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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Elm Ridge Exploration	Contact: Amy Mackey
Address: P.O. Box 156, Bloomfield, NM 87413	Telephone No.: (505) 632-3476 Ext 201
Facility Name: Buena Suerte 3 G COM 1	Facility Type: Gas Well

Surface Owner: Federal	Mineral Owner:	Lease No.:

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	3	25N	11W	2400	FNL	1820	FEL	San Juan

Latitude 36.430667 **Longitude** -107.988710

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: Unknown	Volume Recovered: Unknown
Source of Release: Earth Pit	Date and Hour of Occurrence: Historical	Date and Hour of Discovery: NA
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	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 (AST).

Describe Area Affected and Cleanup Action Taken.*
From October 7 through October 8, 2009, approximately 434 cubic yards of 'Production Sludge' was removed from the earthen pit to extents of approximately 30 x 40 x 9-12' deep. Sludge was taken to Envirotech's NMOCD permitted soil remediation facility, Landfarm #2. Sludge above 1,000 mg/kg for total chlorides was taken to the Bondad Landfill near Bondad, Colorado. Sludge was removed to visual extents of contamination, where confirmation samples were collected; see attached ***Analytical Results***. A sample was collected at the bottom at 9-12 feet below ground surface, and one (1) composite sample was collected from the each of the four (4) wall at 40' x 30'. Each of these samples were analyzed in the field for TPH via USEPA Method 418.1, and in Envirotech's laboratory for benzene and BTEX via USEPA Method 8021 and for total chlorides via USEPA Method 4500B. Excavation could not continue beyond 40' x 30' due to well site equipment and the edge of the well pad. The composite collected from the west wall returned chloride results of 730 mg/kg, confirming that a release has occurred at the above mentioned site; see ***Analytical Results***. Excavation could not continue due to the separator and the AST on the west wall. Elm Ridge Exploration will comply with Rule 29 from this point forward with the district office of the OCD.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Ms. Amy Mackey	Approved by District Supervisor:	
Title: Administrative Manager	Approval Date:	Expiration Date:
E-mail Address: amackey1@elmridge.net	Conditions of Approval:	Attached ☐
Date: 6/15/10 Phone: 505-632-3476 Ext 201		

* Attach Additional Sheets If Necessary

envirotech

February 9, 2010 Project No. 03056-0189

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 BUENA SUERTE 3 G COM 1 WELL SITE

Dear Mr. Jones,

Please find enclosed a C-141 Release Notification Form and additional supporting closure documentation for the Buena Suerte 3 G COM 1 well site owned and operated by Elm Ridge Exploration.

The previous additional 'Closure Plan' submitted by Envirotech, Inc. for Elm Ridge Exploration was a remediation plan, and not an alternative closure plan. 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.

RECEIVED OCD
2010 JUN 18 A 11: 17

Respectfully Submitted,
ENVIROTECH, INC.

James McDaniel
Project Scientist
jmcdaniel@envirotech-inc.com

Enclosure: C-141 Release Notification Form
Analytical Results
Bills of Lading
Proof of Notification

Cc: Client File No. 03056

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

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

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: Elm Ridge Exploration	Contact: Amy Mackey
Address: PO Box 156, Bloomfield, NM 87413	Telephone No.: (505) 632-3476 Ext 201
Facility Name: Buena Suerte 3 G COM 1	Facility Type: Gas Well

Surface Owner: Federal	Mineral Owner:	Lease No.:

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	3	25N	11W	2400	FNL	1820	FEL	San Juan

Latitude 36.430667 **Longitude** -107.988710

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: Unknown	Volume Recovered: Unknown
Source of Release: Earth Pit	Date and Hour of Occurrence: Historical	Date and Hour of Discovery: NA
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	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 (AST).

