<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 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

	OPERA	OPERATOR Initial Report I			port		
Name of Company: Elm Ridge Exploration	Contact: An						
	Address: PO Box 156, Bloomfield, NM 87413 Telephone No.: (505) 632-						
Facility Name: Bisti Coal 29-2 Facility Type: Gas V							
Surface Owner: Federal Mineral Own	er:	Lease No.: NM 36585					
LOCATION OF RELEASE							
	orth/South Line	Feet from the	East/West Line	County	\neg		
N 29 25N 12W 1020	FSL	1415	FWL	San Juan			
Latitude: 36.367723 Longitude: -108.138872							
NATUI	RE OF REL	EASE					
Type of Release: Produced Water		Release: Unknow	vn Volume I	Recovered: Unknown			
Source of Release: Earth Pit		our of Occurrenc	e: Date and	lour of Discovery: NA			
Was Immediate Notice Given?	Historical	W4 - 0					
Was immediate Notice Given? ☐ Yes ☐ No ☒ Not Requi	lf YES, To	wnom?					
By Whom?	Date and I	lour			\dashv		
Was a Watercourse Reached?			he Watercourse	otaroourga			
☐ Yes ⊠ No	11 125, 11	If YES, Volume Impacting the Watercourse.					
If a Watercourse was Impacted, Describe Fully.*							
Describe Cause of Problem and Remedial Action Taken.*							
Produced Water from a gas well at the mentioned location formerly discharged into an earthen pit on location. The well has been altered to no longer drain							
into an earthen pit, but instead into an Above Ground Storage Tank (A		,					
Describe Area Affected and Cleanup Action Taken.*							
Blow sand was removed from the earthen pit, and approximately three	e (3) cubic vards	of 'production slu	dge' was removed	from the earthen pit. A five			
(5)-point composite sample was collected from approximately one (1)	foot below the e	arthen pit once it v	was removed. The	sample was analyzed in the			
field for total petroleum hydrocarbons (TPH) via USEPA Method 418							
and for total chlorides via USEPA Method 4500B. The sample return	ed results below	the 'Pit Rule' stan	dards of 100 mg/k	g TPH, 0.2 mg/kg benzene and	ıd		
50 mg/kg BTEX, but above the 250 mg/kg total chloride standard, confirming that a release had occurred. Elm Ridge Exploration will comply with Rule 29 from this point forward with the local division of the OCD.							
2) Holli wile point for ward with the room division of the GCD.							
I hereby certify that the information given above is true and complete	to the best of my	knowledge and u	nderstand that purs	suant to NMOCD rules and			
regulations all operators are required to report and/or file certain relea	se notifications at	nd perform correc	tive actions for rel	eases which may endanger	1		
public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health							
or the environment. In addition, NMQCD acceptance of a C-141 repo	ort does not reliev	e the operator of r	responsibility for c	ompliance with any other	.		
federal, state, or local aws and/or regulations.							
1 /		OIL CONSERVATION DIVISION					
Signature:	Signature:						
Approved by District Supervisor:							
Printed Name: Ms. Amy Mackey							
Title: Administrative Manager	Approval Da	Approval Date:		Expiration Date:			
E-mail Address: amackey1@elmridge.net	Conditions of	Conditions of Approval:					
1 15 10				Attached			
Date: 6-15-10 Phone: 505-632-3476 Ext 201							

Elm Ridge Exploration Bisti Coal 29-2 Earth Pit Closure Project No. 03056-0174 Closure Date: 8/17/09

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 Bisti Coal 29-2 well site is August 17, 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 the earthen pit closure activities. Evidence of mailing of the notice to the address of the surface owner shown in the county tax records is sufficient to demonstrate compliance with this requirement. Closure activities that will take place on tribal land will have notifications sent by certified mail, return receipt requested, to the appropriate tribal office. Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will notify the Bureau of Land Management (BLM) of closure activities for wells located on federal land per a Sundry Notice, as in accordance with 19.15.17.13 Subsection J Paragraph (1) NMAC. All notices will be sent in such a way that the surface owner will receive notice at least 24 hours prior to the beginning of closure activities.

