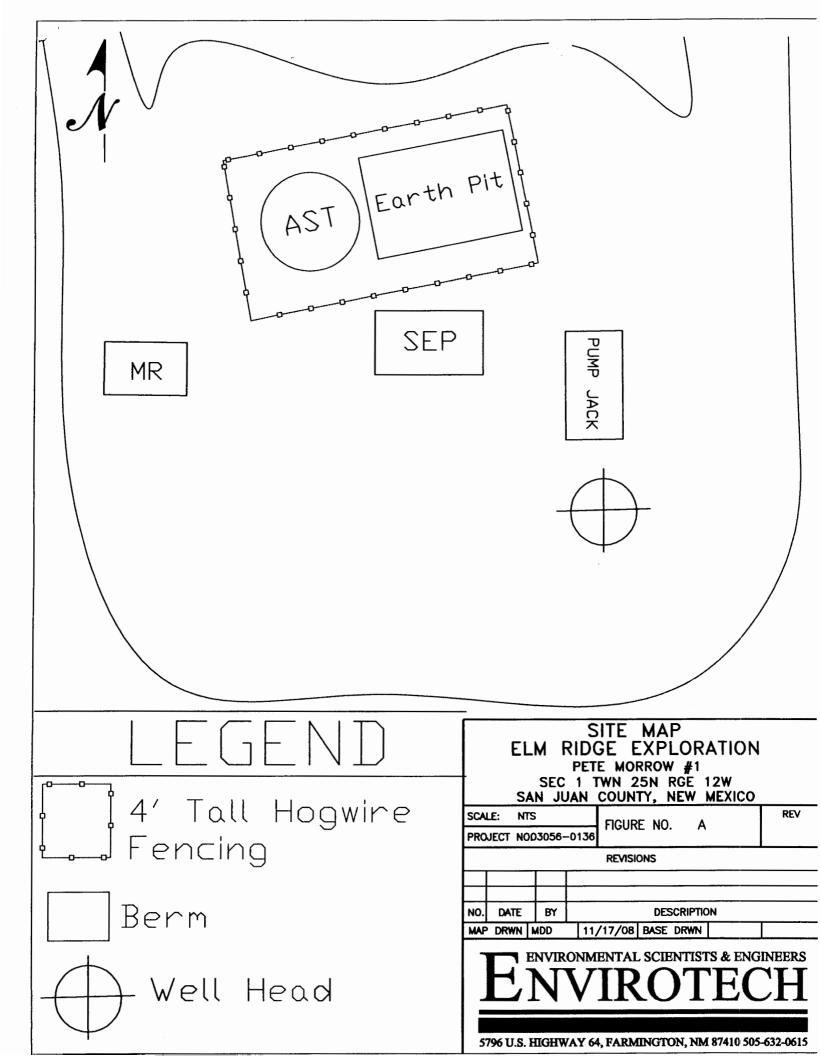
Permit of a pit, closed-loop system, below-grade tank, or proposed Closure of a pit, closed-loop system, below-grade tank, or proposed Modification to an existing permit Closure plan only submitted for an existing permitted or non-permit below-grade tank, or proposed alternative method	d alternative method						
Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-gr	rade 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 environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental a							
Operator: Elm Ridge Exploration OGRID #: 149	9052						
Address: P.O. Box 156; Bloomfield, NM 87413							
Facility or well name: Pete Morrow 1							
API Number: 3004527240 OCD Permit Number:							
U/L or Qtr/Qtr L Section 1 Township 25N Range 12W County: San Ju	an .						
Center of Proposed Design: Latitude 36.428122 Longitude -108.067931 NAD: □1927 ☑ 19	983 B Z						
Surface Owner; ☑ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment	5 0						
	rior to Jape 16, 2608						
Temporary: Drilling Workover	D O						
Permanent Emergency Cavitation P&A	≅						
☐ Lined ☑ Unlined Liner type: Thicknessmil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other	21						
☐ String-Reinforced							
Liner Seams: Welded Factory Other Volume: bbl Dimension	ns: L_8' x W_6'_x D_4'_						
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 p intent)	rior approval of a permit or notice of						
☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other							
☐ Lined ☐ Unlined Liner type: Thickness mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other							
Liner Seams: Welded Factory Other							
Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume:bbl Type of fluid: Tank Construction material: Secondary containment with leak detection Visible sidewalls, liner, 6-inch lift and automatic overflow shut- Visible sidewalls and liner Visible sidewalls only Other Liner type: Thicknessmil HDPE PVC Other							
5. Alternative Method:	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1						
Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau	other for consideration of approval.						