Describe Area Affected and Cleanup Action Taken.*
From October 7 through October 8, 2009, 'Production Sludge' was removed from the earthen pit to extents of approximately 30 x 40 x 9-12' deep. Sludge was removed to visual extents of contamination, where confirmation samples were collected; see attached ***Analytical Results***. A sample was collected at the bottom at 9-12 feet below ground surface, and one (1) composite sample was collected from the each of four the (4) wall at 40' x 30'. Each of these samples were analyzed in the field for TPH via USEPA Method 418.1, and in Envirotech's laboratory for benzene and BTEX via USEPA Method 8021 and for total chlorides via USEPA Method 4500B. Excavation could not continue beyond 40' x 30' due to well site equipment and the edge of the well pad. The composite collected from the west wall returned chloride results of 645 mg/kg above background, confirming that a release has occurred at the above mentioned site; see ***Analytical Results***. Excavation could not continue due to the separator and the AST on the west wall. Please reference the attached Buena Suerte 3 G COM 1 Closure Plan for Elm Ridge Exploration's proposed course of action concerning this release.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Ms. Amy Mackey	Approved by District Supervisor:	
Title: Administrative Manager	Approval Date:	Expiration Date:
E-mail Address: amackey1@elmridge.net	Conditions of Approval:	Attached ☐
Date: 11/11/09 Phone: 505-632-3476 Ext 201		

* Attach Additional Sheets If Necessary

RELEASE CLOSURE PLAN

SITE NAME:

BUENA SUERTE 3 G COM 1
UNIT LETTER G, SECTION 3, TOWNSHIP 25N, RANGE 11W
SAN JUAN COUNTY, NEW MEXICO
LATITUDE 36.430667 LONGITUDE -107.988710

SUBMITTED TO:

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

SUBMITTED BY:

MS. AMY MACKEY
ELM RIDGE EXPLORATION
P.O. BOX 156
BLOOMFIELD, NEW MEXICO 87413
(505) 632-3476 EXT. 201

OCTOBER 2009

INTRODUCTION

The purpose of this release closure plan is to provide the details of activities involved in the closure of the confirmed release from the former earthen pit located at the Buena Suerte 3 G COM 1 well site located in Unit G, Section 3, Township 25N, Range 11W, San Juan County, New Mexico. From October 7 through October 8, 2009, 'production sludge' was removed from the former earthen pit located at the Buena Suerte 3 G COM 1 well site. The 'production sludge' was removed to visual extents of approximately 30' x 40' x 9-12' below the ground surface (BGS). The walls of the earthen pit were excavated to extents of 30' x 40' where excavation could no longer continue due to stability issues from the onsite separator on the west side of the excavation, and the edge of the well location on the other side. One (1) sample was collected from each of the four (4) walls at these extents of excavation, and one (1) sample was collected from the bottom at approximately 9' BGS. Each of the earthen pit samples were analyzed in the field for TPH via USEPA Method 418.1 with each sample returning results below the 100 mg/kg standard required by the 'Pit Rule'. Each of the samples were then collected into four (4)-ounce glass jars, capped headspace free, and transported with ice under chain of custody to Envirotech's laboratory to be analyzed for benzene and BTEX via USEPA Method 8021 and for total chlorides via USEPA Method 4500B. Each of the samples were 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 above background total chlorides standard, except for the sample collected from the west wall. The sample collected from the west wall returned total chloride results of 730 mg/kg. A background sample was collected at this location at approximately two (2) feet below ground surface and analyzed in Envirotech's laboratory for total chlorides via USEPA Method 4500B. The background sample returned results of 85 mg/kg total chlorides. The composite sample taken from the west wall of the excavation is 645 mg/kg above the background level for chlorides determined for this site, confirming that a release has occurred at the Buena Suerte 3 G COM 1 well site.

Closure Plan

Elm Ridge Exploration is proposing to remove the remainder of the chloride contamination during the plugging and abandoning of this well site, due to the fact that the chloride contamination remaining is directly beneath the location of the separator and the above ground storage tank; see ***Figure 2, Site Map***. Elm Ridge Exploration proposes that the remaining chloride contamination does not pose an immediate threat to the environment or human health.