Notification was provided to the Bureau of Land Management on August 13, 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 consistency of the material removed, as in accordance with 19.15.17.13 Subsection C Paragraph (1) NMAC.
 - On August 17, 2009, approximately three (3) cubic yards of production sludge was removed from the earthen pit and disposed of at Envirotech's NMOCD permitted soil remediation facility, Landfarm #2, Permit # NM-01-0011; see attached *Bill of Lading*.
- 7) Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will remove all on-site equipment associated with this earthen pit unless it is required for some other purpose, as in accordance with 19.15.17.13 Subsection C Paragraph (2) NMAC. The equipment that meets the requirements of 19.15.9.712 Subsection A NMAC and 19.15.9.712 Subsection D Paragraph (1) will be disposed of at San Juan County Regional Landfill. Waste that is classified by 19.15.9.712 Subsection D Paragraph (2) will be sampled accordingly to determine acceptance of this material at the San Juan County Regional Landfill. Waste that is unable to be accepted at the San Juan County Regional Landfill will be submitted to the OCD on a case-by-case basis in accordance with Paragraph (3) of Subsection D of 19.15.9.712.
 - All on-site equipment will be used for the continued operation of the Bisti Coal 29-2 well site; see attached *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 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 and the 50 mg/kg BTEX standard, but above the 250 mg/kg total chloride standard, confirming that a release did occur. Elm Ridge Exploration will comply with Rule 29 from this point forward with the local division of the OCD.

NAME	Benzene	BTEX	Chlorides	ТРН
Pit Rule	0.2 mg/kg	50 mg/kg	250 mg/kg	100 mg/kg
Standard				
Earth Pit Comp 1'	< 0.0009 mg/kg	< 0.005 mg/kg	270 mg/kg	96 mg/kg
Below Pit				
Background #1@	NS	NS	10 mg/kg	NS
surface				
Background #2 @	NS	NS	110 mg/kg	NS
2' BGS				

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

Elm Ridge Exploration Bisti Coal 29-2 Earth Pit Closure Project No. 03056-0174 Closure Date: 8/17/09

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 above background concentration of chlorides, as in accordance with 19.15.17.13 Subsection C Paragraph (3) NMAC.
 - i. Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, shall submit a Form C-141 with the laboratory results so that the division may review the results to determine if additional delineation is required in accordance with Paragraph (4) of Subsection C of 19.15.17.13 NMAC.

Completed Form C-141 is attached for your review.

ii. Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will backfill the excavation or impacted area with non-waste containing, earthen material, in accordance with 19.15.17.13 Subsection E Paragraph (6) NMAC. A soil cover shall be installed for all backfilled excavations consisting of the background thickness of topsoil or one (1) foot of suitable material to establish vegetation at the site, whichever is greater in accordance with Subsections H of 19.15.17.13 NMAC. The operator shall construct the soil cover to the site's existing grade and prevent ponding of water and erosion of the cover material.

Elm Ridge Exploration has backfilled the excavated area with non-waste containing earthen material, and installed a soil cover of at least one (1) foot thick of suitable material to establish vegetation at this site. The soil cover has been graded in such a way that it conforms to the grade of the natural surroundings, and will prevent ponding of water and erosion of the cover material; see attached Site 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 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 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 and the 50 mg/kg BTEX standard, but above the 250 mg/kg total chloride standard, confirming that a release did occur. Elm Ridge Exploration will comply with Rule 29 from this point forward with the local division of the OCD.

Elm Ridge Exploration Bisti Coal 29-2 Earth Pit Closure Project No. 03056-0174 Closure Date: 8/17/09

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.

Elm Ridge Exploration will submit all above mentioned closure documentation to the local division of the OCD.



March 8, 2010

Project No. 03056-0174

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

Phone (505) 476-3487

RE: C-141 Release Notification Form for the Bisti Coal 29-2 Well Site

Dear Mr. Jones,

Please find enclosed the modified C-141 Release Notification Form and additional supporting closure documentation for the Bisti Coal 29-2 well site owned and operated by Elm Ridge Exploration. All closure activities from this point forward will comply with Rule 29 with the district office of the OCD.

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

jmcdaniel@envirotech-inc.com

Enclosures:

Modified C-141 Release Notification Form

Modified Closure Checklist

Cc:

Client File No. 03056