Fencing: Subsection D of 19.15.17.11 NMAC (2. dies to permanent pits, temporary pits, and below-g, 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' pipe railing with hogwire fencing						
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						
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 s material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate 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 page 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)	☐ Yes ☐ No					
 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					
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.						
Within an unstable area. - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological	Yes No					
Society; Topographic map Within a 100 year floodplain	Yes No					
Within a 100-year floodplain. - FEMA map	☐ Yes ☐ No					
	☐ Yes ☐ No					

Temporary Pits, Emergency Pits, and Below-, e Tanks Permit Application Attachment Check! 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 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)
15. 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 Syst	
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 I 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. Just 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 ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data 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. Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cann 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	15.17.11 NMAC

•							
Operator Application Certification: I hereby certify that the information submitted with this application is	is true, accurate and complete to the best of my knowledge and belief.						
Name (Print): Ms/Amy Mackey/	Title: Administrative Manager						
Signature:	Date:						
e-mail address: amackey1@elmridge.net	Telephone:(505) 632-3476 Ext. 201						
20. OCD Approval: Permit Application (including blosure plan)	Closure Plan (only) OCD Conditions (see attachment)						
OCD Representative Signature:	Approval Date: Z/(0/(¿)						
Title: Environment Frysler	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 If different from approved plan, please explain.	☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)						
	op Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than Disposal Facility Permit Number:						
Disposal Facility Name:	Disposal Facility Permit Number:						
Yes (If yes, please demonstrate compliance to the items below)							
Required for impacted areas which will not be used for future service Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	and operations:						
24.							
Closure Report Attachment Checklist: Instructions: Each of the 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 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							
25.							
	his closure report is true, accurate and complete to the best of my knowledge and						
Name (Print): Title:	ure requirements and conditions specified in the approved closure plan.						
Signature:							
e-mail address:	elenhone						



EARTHEN PIT CLOSURE PLAN

SITE NAME:

PETE MORROW #1 UNIT LETTER L, SECTION 1, TOWNSHIP 25N, RANGE 12W SAN JUAN COUNTY, NEW MEXICO LATITUDE 36.428122 LONGITUDE -108.067931

SUBMITTED TO:

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

SUBMITTED BY:

Ms. Amy Mackey
ELM RIDGE EXPLORATION
P.O. Box 156
BLOOMFIELD, NEW MEXICO 87413
(505) 632-3476 Ext. 201

JANUARY 2009

EARTHEN PIT CLOSURE PLAN ELM RIDGE EXPLORATION PETE MORROW #1 SAN JUAN COUNTY, NEW MEXICO

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<u>143 911110</u>	

INTRODUCTION

Elm Ridge Exploration would like to submit a closure plan for the earthen pit at the Pete Morrow #1 well site located in the NW ¼ SW ¼ of Section 1, Township 25N, Range 12W, 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 Pete Morrow #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.

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

* Attach Additional Sheets If Necessary

State of New Mexico Energy Minerals and Natural Resources

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

Form C-1 Revised October 10, 2

Submit 2 Copies to appropri District Office in accorda with Rule 116 on b side of fc

Palassa Natification and Corrective Action

			Keit	ease mound	catioi		rrecuve A	CHOII				
						OPERA	ГOR		Initia	al Report		Re
Name of Co	ompany: E	lm Ridge Ex	ploration			Contact: Amy Mackey						
		, Bloomfield	l, NM 874	113		Telephone No.: (505) 632-3476 Ext 201						_
Facility Na	me: Pete M	forrow #1				Facility Type: Gas Well						
Surface Ow	ner: Feder	al		Mineral (Owner:				Lease N	lo.: SF 0780	64	_
				LOCA	ATIO	N OF REI	LEASE					
Unit Letter L	Section 1	Township 25N	Range 12W	Feet from the 1850	North/	South Line FSL	Feet from the 1190	1	est Line WL	County San Juan		
				Latitude 36.4			de <u>-108.06795</u>	<u>56</u>				
CT CD I		1 777 .		NAT	URE	OF RELI		Т	X7-1 D	Second II		_
Type of Rele Source of Re				· · · · · · · · · · · · · · · · · · ·		Volume of Release: Unknown Date and Hour of Occurrence: Date and Hour of Discovery: NA						
Source of Release. Latti 1 it						Historical	our or occurrence	.	Date and	Trour or Disco	1101y.1111	
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required					equired	If YES, To	Whom?					_
By Whom?						Date and H	our					_
Was a Watercourse Reached?						If YES, Volume Impacting the Watercourse.						
			Yes 🛚				_				·	
If a Watercou	irse was Imp	pacted, Descri	ibe Fully.*									
	ter from a ga	as well at the	above mer	Taken.* ationed location f an above ground s			to an earthen pit	on location	on. The w	ell has been a	ltered to no	_
composite san via USEPA M 4500B. The s	as removed : nple was co fethod 418. sample retur	from the earth llected from b l, and in Envi ned results be	nen pit, and beneath the irotech's la clow the 'P	en.* I approximately of approximately of approximately was resolution benefit Rule' standard red. Analytical r	emoved zene and s of 100	. The sample BTEX via U mg/kg TPH,	was analyzed in SEPA Method 80 0.2 mg/kg benze	the field 021 and f	for total p or total ch	etroleum hydi Iorides via U	rocarbons (T SEPA Metho	PH
regulations all public health	operators a or the environ perations had ment. In ad	are required to conment. The ave failed to a dition, MMO	report and acceptance dequately CD accept	is true and completed of a C-141 repoint of a C-141 repointed and reasonable of a C-141 repointed of a C-141 repoi	elease no ort by the emediate	otifications and NMOCD made contamination	d perform correct rked as "Final Roon that pose a three the operator of the	etive action eport" do eat to gro responsib	ns for rele es not reli und water ility for co	eases which meeve the operate, surface water ompliance with	nay endanger tor of liability er, human hea th any other	y
Signature:						OIL CONSERVATION DIVISION						
Printed Name:	Ms. Amy !	/ Mackey			A	Approved by District Supervisor:						
Title: Adminis	strative Man	nager			F	Approval Date):	E	xpiration	Date:		
E-mail Addres		^				Conditions of	Approval:			Attached		
Date:	11410	9	Phone: 50	5-632-3476 Ext 2	201					1		

