istrict I
i25 N. French Dr., Hobbs, NM 88240
istrict II
i01 W. Grand Avenue, Artesia, NM 88210
istrict III
i00 Rio Brazos Road, Aztec, NM 87410
istrict IV
20 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 Form C-141 Revised October 10, 2003 Submit 2 Copies to appropriate

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

						e, 19191 87.						
			Rel	ease Notific	atio	n and Co	orrective A	ction				
						OPERA	TOR	\boxtimes	Initi	al Report		Final Repor
Name of Company: Elm Ridge Exploration				Contact: Ar	ny Mackey							
Address: PO Box 156, Bloomfield, NM 87413						No.: (505) 632-3	3476 Ext 2	201				
		Coal 17 COM					e: Gas Well					
Jurface Ox	ner: Feder	ral		Mineral O	wner			1	l ease N	No.: 078058	2	
di lace On	mer. reder	41							Deuse 1	10 070050		
Init I attan	Castian	Township	Dongo	Feet from the		N OF RE		East/Wes	4 T :	I Company		
Init Letter A	Section 17	Township 25N	Range 12W	790	Norun	FNL	Feet from the 790	FEI		County San Juan		
		1,		Latitude 36.40	6268	Longiti	ıde <u>-108.12851</u>	<u> 4</u>		L		
				NAT	URE	OF REL	EASE					
	ease: Produ						Release: Unknov			Recovered: 1		
	elease: Earth					Historical	Iour of Occurrenc	e: D	ate and	Hour of Disc	overy	y: NA
√as Immedi	ate Notice (Yes [No 🛛 Not Rec	quired	If YES, To	Whom?			Š	2	===
y Whom?						Date and Hour						
/as a Water	course Read		Yes 🗵	No		If YES, Vo	lume Impacting t	he Waterco	urse.			
a Waterco	urse was Im	pacted, Descr	ibe Fully.*								_o_ `>_	
roduced Wa	ater from ga		nentioned	n Taken.* location formerly do ound Storage Tank			rthen pit on locati	ion. The w	ell has t	peen altered		longer drain
low sand womposite sa etroleum hy ilorides via id 250 mg/l	ras removed imple was condrocarbons USEPA Monkg total chloridad	ollected from a (TPH) via US ethod 4500B. orides, confirm	nen pit, an approxima EPA Metl The samp aing that a	d approximately the tely six (6) feet beloned 418.1, and in Ele returned results release had not occurred.	ow the nvirote below t curred.	e earthen pit o ech's laborato the 'Pit Rule' Analytical re	ory for benzene an standards of 100 esults are attached	ed. The sand BTEX vi mg/kg TPH for your re	nple wa a USEP I, 0.2 m ference	s analyzed in A Method 8 g/kg benzend	n the f 021, a e, 50 r	field for total and for total mg/kg BTEX,
gulations a iblic health ould their of the environment	Il operators or the environs hoperations homent. In a	are required to ronment. The ave falled to	report an acceptance dequately CD accep	is true and comple d/or file certain rel e of a C-141 report investigate and ren tance of a C-141 re	ease no by the nediate	otifications and NMOCD ma contamination	d perform correct arked as "Final Re on that pose a thre	tive actions eport" does at to ground esponsibilit	for rele not relied water, y for co	ases which reve the opera surface wate mpliance wi	nay er itor of er, hui th any	ndanger f liability man health
gnature:	e: Ms Amy	Mackey	_		A	Approved by I	District Superviso					
	istrative Ma				A	Approval Date	»:	Expiration Date:				
				c	Conditions of Approval:							

Phone: 505-632-3476 Ext 201

tach Additional Sheets If Necessary

strict 1
25 N. French Dr., Hobbs, NM 88240
strict II
01 W. Grand Avenue, Artesia, NM 88210
strict III
00 Rio Brazos Road, Aztec, NM 87410
strict IV
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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							
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 onement. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.							
erator: Elm Ridge Exploration OGRID #: 149052							
dress: P.O. Box 156; Bloomfield, NM 87413							
ility or well name: Bisti Coal 17 COM 1							
Number: 3004528379 OCD Permit Number:							
or Qtr/Qtr A Section 17 Township 25N Range 12W County: San Juan							
iter of Proposed Design: Latitude <u>36.406268</u> Longitude <u>-108.128514</u> NAD: □1927 ☑ 1983							
face Owner: Federal State Private Tribal Trust or Indian Allotment							
Pit: Subsection F or G of 19.15.17.11 NMAC Inporary: Drilling Workover Permanent Emergency Cavitation P&A Lined Unlined Liner type: Thickness mil LLDPE HDPE PVC Other String-Reinforced er Seams: Welded Factory Other Volume: bbl Dimensions: L 6' x W 5' x D 2.5'							
Closed-loop System: Subsection H of 19.15.17.11 NMAC							
e of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of nt)							
Drying Pad							
Lined Unlined Liner type: Thicknessmil							
er Seams: Welded Factory Other Other							
Below-grade tank: Subsection 1 of 19.15.17.11 NMAC ume:bbl Type of fluid: k Construction material: Secondary containment with leak detection							
Alternative Method: mittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval							