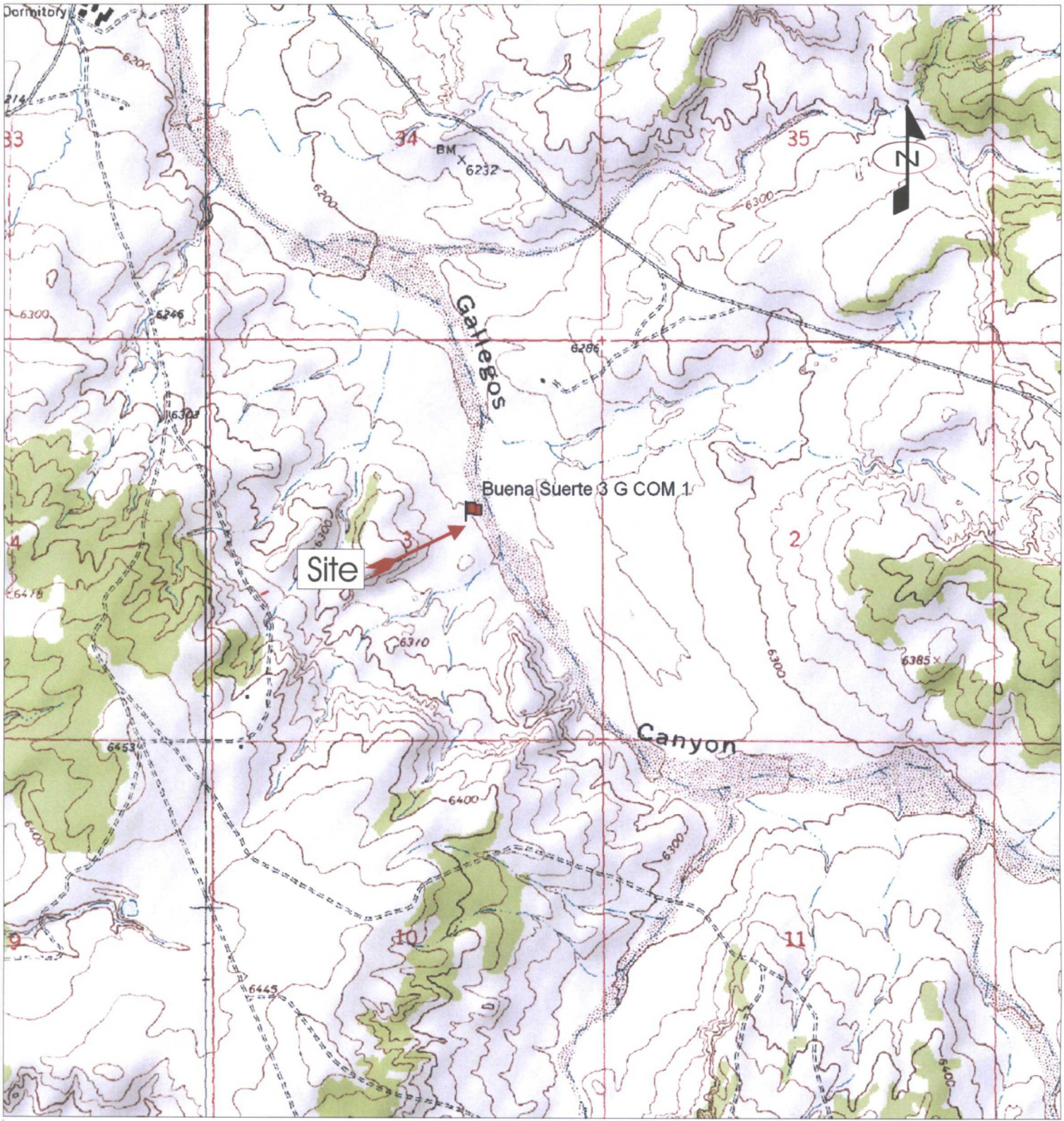
REPORTING

Elm Ridge Exploration will submit a closure report within 60 days following the earthen pit final closure. The closure report will consist of a form C-144 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



Source: Bloomfield, New Mexico 7.5 Minute U.S.G.S. Topographic Quadrangle Map
Scale: 1:24,000 1" = 2000'

Elm Ridge Exploration
Buena Suerte 3 G COM 1
Section 3, Township 25N, Range 11W
San Juan County, New Mexico