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 ordinary.	
Operator: Elm Ridge Exploration OGRID #: 149052	_
Address: P.O. Box 156; Bloomfield, NM 87413	
Facility or well name: Pete Morrow 1	
API Number: 3004527240 OCD Permit Number:	
U/L or Qtr/Qtr L Section 1 Township 25N Range 12W County: San Juan	
Center of Proposed Design: Latitude 36.428006 Longitude -108.067956 NAD: ☐1927 ☒ 1983	
Surface Owner: Federal State Private Tribal Trust or Indian Allotment	
2. Pit: Subsection F or G of 19.15.17.11 NMAC Temporary: □ Drilling □ Workover Permanent □ Emergency □ Cavitation □ P&A □ Lined □ Unlined Liner type: Thicknessmil □ LLDPE □ HDPE □ PVC □ Other String-Reinforced	•
Liner Seams: Welded Factory Other Volume: bbl Dimensions: L 8' x W 8' x D 1'	

Below-grade tank: Subsection I of 19.15.17.11 NMAC Volume: _____bbl Type of fluid: 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: Thickness _mil 🔲 HDPE 🔲 PVC 🔲 Other

Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other

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

Alternative Method:

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

Closed-loop System: Subsection H of 19.15.17.11 NMAC

Liner Seams: Welded Factory Other _

☐ Drying Pad ☐ Above Ground Steel Tanks ☐ Haul-off Bins ☐ Other

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	
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:	office for
Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau consideration of approval.	office for
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 accematerial are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry above-grade tanks associated with a closed-loop system.	opriate district approval.
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 T
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
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 1
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. (Applies to permanent pits) - Visual inspection (certification) of the proposed site; Aerial photo; Satellite image	
	☐ Yes ☐ 1
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	□ 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 1
Within 500 feet of a wetland.	☐ Yes ☐ 1
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 	☐ Yes ☐
Within a 100-year floodplain FEMA map	Yes 1
	☐ Yes ☐ 1
	☐ Yes ☐ 1

Temporary Pits, Emergency Pits, and B. w-grade Tanks Permit Application Attachment Cecklist: 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 NMA 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 NM 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 19.15.17.12 NMAC Freeboard and Overtopping Prevention Plan - based upon the appropriate requirements of 19.15.17.11 NMAC Nuisance or Hazardous Odors, including H ₂ S, Prevention Plan Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan 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 systems That Utilize Above Ground Steel Tanks on Maul-off Bins Only: (19.1 Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attach facilities are required.	
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 f Yes (If yes, please provide the information below) No	uture service and operation
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. 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	13 NMAC
Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of accept provided below. Requests regarding changes to certain siting criteria may require administrative approval from the apprope considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	riate district office or may
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
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 ☐ NA
Ground water is more than 100 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; Data 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 lake (measured from the ordinary high-water mark). - Topographic map; Visual inspection (certification) of the proposed site	r playa Tes 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	n. Yes No
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or st watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial appl - NM Office of the State Engineer - iWATERS database; Visual inspection (certification) of the proposed site	tock Yes No
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordin adopted pursuant to NMSA 1978, Section 3-27-3, as amended. - Written confirmation or verification from the municipality; Written approval obtained from the municipality	nance Yes No
Within 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed s	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 Geolog Society; Topographic map 	ical 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 was the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirement 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 or in case on-site closure standally 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	AC nts of 19.15.17.11 NMAC MAC