encing: 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, istitution or church)						
Four foot height, four strands of barbed wire evenly spaced between one and four feet						
Alternate. Please specify						
etting: 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)						
J Monthly inspections (it netting to serecining is not physicanly reasons)						
igns: Subsection C of 19.15.17.11 NMAC						
1 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers						
Signed in compliance with 19.15.3.103 NMAC						
dministrative Approvals and Exceptions:						
stifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.						
'ease 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	ı office for					
nsideration of approval. Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.						
ting Criteria (regarding permitting): 19.15.17.10 NMAC structions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of accounterial are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the apprice or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of uplicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. Siting criteria does not apply to dry ove-grade tanks associated with a closed-loop system.	opriate district approval. ving pads or					
ound 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					
ithin 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa to (measured from the ordinary high-water mark).0. Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No					
ithin 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					
thin 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application. **policy to permanent pits** **Notice of the proposed sites April photo: Sotellite image.**						
 Visual inspection (certification) of the proposed site; Aerial photo; Satellite image thin 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock tering 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 						
thin incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance opted pursuant to NMSA 1978, Section 3-27-3, as amended.	☐ Yes ☐ No					
thin 500 feet of a wetland.						
thin the area overlying a subsurface mine.	Yes No					
 thin an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No					
thin a 100-year floodplain FEMA map	☐ Yes ☐ No					
	☐ Yes ☐ No					
	☐ Yes ☐ No					

emporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklis structions: Each of the following items must be attached to the application. Please indicate, by a cho	t: Subsection B of 19.15.17.9 NMAC eck mark in the box, that the documents are						
Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subs Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.1 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 19.15.17.12 NMAC	(2) of Subsection B of 19.15.17.9 NMAC 0 NMAC						
Previously Approved Design (attach copy of design) API Number: or Permit Number:							
Treviously approved Besign (under copy of design)							
osed-loop Systems Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC structions: Each of the following items must be attached to the application. Please indicate, by a checket.	eck mark in the box, that the documents are						
Geologic and Hydrogeologic Data (only for on-site closure) - based upon the requirements of Parag Siting Criteria Compliance Demonstrations (only for on-site closure) - based upon the appropriate r 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 req	equirements of 19.15.17.10 NMAC						
d 19.15.17.13 NMAC	unrements of Subsection C of 19.13.17.9 NiviAC						
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						
ove ground steel tanks or haul-off bins and propose to implement waste removal for closure)							
rmanent Pits Permit Application Checklist: Subsection B of 19.15.17.9 NMAC structions: Each of the following items must be attached to the application. Please indicate, by a che ached. Hydrogeologic Report - based upon the requirements of Paragraph (1) of Subsection B of 19.15.17.9 Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.1 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. 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 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 19.15.17.13 NMAC Emergency Response Plan Oil Field Waste Stream Characterization Monitoring and Inspection Plan Erosion Control Plan Closure Plan - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC and 1900 posed Closure: 19.15.17.13 NMAC	9 NMAC 0 NMAC C 17.11 NMAC .15.17.11 NMAC 11 NMAC						
tructions: Please complete the applicable boxes, Boxes 14 through 18, in regards to the proposed close: Drilling Workover Emergency Cavitation P&A Permanent Pit Below- Alternative posed 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	grade Tank						
ste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the sure plan. Please indicate, by a check mark in the box, that the documents are attached. 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 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 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	F of 19.15.17.13 NMAC on H of 19.15.17.13 NMAC						