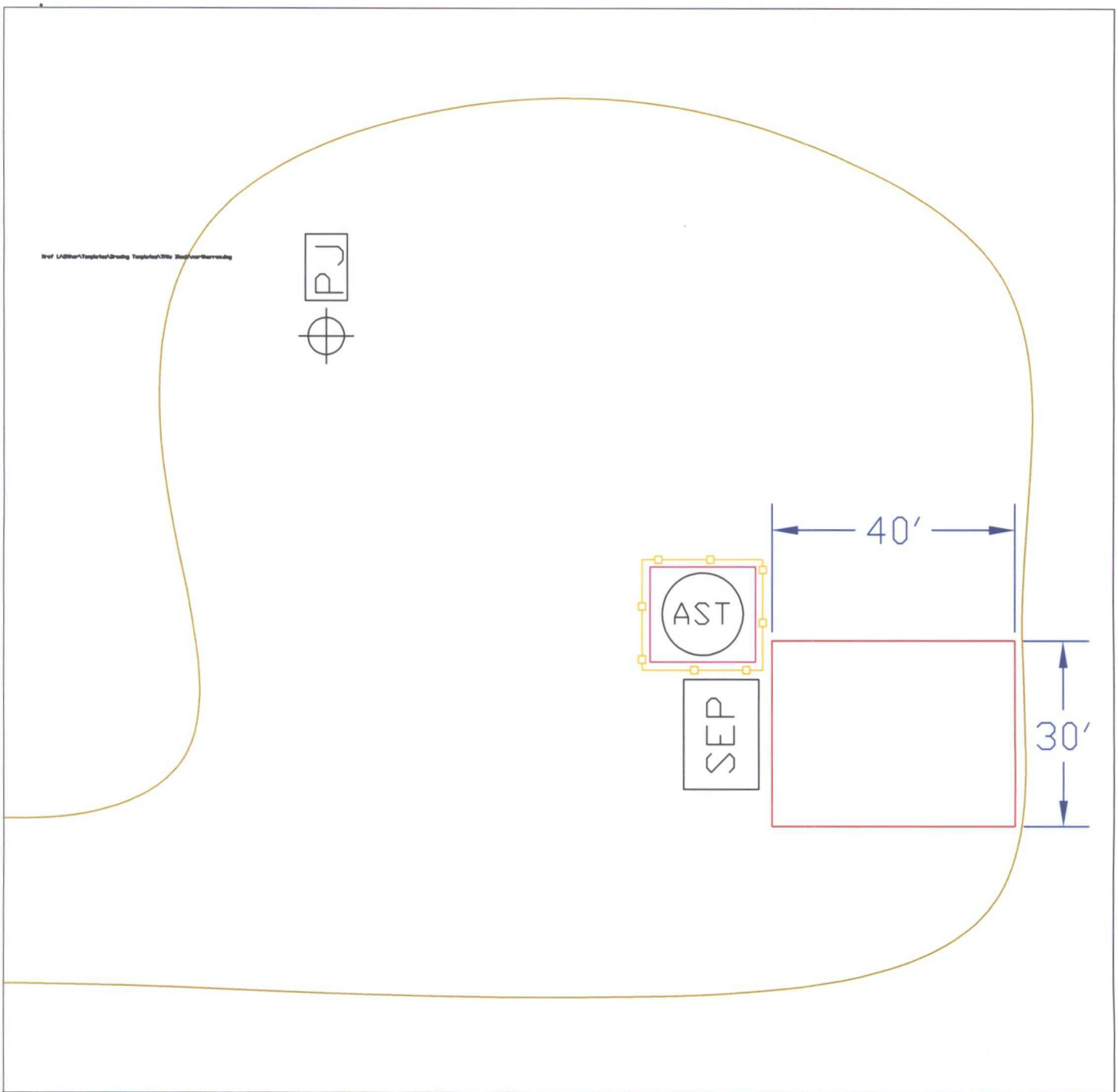
PROJECT No 03056-0189 | Date Drawn: 10/20/09

ENVIROTECH INC.
ENVIRONMENTAL SCIENTISTS & ENGINEERS
5796 U.S. HIGHWAY 64
FARMINGTON, NEW MEXICO 87401
PHONE (505) 632-0615

Vicinity Map

Figure 1

DRAWN BY: James McDaniel | PROJECT MANAGER: James McDaniel



LEGEND

- Well Head
- Excavated Area
- Berm
- Fencing

Site Map

Elm Ridge Exploration
Buena Suerte 3 G COM 1
Section 3, Township 25N, Range 11W

SCALE: NTS	FIGURE NO. 2	REV
PROJECT NOD3056-0189		

REVISIONS

NO.	DATE	BY	DESCRIPTION

MAP DRWN	JPM	DATE	10/20/09		

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5796 U.S. HIGHWAY 64, FARMINGTON, NM 87401 505-632-0615

envirotech

EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Elm Ridge Exploration	Project #:	03056-0189
Sample No.:	1	Date Reported:	10/20/2009
Sample ID:	Bottom @ 9' BGS	Date Sampled:	10/7/2009
Sample Matrix:	Soil	Date Analyzed:	10/7/2009
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**28**	**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: **Buena Suerte 3 G COM 1**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Toni McKnight
Printed