Operator Application Certification: I hereby certify that the information submitted with this application.	notion is true accounts and complete to	the hest of my knowledge and helief
Name (Print):	_	the best of my knowledge and benefit
Signature:	_	
B 7 11		
E-mail address:	Telephone.	
OCD Approval: Permit Application (including closure pl	lan) Closure Plan (only) OC	D Conditions (see attachment)
OCD Representative Signature:		Approval Date:
Title:	OCD Permit Nur	nber:
Closure Report (required within 60 days of closure complet Instructions: Operators are required to obtain an approved of The closure report is required to be submitted to the division of section of the form until an approved closure plan has been on	losure plan prior to implementing any within 60 days of the completion of the	v closure activities and submitting the closure repo e closure activities. Please do not complete this
		npletion Date: <u>9/8/09</u>
22. Closure Method: Waste Excavation and Removal ☐ On-Site Closure Met ☐ If different from approved plan, please explain.	thod Alternative Closure Method	d Waste Removal (Closed-loop systems only)
23. <u>Closure Report Regarding Waste Removal Closure For Clo</u> <i>Instructions: Please indentify the facility or facilities for whe two facilities were utilized.</i>	nsed-loop Systems That Utilize Above tre the liquids, drilling fluids and drill	e Ground Steel Tanks or Haul-off Bins Only: cuttings were disposed. Use attachment if more to
	······································	Permit Number: <u>NM-01-0011</u>
Disposal Facility Name:		Permit Number:
Were the closed-loop system operations and associated activitie Yes (If yes, please demonstrate compliance to the items by		t be used for future service and operations?
Required for impacted areas which will not be used for future so Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	·	
24. Closure Report Attachment Checklist: Instructions: Each of mark in the box, that the documents are attached. □ Proof of Closure Notice (surface owner and division) Set □ 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 Disposal Facility Name and Permit Number Envirotech □ Soil Backfilling and Cover Installation See Attached □ Re-vegetation Application Rates and Seeding Technique □ Site Reclamation (Photo Documentation) See Attached On-site Closure Location: Latitude	ee Attached See Attached or on-site closure) Landfarm #2 NM-01-0011	d to the closure report. Please indicate, by a chec
25. Operator Closure Certification:		
I hereby certify that the information and attachments submitted the belief. I also certify that the closure complies with all applicables.	with this closure report is true, accurate e closure requirements and conditions	e and complete to the best of my knowledge and specified in the approved closure plan.
Name (Print): Ms. Amy Mackey	Title: <u>Ad</u>	ministrative Manager
Signature:	Date:	14/09
E-mail address: <u>amackey1@elmridge.net</u>	Telephone:	(505) 632-3476 ext. 201

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 Pete Morrow #1 well site is September 8, 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 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 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.
- 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 earth 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 recieve notice at least 24 hours prior to the beginning of closure activities.

Notification was provided to the Bureau of Land Management on September 2, 2009; see attached Sundry Notice and 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 8, 2009, approximately one (1) cubic yard 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 Pete Morrow #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	ТРН
Pit Rule Standard	0.2 mg/kg	50 mg/kg	250 mg/kg	100 mg/kg
5pt Composite	< 0.0009 mg/kg	< 0.005 mg/kg	60 mg/kg	64 mg/kg

- 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.

Elm Ridge Exploration Pete Morrow #1 Earth Pit Closure 03056-0202 Closure Date: 9/8/09

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).

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 Pete Morrow #1 Earth Pit Closure 03056-0202 Closure Date: 9/8/09

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 8, 2009.

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	FECEX US Airbill Express	60/150	Senters James McDeryje	Company ENVIROTECH Address 5795 HIGHWAY 64	ON FARMINGTON	Now Internal Billing Reference 03056-6724	To Properts Brad Jones	COMPANY M. Dil Conservation Division	Recipients Address We connect solver to Pth. brass or Pth. 27 sees	Address (6 L. C.) The region is priced to bridge the factor of the fa		Starte your addresses at
ı		1 From 8/04/09	Sender's Name	Addings (A)	ON FARI			Company	Recipient's Addines We connect debrars	Address of the second		Ø
	-	-				~	•					