Form C-144

Oil Conservation Division

Page 3 of 5

Vaste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13	
structions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment is cilities are required.	
Disposal Facility Name: Disposal Facility Permit Number:	
Disposal Facility Name: Disposal Facility Permit Number:	
fill any of the proposed closed-loop system operations and associated activities occur on or in areas that will not be used for future set. Yes (If yes, please provide the information below) No	ervice and operations?
equired 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	AC
ting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC structions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable sor ovided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate dis nsidered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Just monstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.	strict office or may be
ound 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
ound 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
ound 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
 ithin 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa to (measured from the ordinary high-water mark). Topographic map; Visual inspection (certification) of the proposed site 	☐ Yes ☐ No
thin 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
thin 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock tering 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
thin incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance opted 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
thin 500 feet of a wetland. - US Fish and Wildlife Wetland Identification map; Topographic map; Visual inspection (certification) of the proposed site	☐ Yes ☐ No
thin the area overlying a subsurface mine. - Written confirmation or verification or map from the NM EMNRD-Mining and Mineral Division	☐ Yes ☐ No
 thin an unstable area. Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; Topographic map 	☐ Yes ☐ No
thin a 100-year floodplain FEMA map	☐ Yes ☐ No
-Site Closure Plan Checklist: (19.15.17.13 NMAC) Instructions: Each of the following items must be attached to the closure plan check mark in the box, that the documents are attached. Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.13 NMAC Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	15.17.11 NMAC

m C-144 Oil Conservation Division

perator Application Certification:	-itted with this application is true accoun	ate and complete to the best of my knowledge and belief.
nme (Print):	••	ate and complete to the best of my knowledge and benefit.
gnature:		Date:
mail address:	Telephone:	
CD Approval: Permit Application	n (including closure plan) Closure Pl	lan (only) OCD Conditions (see attachment)
CD Representative Signature:		Approval Date:
_		
tle:		OCD Permit Number:
structions: Operators are required to se closure report is required to be sub-	ys of closure completion): Subsection obtain an approved closure plan prior to mitted to the division within 60 days of the observe plan has been obtained and the closure plan has been obtained.	o implementing any closure activities and submitting the closure report. he completion of the closure activities. Please do not complete this
osure Method: Waste Excavation and Removal If different from approved plan, plea		tive Closure Method Waste Removal (Closed-loop systems only)
		That Utilize Above Ground Steel Tanks or Haul-off Bins Only: ling fluids and drill cuttings were disposed. Use attachment if more than
Disposal Facility Name:Enviroted	:h Landfarm #2	Disposal Facility Permit Number: <u>NM-01-0011</u>
-		Disposal Facility Permit Number:
re the closed-loop system operations Yes (If yes, please demonstrate co	and associated activities performed on or mpliance to the items below) \(\simega\) No	in areas that will not be used for future service and operations?
quired for impacted areas which will i Site Reclamation (Photo Documer Soil Backfilling and Cover Installa Re-vegetation Application Rates a	ation	ons:
rk in the box, that the documents are Proof of Closure Notice (surface of Proof of Deed Notice (required for Plot Plan (for on-site closures and Confirmation Sampling Analytical Waste Material Sampling Analytical Disposal Facility Name and Permit Soil Backfilling and Cover Installa	attached. wner and division) see attached r on-site closure) temporary pits) Results (if applicable) see attached ral Results (required for on-site closure) t Number Envirotech NM-01-0011 ation see attached see attached and Seeding Technique pursuant to BLM attation) see attached	MOU NAD: 1927 1983
erator Closure Certification: reby certify that the information and ef. I also certify that the closure com	attachments submitted with this closure replies with all applicable closure requirements	eport is true, accurate and complete to the best of my knowledge and ents and conditions specified in the approved closure plan.
(Print): Ms Amy Mackey		Title: Administrative Manager
nature:		Date:
nail address: <u>amackey1@elmrid</u>	ge.net	Telephone:

Earthen Pit Closure Checklist

- 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.
 Closure date for the earth pit located at Bisti Coal 17 COM 1 well site is July 28, 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.
 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 proximately 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 July 15, 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 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 requirement. 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 received notice at least 24 hours prior to the beginning of closure activities.

Notification was provided to the Bureau of Land Management on July 22, 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 July 28, 2009, approximately three (3) cubic yards of production sludge were 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 Bisti Coal 17 COM 1 well site; see *Field Sheet* and *Site Photos*.

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 at 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					
Earth Pit	Comp	< 0.0009 mg/kg	<0.005 mg/kg	90 mg/kg	60 mg/kg
8.5' Deep					

9) Depending on soil sample results the area will be either backfilled or the area will be excavated.

1) If soil samples do not exceed the regulatory standards of 0.2 mg/kg benzene, 50 mg/kg BTEX, 100 mg/kg TPH, and 250 mg/kg or background concentration of chlorides, as in accordance with 19.15.17.13 Subsection C Paragraph (3) NMAC.

i. Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, shall submit a Form C-141 with the laboratory results so that the division may review the results to determine if additional delineation is required in accordance with Paragraph (4) of Subsection C of 19.15.17.13 NMAC.