Review

James McDaniel
Printed

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

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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Elm Ridge Exploration	Project #:	03056-0189
Sample No.:	1	Date Reported:	10/20/2009
Sample ID:	West Wall	Date Sampled:	10/7/2009
Sample Matrix:	Soil	Date Analyzed:	10/7/2009
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**20**	**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: **Buena Suerte 3 G COM 1**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Toni McKnight
Printed

Review

James McDaniel
Printed

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CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 7-Oct-09

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	205
	500	
	1000	

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

Analyst

10/20/09
Date

Toni McKnight
Print Name

Review

10/20/09
Date

James McDaniel
Print Name

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Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	ElmRidge	Project #:	03056-0189
Sample ID:	Bottom @ 9' (1' BGS of Pit)	Date Reported:	10-12-09
Laboratory Number:	52026	Date Sampled:	10-07-09
Chain of Custody:	8159	Date Received:	10-07-09
Sample Matrix:	Soil	Date Analyzed:	10-09-09
Preservative:	Cool	Date Extracted:	10-08-09
Condition:	Intact	Analysis Requested:	BTEX

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

ND - Parameter not detected at the stated detection limit.

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

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Earth Pit Closure / Buena Suerte 3G Com 1**

Analyst

Review

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Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	ElmRidge	Project #:	03056-0189
Sample ID:	West Wall	Date Reported:	10-12-09
Laboratory Number:	52027	Date Sampled:	10-07-09
Chain of Custody:	8159	Date Received:	10-07-09
Sample Matrix:	Soil	Date Analyzed:	10-09-09
Preservative:	Cool	Date Extracted:	10-08-09
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: **Earth Pit Closure / Buena Suerte 3G Com 1**

Analyst

Review

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Analytical Laboratory

EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	10-09-BT QA/QC	Date Reported:	10-12-09
Laboratory Number:	52016	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-09-09
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc:	Detect. Limit
Benzene	1.0584E+006	1.0605E+006	0.2%	ND	0.1
Toluene	9.6825E+005	9.7019E+005	0.2%	ND	0.1
Ethylbenzene	8.6369E+005	8.6542E+005	0.2%	ND	0.1
p,m-Xylene	2.1551E+006	2.1594E+006	0.2%	ND	0.1
o-Xylene	8.1825E+005	8.1989E+005	0.2%	ND	0.1

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	ND	ND	0.0%	0 - 30%	0.9
Toluene	ND	ND	0.0%	0 - 30%	1.0
Ethylbenzene	ND	ND	0.0%	0 - 30%	1.0
p,m-Xylene	ND	ND	0.0%	0 - 30%	1.2
o-Xylene	ND	ND	0.0%	0 - 30%	0.9

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	ND	50.0	48.8	97.6%	39 - 150
Toluene	ND	50.0	45.8	91.6%	46 - 148
Ethylbenzene	ND	50.0	48.7	97.4%	32 - 160
p,m-Xylene	ND	100	99.8	99.8%	46 - 148
o-Xylene	ND	50.0	49.9	99.8%	46 - 148

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for Samples 52016 - 52018 and 52025 - 52027.**

Analyst

Review

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Analytical Laboratory

Chloride

Client:	Elm Ridge	Project #:	03056-0189
Sample ID:	Bottom @ 9' (1' BGS of Pit)	Date Reported:	10-12-09
Lab ID#:	52026	Date Sampled:	10-07-09
Sample Matrix:	Soil	Date Received:	10-07-09
Preservative:	Cool	Date Analyzed:	10-09-09
Condition:	Intact	Chain of Custody:	8159

Parameter	Concentration (mg/Kg)
Total Chloride	**108**

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983. Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Earth Pit Closure / Buena Suerte 3G Com 1.**

Analyst

Review

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Analytical Laboratory

Chloride

Client:	Elm Ridge	Project #:	03056-0189
Sample ID:	West Wall	Date Reported:	10-13-09
Lab ID#:	52027	Date Sampled:	10-07-09
Sample Matrix:	Soil	Date Received:	10-07-09
Preservative:	Cool	Date Analyzed:	10-13-09
Condition:	Intact	Chain of Custody:	8159

Parameter	Concentration (mg/Kg)
Total Chloride	**730**

Reference: U.S.E.P.A., 4500B, "Methods for Chemical Analysis of Water and Wastes", 1983.
Standard Methods For The Examination of Water And Waste Water", 18th ed., 1992.