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

jwedaniel@envirotech-inc.com

ELM RIDGE EXPLORATION

Administrative Manager amackey | @cimridge.net

Attachments: Closure Schedule

5796 US Highway 64, Farmington, NM 87401 Ph (505) 632-0615 Fr (800) 362-1879 Fx (505) 632-1865 info@enviratech-inc.com enviratech-inc.com

Amv Mackey

August 2009

Sunday	Monday	Augus Tuesdav	August 2009 v Wed	Thurs	Friday	to.
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23	24 Bieti Coel 6-1 Bieti Coel 6-2 Bisti Coel 7-1 Bieti Coel 7 COM 2 Bisti Coel 8 COM 1 Bisti Coel 9-1 Bisti Coel 9 COM 2	25 Blett Coel 6-1 Blett Coel 6-2 Blett Coel 7-1 Blett Coel 7-1 Blett Coel 8 COM 1 Blett Coel 8 COM 1 Blett Coel 9-1 Blett Coel 9-1	26 Birdi Coal 6-1 Bisti Coal 6-2 Bisti Coal 7-1 Bisti Coal 7-COM 2 Bisti Coal 8-COM 1 Bisti Coal 9-1 Bisti Coal 9-COM 2	Bieti Coal 6-1 Bieti Coal 6-2 Bisti Coal 7-1 Bisti Coal 7-0 Bisti Coal 8 COM 1 Bisti Coal 8 COM 1 Bisti Coal 9-1 Bisti Coal 9 COM 2	28 Bisti Coal 6-1 Bisti Coal 6-2 Bisti Coal 7-1 Bisti Coal 7 COM 2 Bisti Coal 8 COM 1 Bisti Coal 9 COM 2 Bisti Coal 9 COM 2	58
30	31 Carson 10-332 Buena Suerte 3 G COM 1 Buena Suerte 3 L COM 1 Buena Suerte 32 G COM 1 Buena Suerte 4 L COM 1 East Bisti Coal 6-1 Carson Unit 15 COM 323 Cerson Unit 206			·		

Sat		12	19	26	
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Monday		Carson Unit 313 Pete Morrow 1 Pete Morrow 2 North Bistl Coel 32M COM 2 Sam Jackson State COM 1 North Bistl Coel 31-1 West Bistl Coel 11 F COM 1	14 West Bisti Coal 12-1 West Bisti Coal 12-1 West Bisti Coal 11-2 West Bisti Coal 10-2 West Bisti Coal 14 COM 1 West Bisti Coal 15-1 West Bisti Coal 15-2 West Bisti Coal 15-2	21 West Bisti Coal 22 COM 1 West Bisti Coal 23-1 West Bisti Coal 24-1 West Bisti Coal 24-1 West Bisti Coal 25-1 West Bisti Coal 25-1 West Bisti Coal 25-1 Sharilla Apache I-11 Shalla Hixon 1	28
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03056 -0808

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Ste Man Customer Service E Copyrights 2009 USPS. All Rights Re Curson Unit 313 03056 - 0196 Jeter Com 2 03056 - 0198	Forms Gov't Services Careers C Return GENDOISERVED GENDOISERVED GENDOISERVED GENDOISERVED GENDOISERVED GENDOISERVED	Ma 1035 La Olata Highway Suita O.
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Sam Jackson State Com 1 03056-0204	2. Article Number 700	Pagistared Paturn Receipt for Merchandise insured Mail C COD. 4. Restricted Delivery? (Extra Fee) C Yes 7. 1490 0000 5398 9381
west Bisti Coal II		102505-02-M-1540



August 31, 2009

Project No. 03056-0202

Mr. Mark Kelly Bureau of Land Management 1235 La Plata Highway, Suite A Farmington, New Mexico 87401

Phone: (505) 599-8900

RE: PETE MORROW 1 EARTH PIT CLOSURE NOTIFICATION

Dear Mr. Kelly,

Please accept this letter and attached Sundry Notice as the necessary surface owner notification for earth pit closure activities at the Pete Morrow 1 well site, owned and operated by Elm Ridge Exploration. The Pete Morrow 1 well site is located in Unit L, Section 1, Township 25N, Range 12W, San Juan County, New Mexico. Closure activities are scheduled to begin on September 7, 2009 and continue through September 11, 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,

ENVIROTECH, INC.