Completed Form C-141 is attached for your review.

- ii. Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will backfill the excavation or impacted area with non-waste containing, earthen material, in accordance with 19.15.17.13 Subsection E Paragraph (6) NMAC. A soil cover shall be installed for all backfilled excavations consisting of the background thickness of topsoil or one 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 nonwaste 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 Site Photos.
- 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.

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 five (5)-point composite sample 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 Bisti Coal 17 COM 1 Earth Pit Closure 03056-0161 Closure Date: 7/28/09

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, reseeding 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 September 28, 2009.

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 July and August 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 12 001	BISTI COAL 21 001	BISTI COAL 4 COM 002
BISTI COAL 16 001	BISTI COAL 21 COM 002	BISTI COAL 5 COM 001
BISTI COAL 16 002	BISTI COAL 22 002	BISTI COAL 5K COM 002
BISTI COAL 17 COM 001	BISTI COAL 28 001	BISTI COAL 6 001
BISTI COAL 18 001	BISTI COAL 29 001	BISTI COAL 6 002
BISTI COAL 18 002	BISTI COAL 29 002	BISTI COAL 7 001
BISTI COAL 19 001	BISTI COAL 30 COM 001	BISTI COAL 7 COM 002
BISTI COAL 2 001	BISTI COAL 31 001	BISTI COAL 8 COM 001
BISTI COAL 2 002	BISTI COAL 4 001 PIT 1	BISTI COAL 8L COM 002
BISTI COAL 20 001	BISTI COAL 4 001 PIT 2	BISTI COAL 9 001
BISTI COAL 20 002		

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.

ELM RIDGE EXPLORATION

James McDaniel
Project Scientist
imcdaniel@envirotech-inc.com

Amy Mackey Administrative Manager amackey1@elmridge.net

Attachments: Closure Schedule



Home | Help | Sign In

Track & Confirm

FAQs

Track & Confirm

Search Results

Label/Receipt Number: 7007 1490 0000 5398 9244

Service(s): Certified Mail

Status: Delivered

Track & Confirm

Enter Label/Receipt Number.

Your item was delivered at 10:14 AM on July 22, 2009 in FARMINGTON, NM 87401.

Go > :

Notification Options	_	U.S. Postal : CERTIFIEI	Service D MAIL RE Only; No Insurance	CEIPT	
Track & Confirm by email Get current event information or updates	무근		ation visit our website		
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	7490	(Endorsement Required) Total Postage & Fees	\$5,98		
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0241	۲-	City, State, ZIP+ CARL PS Form 3800, August 20	M	See Reverse for Instructions	

DER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY	a 1 h-1
mplete items 1, 2, and 3. Also complete n 4 if Restricted Delivery is desired. It your name and address on the reverse that we can return the card to you. ach this card to the back of the mailpiece, on the front if space permits.	A Signature Agent Addressee B Decemporation (Printed Name) C. Date of Delivery D Jerdanury address different from Jern 1?	Bisti Coal 16-2 Bisti Coal 16-2 Bisti Coal 16-1
Mark KElly Mark KElly Mark Huy 35 LAPIATA HWY	If YES, enter delivery address below: No	Bist: Coul 18-1
rmington, NM 87401	3. Service Type	
	4. Restricted Delivery? (Extra Fee) Yes	

m 3811, February 2004

Domestic Return Receipt

102595-02-M-1540



July 20, 2009

Project No. 03056-0161

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

Phone: (505) 599-8900

RE: BISTI COAL 17 COM 1 EARTH PIT CLOSURE NOTIFICATION

Dear Mr. Kelly,

Please accept this letter and attached Sundry Notice as the necessary surface owner notification for closure activities at the Bisti Coal 17 COM 1 well site, owned and operated by Elm Ridge Exploration. The Bisti Coal 17 COM 1 well site is located in Unit A, Section 17, Township 25N, Range 12W, San Juan County, New Mexico. Closure activities are scheduled to begin on July 27, 2009 and continue through July 31, 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,

ENVIROZECH, INC.