Comments: **Earth Pit Closure / Buena Suerte 3G Com 1.**

Analyst

Review

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

CHAIN OF CUSTODY RECORD

8159

Client: Elm Ridge	Project Name / Location: Earth Pit Closure / Buena Suerte 36 Com 1
Client Address:	Sampler Name: Toni McKnight
Client Phone No.:	Client No.: 03056-0189

ANALYSIS / PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative $HgCl_2$	Preservative HCl	Preservative Cool	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
Bottom @ 9' (11 BGS of Pit)	10/7/09	10:15	52026	(Soil) Sludge Solid Aqueous	1/4 oz			✓		✓								✓				✓	✓
West Wall	10/7/09	10:15	52027	(Soil) Sludge Solid Aqueous	1/4 oz			✓		✓								✓				✓	✓
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
Toni McKnight	10/7/09	17:15	Kendall Aguilar	10/7/09	17:15
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

envirotech
Analytical Laboratory

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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Elm Ridge Exploration	Project #:	03056-0189
Sample No.:	1	Date Reported:	10/20/2009
Sample ID:	North Wall	Date Sampled:	10/8/2009
Sample Matrix:	Soil	Date Analyzed:	10/8/2009
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**ND**	**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: **Buena Suerte 3 G COM 1**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Robyn Jones
Printed

Review

James McDaniel
Printed

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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Elm Ridge Exploration	Project #:	03056-0189
Sample No.:	2	Date Reported:	10/20/2009
Sample ID:	East Wall	Date Sampled:	10/8/2009
Sample Matrix:	Soil	Date Analyzed:	10/8/2009
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**12**	**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: **Buena Suerte 3 G COM 1**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Robyn Jones
Printed

Review

James McDaniel
Printed

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EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Client:	Elm Ridge Exploration	Project #:	03056-0189
Sample No.:	3	Date Reported:	10/20/2009
Sample ID:	South Wall	Date Sampled:	10/8/2009
Sample Matrix:	Soil	Date Analyzed:	10/8/2009
Preservative:	Cool	Analysis Needed:	TPH-418.1
Condition:	Cool and Intact		

Parameter	Concentration (mg/kg)	Det. Limit (mg/kg)
Total Petroleum Hydrocarbons	**ND**	**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: **Buena Suerte 3 G COM 1**

Instrument calibrated to 200 ppm standard. Zeroed before each sample

Analyst

Robyn Jones
Printed

Review

James McDaniel
Printed

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CONTINUOUS CALIBRATION
EPA METHOD 418.1
TOTAL PETROLEUM
HYDROCARBONS

Cal. Date: 8-Oct-09

Parameter	Standard Concentration mg/L	Concentration Reading mg/L
TPH	100	
	200	199
	500	
	1000	

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

Analyst

10/20/09
Date

Robyn Jones
Print Name

Review

10/20/09
Date

James McDaniel
Print Name

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Elm Ridge	Project #:	03056-0189
Sample ID:	North Wall	Date Reported:	10-14-09
Laboratory Number:	52033	Date Sampled:	10-08-09
Chain of Custody:	8164	Date Received:	10-08-09
Sample Matrix:	Soil	Date Analyzed:	10-13-09
Preservative:	Cool	Date Extracted:	10-12-09
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: **Buena Suerte 3G Com 1**

Analyst

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Elm Ridge	Project #:	03056-0189
Sample ID:	East Wall	Date Reported:	10-14-09
Laboratory Number:	52034	Date Sampled:	10-08-09
Chain of Custody:	8164	Date Received:	10-08-09
Sample Matrix:	Soil	Date Analyzed:	10-13-09
Preservative:	Cool	Date Extracted:	10-12-09
Condition:	Intact	Analysis Requested:	BTEX

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

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96.0 %**
	1,4-difluorobenzene	**96.0 %**
	Bromochlorobenzene	**96.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Buena Suerte 3G Com 1**

Analyst

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	Elm Ridge	Project #:	03056-0189
Sample ID:	South Wall	Date Reported:	10-14-09
Laboratory Number:	52035	Date Sampled:	10-08-09
Chain of Custody:	8164	Date Received:	10-08-09
Sample Matrix:	Soil	Date Analyzed:	10-13-09
Preservative:	Cool	Date Extracted:	10-12-09
Condition:	Intact	Analysis Requested:	BTEX

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

ND - Parameter not detected at the stated detection limit.