James McDaniel
Project Scientist

imcdaniel@envirotech-inc.com

Enclosure:

Sundry Notice

Cc:

Client File No. 03056

Form 3160-5 (August 2007)

UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT**

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an

5. Lease Serial No. NM-070322 6. If Indian, Allottee or Tribe Name

abandoned well.	Use Form 3160-3 (A	(PD) for suc	h proposals.			
SUBMI	T IN TRIPLICATE - Other	r Instructions on	page 2.		7. If Unit of CA/Agr	eement, Name and/or No.
1. Type of Well						
Oil Well Gas W	ell Other				8. Well Name and No Pete Morrow 1	0.
Name of Operator Elm Ridge Exploration		·			9. API Well No. 30-045-27240	
3a. Address PO Box 158		3b. Phone No. (include area code)		10. Field and Pool or	Exploratory Area
Bloomfield, NM 87413		(505) 632-347	6			
4. Location of Well (Footage, Sec., T.) 1850FSL 1190FWL, L-1-25N-12W, Lat. 36.428	R., M., or Survey Description, 00826 long108.0679555	y			11. Country or Parish San Juan County,	
12. CHEC	K THE APPROPRIATE BO	X(ES) TO INDI	CATE NATURE O	F NOTIC	E, REPORT OR OTH	IER DATA
TYPE OF SUBMISSION			TYPE	OF ACT	ION	
Notice of Intent	Acidize	Deeper		Produ	ction (Start/Resume)	Water Shut-Off
	Alter Casing	Fractu	e Treat	Recia	mation	Well Integrity
Subsequent Report	Casing Repair	☐ New C	onstruction	Reco	mplete	Other Closure of an Earth
	Change Plans	Plug ar	d Abandon [Temp	orarily Abandon	Pit
Final Abandonment Notice	Convert to Injection	Plug B	sck [Water	Disposal	
Elm Ridge Exploration plans to begin Closure activities are scheduled to b	n closure activities for an e eing on Monday, Septemb	earthen pit locat ber 7, 2009 and	ed at the above m last through Sept	nentione ember 1	d site. All formal no 1, 2009.	tifications have been made.
14. I hereby certify that the foregoing is tru Ms. Army Mackey	e and correct. Name (Printed		Title Administrativ	ve Mana	ger	
Signature A		ı	oate 08/31/2009			
	THIS SPACE	FOR FEDER	AL OR STAT	E OFF	ICE USE	
Approved by						
			Title			Date
Conditions of approval, if any, are attached that the applicant holds legal or equitable titl antitle the applicant to conduct operations the	e to those rights in the subject ereon.	t lease which woul	ify d Office			
Title 18 U.S.C. Section 1001 and Title 43 U fictitious or fraudulent statements or represe	S.C. Section 1212, make it a contations as to any matter with	crime for any pers in its jurisdiction.	on knowingly and w	illfully to	make to any departmen	nt or agency of the United States any false,

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations and reports of such operations when completed as indicated on Federal and Indian lands pursuant to applicable Federal law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area or regional procedures and practices, are either shown below, will be issued by or may be obtained from the local Federal office.

SPECIFIC INSTRUCTIONS

Item 4 - Locations on Federal or Indian land should be described in accordance with Federal requirements. Consult the local Federal office for specific instructions.

Item 13 - Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by the local Federal office. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to the top of any tubing left in the hole; method of closing top of well and date well site conditioned for final inspection looking for approval of the abandonment.

NOTICES

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et seq., 351 et seq., 25 U.S.C. 396; 43 CFR 3160.

PRINCIPAL PURPOSE: The information is used to: (1) Evaluate, when appropriate, approve applications, and report completion of subsequent well operations, on a Federal or Indian lease; and (2) document for administrative use, information for the management, disposal and use of National Resource lands and resources, such as: (a) evaluating the equipment and procedures to be used during a proposed subsequent well operation and reviewing the completed well operations for compliance with the approved plan; (b) requesting and grantingapproval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or resumption of production, as required by 43 CFR 3162.4-1(c)and (d) analyzing future applications to drill or modify operations in light of data obtained and methods used.

ROUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to consumer reporting agencies to facilitate collection of debts owed the Government.

EFFECT OF NOT PROVIDING THE INFORMATION: Filing of this notice and report and disclosure of the information is mandatory for those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

The Paperwork Reduction Act of 1995 requires us to inform you that:

The BLM collects this information to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

Response to this request is mandatory.

The BLM would like you to know that you do not have to respond to this or any other Federal agency-sponsored information collection unless it displays a currently valid OMB control number.