James McDaniel Project Scientist

jmcdaniel@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

5. Lease Serial No. SF-078058

Do not	UNDRY NOTIC use this form f ed well. Use F	6. If Indian, Allottee or Tribe Name		
	SUBMIT IN TR	IPLICATE - Other inst	ructions on page 2.	7. If Unit of CA/Agreement, Name and/or No.
Type of Well				
Oil Well	Gas Well	Other		8. Well Name and No. Bisti Coal 17 COM 1
Name of Operator Im Ridge Exploration				9. API Well No. 30-045-28379
ı. Address		3b.	Phone No. (include area code)	10. Field and Pool or Exploratory Area

) Box 156 comfield, NM 87413 (505) 632-3476 Location of Well (Footage, Sec., T., R., M., or Survey Description) 0 FNL 790 FEL, A-17-25N-12W, Lat. 36.40626 long. -108.12851 11. Country or Parish, State San Juan County, NM 12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA TYPE OF ACTION TYPE OF SUBMISSION Acidize Deepen Production (Start/Resume) Water Shut-Off Notice of Intent Alter Casing Fracture Treat Reclamation Well Integrity Other Closure of an Earth Casing Repair **New Construction** Recomplete Subsequent Report Pit Temporarily Abandon Change Plans Plug and Abandon Final Abandonment Notice Convert to Injection Plug Back Water Disposal

n Ridge Exploration plans to begin closure activities for an earthen pit located at the above mentioned site. All formal notifications have been made. osure activities are scheduled to being on Monday, July 27, 2009 and last through July 31, 2009.

I hereby certify that the foregoing is true and correct. Name (Printed Typed) Amy Mackey Title	Administrative Manager	
Signature	07/20/2009	
THIS SPACE FOR FEDERAL	OR STATE OFFICE USE	
roved by	Title	Date
litions of approval, if any, are attached. Approval of this notice does not warrant or certify he applicant folds legal or equitable title to those rights in the subject lease which would the applicant to conduct operations thereon.	Office	

18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false. ious or fraudulent statements or representations as to any matter within its jurisdiction

Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

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 nformation 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, lisposal 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 granting approval to perform those actions covered by 43 CFR 3162.3-2, 3162.3-3, and 3162.3-4; (c) reporting the beginning or esumption 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.

COUTINE USES: Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign gencies, when relevant to civil, criminal or regulatory investigations or prosecutions in connection with congressional inquiries or to onsumer 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 or those subsequent well operations specified in 43 CFR 3162.3-2, 3162.3-3, 3162.3-4.

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

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

lesponse to this request is mandatory.

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

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

ELM RIDGE EXPLORATION BISTI COAL 17 COM 1 SEC. 17, TWN 25N, RGE 12W PROJECT NO. 03056-0161

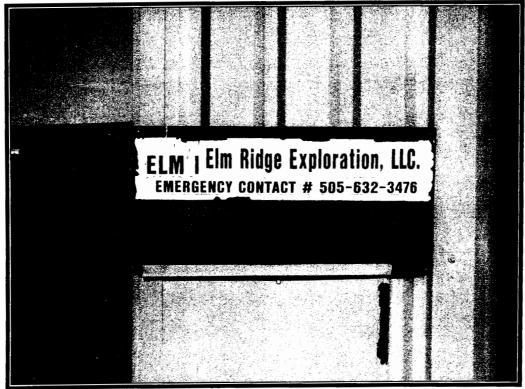


Photo 1: Bisti Coal 17 COM 1 Well Site

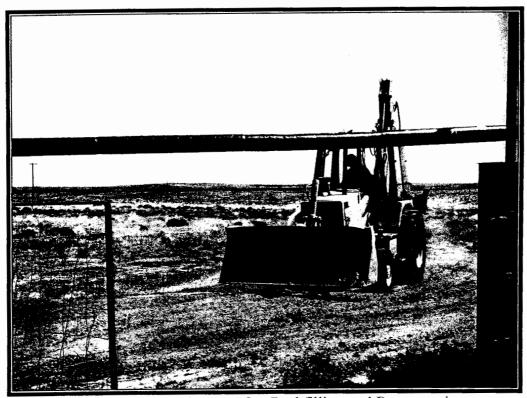


Photo 2: Excavated Area After Backfilling and Recontouring



EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Client:

Elm Ridge Exploration

Sample No.: Sample ID:

5-point at 8.5'

Sample Matrix:

Soil

Preservative:

Condition:

Cool

Cool and Intact

Project #:

03056-0161

Date Reported:

8/21/2009

Date Sampled: Date Analyzed: 7/28/2009

7/28/2009

Analysis Needed:

TPH-418.1

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

Total Petroleum Hydrocarbons

60

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:

Bisti Coal 17 COM 1

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Robyn S. Jones

Printed

James McDaniel

Printed



CONTINUOUS CALIBRATION EPA METHOD 418.1 TOTAL PETROLEUM HYDROCARBONS

Cal. Date:

28-Jul-09

Parameter	Standard Concentration mg/L	Concentration Reading mg/L	
ТРН	100		
	200	197	
	500		
	1000		

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

Analyst

Robyn S. Jones

Print Name

Review

James McDaniel

Print Name



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client:	Elmridge	Project #:	03056-0161
Sample ID:	Pit - 8.5' Below	Date Reported:	08-03-09
Laboratory Number:	51016	Date Sampled:	07-28-09
Chain of Custody:	7524	Date Received:	07-28-09
Sample Matrix:	Soil	Date Analyzed:	07-31-09
Preservative:	Cool	Date Extracted:	07-30-09
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	98.0 %
	1,4-difluorobenzene	98.0 %
	Bromochlorobenzene	98.0 %

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:

Bisti Coal 17 Com 1

Analyst



EPA METHOD 8021 AROMATIC VOLATILE ORGANICS

Client: N/A Sample ID: 07-31-BT QA/QC Laboratory Number: 51004 Sample Matrix: Soil Preservative: N/A Condition: N/A	Project #: Date Reported: Date Sampled: Date Received: Date Analyzed: Analysis:	N/A 08-03-09 N/A N/A 07-31-09 BTEX
---	---	---

					and the second s
Benzene	4.4517E+006	4.4606E+006	0.2%	ND	0.1
Toluene	4.1442E+006	4.1525E+006	0.2%	ND	0.1
Ethylbenzene	3.6898E+006	3.6972E+006	0.2%	ND	0.1
p,m-Xylene	9.5579E+006	9.5771E+006	0.2%	ND	0.1
o-Xylene	3.5394E+006	3.5465E+006	0.2%	ND	0.1

	The second secon				
Benzene	2.1	2.0	4.8%	0 - 30%	0.9
Toluene	6.3	6.6	4.8%	0 - 30%	1.0
Ethylbenzene	4.5	4.9	8.9%	0 - 30%	1.0
p,m-Xylene	13.9	14.1	1.4%	0 - 30%	1.2
o-Xylene	8.4	8.6	2.4%	0 - 30%	0.9

	-232c::::		
50.0	50.6	97.1%	39 - 150
50.0	54.8	97.3%	46 - 148
50.0	53.0	97.2%	32 - 160
100	112	98.7%	46 - 148
50.0	56.9	97.4%	46 - 148
	50.0 50.0 100	50.0 54.8 50.0 53.0 100 112	50.0 54.8 97.3% 50.0 53.0 97.2% 100 112 98.7%

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 51004 and 51013 - 51021.

Analyst

Mesthern Walter Review

Ph (505) 632-0615 Fr (800) 362-1879 Fy (505) 632-1865 Ish@apuirotech inc.com apuirotech inc.

abway 64 Farmington NM 87401



Chloride

Client:

Elmridge

Project #:

03056-0161

Sample ID:

Pit - 8.5' Below

Date Reported:

08-03-09

Lab ID#:

51016

Date Sampled:

07-28-09

Sample Matrix:

Soil

Date Received:

07-28-09

Preservative:

Cool

Date Analyzed:

07-30-09

Condition:

Intact

Chain of Custody:

7524

Parameter

Concentration (mg/Kg)

Total Chloride

90

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:

Bisti Coal 17 Com 1.

Analyst

Review

;

Client: Elmridae	ш Р	Project Name / Location:	Location:	J 7	J wg						ANAL	/SIS/	PARAI	ANALYSIS / PARAMETERS	S			
Client Address:()			Save S				<u> </u>			ļ		c					•	
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ACCENT Printing • Form 28-0807

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BENZENE ≤ 0.2 mg/kg, I				N (8015) ≤ 5	00 mg/kg, TPH ((418.1) ≤ 2500) mg/kg, CHI	ORIDES ≤ 500 mg/kg
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BENZENE ≤ 0.2 mg/kg, B	3TEX ≤ 50 mg/l	kg, GRO & DR	O FRACTION	N (8015) ≤ 50	00 mg/kg, TPH (418.1) ≤ 2500	mg/kg, CHL	ORIDES ≤ 1000 mg/kg
'ERMANENT PIT OR 3ENZENE ≤ 0.2 mg/kg, I		/kg, TPH (418.1) ≤ 100 mg/kg					
	TIME	SAMPLE I.D.	LAB NO.	FIEI WEIGHT (g	D 418.1 ANAL mL FREON	VSIS DILUTION	READING	CALC. (mg/kg)
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			6					
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		PJ	SAMPLE ID	READING	CALC. (mg/kg)			·
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Bill of Lading