BURDEN HOURS STATEMENT: Public reporting burden for this form is estimated to average 8 hours per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management (1004-0137), Bureau Information Collection Clearance Officer (WO-630), 1849 C St., N.W., Mail Stop 401 LS, Washington, D.C. 20240

PETE MORROW #1
SEC 1, TWP 25N, RGE 12W
PROJECT NO. 03056-0202

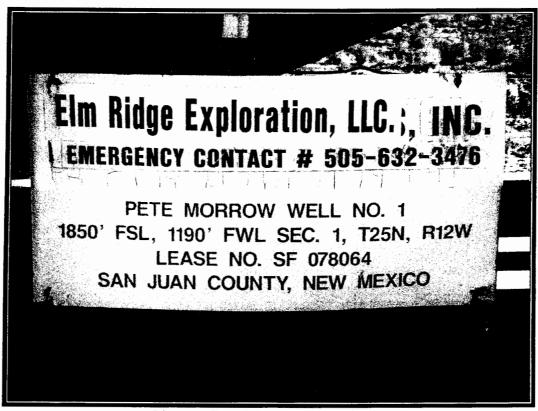


Photo 1: Pete Morrow #1 Well Site



Photo 2: Excavated Area After Backfilling and Recontouring



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Elm Ridge Exploration

Project #:

03056-0202

Sample No.:

1

Date Reported:

9/30/2009

Sample ID:

5pt Composite

Date Sampled:

9/8/2009

Sample Matrix:

Soil

Date Analyzed:

9/8/2009

Preservative:

Cool

Analysis Needed:

TPH-418.1

Condition:

Cool and Intact

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

Total Petroleum Hydrocarbons

64

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:

Pete Morrow #1

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Toni McKnight

Printed

James McDaniel

Printed



CONTINUOUS CALIBRATION EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Cal. Date:

8-Sep-09

Parameter	Standard Concentration mg/L	Concentration Reading mg/L	
ТРН	100		
	200	187	
	500		
	1000		

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

Imi McMught
Analyst

9/30/09

Date

Toni McKnight

Print Name/

Review

7/50/ Date

James McDaniel

Print Name



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	ElmRidge	Project #:	03056-0202
Sample ID:	5pt Composite	Date Reported:	09-11-09
Laboratory Number:	5 15 69	Date Sampled:	09-08-09
Chain of Custody:	7918	Date Received:	09-08-09
Sample Matrix:	Soil	Date Analyzed:	09-10-09
Preservative:	Cool	Date Extracted:	09-09-09
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	96.0 %
	1,4-difluorobenzene	96.0 %
	Bromochlorobenzene	96.0 %

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 Pit Closure / Pete Morrow #1

Analyst

Christum Waeters
Review



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

0.9

1.0

1.0

1.2

0.9

Client: Sample ID: Laboratory Number: Sample Matrix: Preservative: Condition:	N/A 09-10-BT QA/QC 51489 Soil N/A N/A		Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Analysis:		N/A 09-11-09 N/A N/A 09-10-09 BTEX	
Benzene	2.0215E+006	2.0255E+006	0.2%	ND	0.1	
Toluene	1.9175E+006	1.9213E+006	0.2%	ND	0.1	
Ethylbenzene	1.7328E+006	1.7363E+006	0.2%	ND	0.1	
p,m-Xylene	4.4900E+006	4.4990E+006	0.2%	ND	0.1	
o-Xylene	1.6741E+006	1.6775E+006	0.2%	ND	0.1	
			: .			
				.,		

0.0%

0.0%

0.0%

0.0%

0.0%

ND

ND

ND

ND

ND

0 - 30%

0 - 30%

0 - 30%

0 - 30%

0 - 30%

ND

ND

ND

ND

ND

				·	
Benzene	ND	50.0	49.4	98.8%	39 - 150
Toluene	ND	50.0	48.7	97.4%	46 - 148
Ethylbenzene	ND	50.0	48.3	96.6%	32 - 160
p,m-Xylene	ND	100	103	103%	46 - 148
o-Xylene	ND	50.0	46.8	93.6%	46 - 148

ND - Parameter not detected at the stated detection limit.

References:

Benzene

Toluene

Ethylbenzene

p,m-Xylene

o-Xylene

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 51489 - 51492, 51560, and 51567 - 51571.

Analyst



Chloride

Client: Sample ID: ElmRidge 5pt Composite Project #:
Date Reported:

03056-0202 09-11-09

Lab ID#: Sample Matrix: 51569 Soil Cool

Date Sampled:
Date Received:

09-08-09 09-08-09

Preservative: Condition:

Intact

Date Analyzed: Chain of Custody: 09-10-09 7918

Parameter

Concentration (mg/Kg)

Total Chloride

60

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 Pit Closure / Pete Morrow #1.