MANIFEST #_

DATE 7-28-038# 03056-0308 33926

NOH	PHONE: (505) 632-0615 • 5796 U.S. HIGHWAY 64 • FARMINGTON, NEW MEXICO 87401	36 U.S. HIGHWAY (64 • FARMINGTC	ON, NEW ME	EXICO 874	01	DATE 722	8 O) #8¢	28-0-168# U2020-CAROS	
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il the above location has not been added to of mixed with, and is the same material received-from the above mentioned Generator, and "I certify the material hauled from the above loc that no additional materials have been added."

t-well
COMPANY CONTACT
OMPANY

NAME LOKA

PHONE 322-22/

COMPANY FOUNT FOUN

SIGNATURE

DATE_

ACCENT Printing • Form 28-1212

* District \(\)
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.

For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

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

Proposed Attendative Method Fermit of Closure Flan 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: Bisti Coal 17 COM 1
API Number: 3004528379 OCD Permit Number:
U/L or Qtr/Qtr A Section 17 Township 25N Range 12W County: San Juan Center of Proposed Design: Latitude 36.406268 Longitude -108.128514 NAD: 1927 1983 Surface Owner: Federal State Private Tribal Trust or Indian Allotment
2.
Surface Owner: Federal State Private Tribal Trust or Indian Allotment 2.
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_14' x W_15' x D_5.5'
Closed-loop System: Subsection H of 19.15.17.11 NMAC Type of Operation: P&A Drilling a new well Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent) Drying Pad Above Ground Steel Tanks Haul-off Bins Other Drying Pad Unlined Liner type: Thickness mil LLDPE HDPE PVC Other Liner Seams: Welded Factory Other Other Drying Pad Ground Steel Tanks Haul-off Bins PVC Other Drying Pvc 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-off Visible sidewalls and liner Visible sidewalls only Other Liner type: Thicknessmil HDPE PVC Other
s. Alternative Method: Submittal of an exception request is required. Exceptions must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

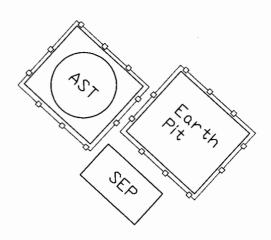
6. Fencing: Subsection D of 19.15.17.11 NMAC (Applies to permanent pits, temporary pits, and below-grade tanks) □ Chain link, six feet in height, two strands of barbed wire at top (Required if located within 1000 feet of a permanent residence, school, institution or church) □ Four foot height, four strands of barbed wire evenly spaced between one and four feet □ Alternate. Please specify 4' tall hogwire fencing with pipe railing 7. Netting: Subsection E of 19.15.17.11 NMAC (Applies to permanent pits and permanent open top tanks) □ Screen □ Netting □ Other □ Other □ Monthly inspections (If netting or screening is not physically feasible)	hospital,
Monthly inspections (if netting or screening is not physically feasible)	
8. Signs: Subsection C of 19.15.17.11 NMAC ☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers ☑ Signed in compliance with 19.15.3.103 NMAC	
Administrative Approvals and Exceptions: Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance. Please check a box if one or more of the following is requested, if not leave blank: Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau 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 appropriate of fice 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.	ppriate 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 ☐ 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
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

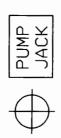
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Checklist: Subsection B of 19.15.17.9 NMAC Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached. Hydrogeologic Report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

Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only: (19.15.17.13 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 se Yes (If yes, please provide the information below)	
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	AC
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 south provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate disconsidered 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.	trict office or may b
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 p 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 can Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC Re-vegetation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC	not be achieved)

19.			
Operator Application Certification: I hereby certify that the information submitted with this application is true, accura	te and complete to the best of my knowledge and belief.		
Name (Print): Ms Amy Mackey	Title: Administrative Manager		
Signature: Lacky	Date: 3/2/09		
E-mail address: amackey1@elmridge.net	Telephone: (505) 632-3476 Ext.201		
20. OCD Approval: ☐ Permit Application (including closure plan) ☐ Closure Plan	un (only) OCD Conditions (see attachment)		
OCD Representative Signature:	Approval Date: Z/10/10		
Title: Envenue to trigger	OCD Permit Number:		
21.	och i cimic (dimer.		
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:			
22.			
Closure Method: ☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternat ☐ If different from approved plan, please explain.	ive Closure Method Waste Removal (Closed-loop systems only)		
23. Closure Report Regarding Waste Removal Closure For Closed-loop Systems Instructions: Please indentify the facility or facilities for where the liquids, drillitwo facilities were utilized.			
	Disposal Facility Permit Number:		
Disposal Facility Name:	Disposal Facility Permit Number:		
Were the closed-loop system operations and associated activities performed on or i Yes (If yes, please demonstrate compliance to the items below) No	n areas that will not be used for future service and operations?		
Required for impacted areas which will not be used for future service and operatio Site Reclamation (Photo Documentation) Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique	ns:		
Closure Report Attachment Checklist: Instructions: Each of the following item mark in the box, that the documents are attached. Proof of Closure Notice (surface owner and division) Proof of Deed Notice (required for on-site closure) Plot Plan (for on-site closures and temporary pits) Confirmation Sampling Analytical Results (if applicable) Waste Material Sampling Analytical Results (required for on-site closure) Disposal Facility Name and Permit Number Soil Backfilling and Cover Installation Re-vegetation Application Rates and Seeding Technique Site Reclamation (Photo Documentation) On-site Closure Location: Latitude			
25.			
Operator Closure Certification: 1 hereby certify that the information and attachments submitted with this closure rebelief. I also certify that the closure complies with all applicable closure requirements.	port is true, accurate and complete to the best of my knowledge and ents and conditions specified in the approved closure plan.		
Name (Print):	Title:		
Signature:	Date:		
E-mail address:	Telephone:		







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SITE MAP ELM RIDGE EXPLORATION BISTI COAL 17 COM 1 SEC 17 TWN 25N RGE 12W SAN JUAN COUNTY, NEW MEXICO

SCALE:	NTS		FIGURE NO. A	REV	
PROJECT NO03056-0136					
			REVISIONS		
NO DAT	TE DV		DESCRI	DTION	

MAP DRWN JPM

ENVIRONMENTAL SCIENTISTS & ENGINEERS

1/16/09 BASE DRWN

EARTHEN PIT CLOSURE PLAN

SITE NAME:

BISTI COAL 17 COM 1
UNIT LETTER A, SECTION 17, TOWNSHIP 25N, RANGE 12W
SAN JUAN COUNTY, NEW MEXICO
LATITUDE 36.406268 LONGITUDE -108.128514

SUBMITTED TO:

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

SUBMITTED BY:

Ms. Amy Mackey
Elm Ridge Exploration
PO Box 156
Bloomfield, New Mexico 87413
(505) 632-3476

FEBRUARY 2009

EARTHEN PIT CLOSURE PLAN ELM RIDGE EXPLORATION BISTI COAL 17 COM 1 SAN JUAN COUNTY, NEW MEXICO

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Introduction

Elm Ridge Exploration would like to submit a closure plan for the earthen pit at the Bisti Coal 17 COM 1 well site located in the NE ¼ NE ¼ of Section 17, 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 Bisti Coal 17 COM 1 well site. The following scope of closure activities has been designed to meet this objective:

- 1) Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will close all former earthen pits prior to the closure date agreed upon by the New Mexico Oil Conservation Division of December 31, 2009.
- 2) In accordance with 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 proximity 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 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 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 shows 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, re-contour and re-vegetate the areas, in

accordance with 19.15.17.13 Subsections G and I NMAC. The operator shall notify the division when it has been re-seeded and when it has achieved successful re-vegetation. For re-vegetation methods, please see attached re-vegetation plan.

b. If soil samples exceed the regulatory standards stated above.

- i. Elm Ridge Exploration, 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.

- 1. The first growing season after closure of a below grade tank or pit, all areas of the well site not utilized for the production of oil and/or gas on a daily basis will be re-seeded with the specified seed mixture.
- 2. The seed mixture used will be certified with no primary or secondary noxious weeds in seed mixtures. The seed labels from each bag shall be available for inspection while seed is being sown.
- 3. The operator shall accomplish seeding by drilling on the contour whenever practical or by other division-approved methods. The operator shall obtain vegetative cover that equals 70% of the native perennial vegetative cover (un-impacted by overgrazing, fire or other intrusion damaging to native vegetation) consisting of at least three native plant species, including at least one grass, but not including noxious weeds, and maintain that cover through two successive growing seasons. During the two growing seasons that prove viability, there shall be no artificial irrigation of the vegetation.
- 4. Hand seeding with hydro-mulch, excelsior netting or mulch with netting is required on the cut/fill slopes. Mulch will be spread at a rate of 2,000-3,000 pounds per acre.
- 5. Compacted areas determined by visual inspection will be ripped to a depth of twelve (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 twelve (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.