Analyst

Anothem Waeters
Review

CHAIN OF CUSTODY RECORD

Client:	Project Name	ocatjon:	• `	2 4 10		5	-	7	5	5				-	2			
Elm/Midge	Eath Pitchsures	-chsun		L H	WIEN.				•	NALY	ANALYSIS / PARAMETERS	RAME	ETERS					
Olient Address:	Sampler Name:		11 11			<u> </u>												
Client Phone No.:	Client No.:					B bodtəl	bodteM 	s bottals Metals	noinA \		d/H 41!/	(1.81				1000	Intact	
Sample No./ Sample Identification Date) 음 :	No./Volume Preservative	Preservative				\ noits(CI	ОГЬ М	+) Hd	ЭНГОВ			guble	guble	
Spt comps, 4/8/4	Pa1512		Sludge	1402	3	 		-	D	4		- 				\times	s , í	
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		•)															

PAGE NO: OF DATE STARTED: 9/8			Co		**************************************		TO LATN36	IMENTAL SPECIALIST
	FIELD I	REPORT:	BGT / F	PIT CLO	SURE VE	RIFICA	TION	
LOCATION: NAME: /	ofe P	Torrow	WELL#:	/	TEMP PIT:		VENT PIT:	⊁ BGT:
LEGAL ADD: UNIT:	<i>e</i> 10 1	SEC: /	WELL T.	TWP:25	NAME OF TAXABLE PARTY OF TAXABLE PARTY.	RNG: 12	to the second second second	PM: ///
QTR/FOOTAGE: (ESC)	FSC F	1190 Fuc	CNTY: <	THE RESERVE OF THE PARTY OF THE		ST: Ve	LA.	×1(0
	φ.		E		/ \\		S A CHIEF CO.	
EXCAVATION APPROX:		FT. X	<u> </u>	FT. X	(0)			ARDAGE: NA
DISPOSAL FACILITY: LAND OWNER:	7-1	of ech		REMEDIA	TION METH	BGT / PIT	10 form	
CONSTRUCTION MATERIA	tediral	SF-07806		WALLED	WITH LEAK I			
LOCATION APPROXIMATE			FT.	WINDLED,	FROM WELL	Otto Till Till Till Till Till Till Till Til	. / 0/2	
DEPTH TO GROUNDWATE			rı.		FROM WELL	JUEAD		
TEMPORARY PIT - GR		ER 50-100 FF	EET DEEP		· · · · · · · · · · · · · · · · · · ·			
BENZENE ≤ 0.2 mg/kg, B				N (8015) ≤ 50	00 mg/kg, TPH ((418.1) ≤ 2500	mg/kg, CHL	ORIDES ≤ 500 mg/kg
TEMPORARY PIT - GR		_				` ,	0 0	
BENZENE ≤ 0.2 mg/kg, B1				N (8015) < 50	0 mg/kg TPH (4	418 1) < 2500	mg/kg_CHL(ORIDES < 1000 mg/kg
		ig, one a Dice		11 (0013) 2 30	o mg/kg, IIII (110.1) 2 2500	mg kg, OHD	31125 25 2 1000 mg mg
PERMANENT PIT OR I		L. TDII (410.1)	\ -100 N	CHI ON IDI	77 - 070 4			
BENZENE ≤ 0.2 mg/kg, B'	IEA ≥ 50 mg/	kg, 1PH (418.1)) ≤ 100 mg/kg					
	TDO	CAMPLETE	LEADNO		D 418.1 ANAL		DEADDIC	CALC (mg/kg)
	7:13	SAMPLE I.D. 200 STD	LAB NO.	WEIGHT (g	mL FREON	DILUTION	READING	CALC. (mg/kg)
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PERIME	ETER		FIELD C	HLORIDES	S RESULTS		PRO	OFILE
		1°N	SAMPLE ID	READING	CALC. (mg/kg)			
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MX BAIL	DEP	\	SAMP		RESULTS	لا	×-x-	×876"
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LAB SAMPLES		NOTES:					-	
	RESULTS	NOTES.						
BENZENE								
BTEX								
GRO & DRO CHLORIDES	·····							
CHLORIDES								
	-							

Lenvirotech

Bill of Lading

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

34193

MANIFEST #

DATE 7-8.09 JOB# 02056-0203 DRIVER SIGNATURE 78/150 Johnney 78 12:15 Luthellen 78 14 9dm 500Z S C **TRANSPORTING COMPANY** TRK# TIME ENTERED SEP なま COMPANY エナス 7 NOTES: BBLS J YDS 15-19/12 7 F20 アス GRID COMPLETE DESCRIPTION OF SHIPMENT 2 50,1 MATERIAL 1 d d soil went to 12 Cont Z DESTINATION LANDFARM EMPLOYEE: IF-II Z Elm Rugge Pete Mariau #2 M POINT OF ORIGIN 268 CHLORIDE TEST PAINT FILTER RESULTS: 450 4 LOAD Š

"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."

NAME TOW MSKINNEY

COMPANY CONTACT MEN

COMPANY SIMPASS PHONE . 229-2911

SIGNATURE COLIMBIAND PATE 9-0-13