Surrogate Recoveries:	Parameter	Percent Recovery
	Fluorobenzene	**96.0 %**
	1,4-difluorobenzene	**96.0 %**
	Bromochlorobenzene	**96.0 %**

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Method 8021B, Aromatic Volatile Organics, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.

Comments: **Buena Suerte 3G Com 1**

Analyst

Review

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EPA METHOD 8021
AROMATIC VOLATILE ORGANICS

Client:	N/A	Project #:	N/A
Sample ID:	10-13-BT QA/QC	Date Reported:	10-14-09
Laboratory Number:	52031	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Preservative:	N/A	Date Analyzed:	10-13-09
Condition:	N/A	Analysis:	BTEX

Calibration and Detection Limits (ug/L)	I-Cal RF:	C-Cal RF:	%Diff. Accept. Range 0 - 15%	Blank Conc	Detect. Limit
Benzene	9.1003E+005	9.1185E+005	**0.2%**	**ND**	**0.1**
Toluene	8.3054E+005	8.3220E+005	**0.2%**	**ND**	**0.1**
Ethylbenzene	7.4509E+005	7.4658E+005	**0.2%**	**ND**	**0.1**
p,m-Xylene	1.8294E+006	1.8331E+006	**0.2%**	**ND**	**0.1**
o-Xylene	7.0035E+005	7.0175E+005	**0.2%**	**ND**	**0.1**

Duplicate Conc. (ug/Kg)	Sample	Duplicate	%Diff.	Accept Range	Detect. Limit
Benzene	**1.1**	**1.0**	**9.1%**	**0 - 30%**	**0.9**
Toluene	**28.8**	**25.5**	**11.5%**	**0 - 30%**	**1.0**
Ethylbenzene	**12.8**	**12.6**	**1.6%**	**0 - 30%**	**1.0**
p,m-Xylene	**79.6**	**78.3**	**1.6%**	**0 - 30%**	**1.2**
o-Xylene	**32.6**	**31.3**	**4.0%**	**0 - 30%**	**0.9**

Spike Conc. (ug/Kg)	Sample	Amount Spiked	Spiked Sample	% Recovery	Accept Range
Benzene	**1.1**	**50.0**	**50.6**	**99.0%**	**39 - 150**
Toluene	**28.8**	**50.0**	**76.3**	**96.8%**	**46 - 148**
Ethylbenzene	**12.8**	**50.0**	**62.5**	**99.5%**	**32 - 160**
p,m-Xylene	**79.6**	**100**	**182**	**101%**	**46 - 148**
o-Xylene	**32.6**	**50.0**	**82.3**	**99.6%**	**46 - 148**

ND - Parameter not detected at the stated detection limit.

References: Method 5030B, Purge-and-Trap, Test Methods for Evaluating Solid Waste, SW-846, USEPA, December 1996.
Method 8021B, Aromatic and Halogenated Volatiles by Gas Chromatography Using Photoionization and/or Electrolytic Conductivity Detectors, SW-846, USEPA December 1996.

Comments: **QA/QC for Samples 52031 - 52035, 52039 - 52040, 52046, and 52047.**

Analyst

Review

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Chloride

Client:	Elm Ridge	Project #:	03056-0189
Sample ID:	North Wall	Date Reported:	10-14-09
Lab ID#:	52033	Date Sampled:	10-08-09
Sample Matrix:	Soil	Date Received:	10-08-09
Preservative:	Cool	Date Analyzed:	10-13-09
Condition:	Intact	Chain of Custody:	8164

Parameter	Concentration (mg/Kg)
Total Chloride	**80**

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: **Buena Suerte 3G Com 1.**

Analyst

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Chloride

Client:	Elm Ridge	Project #:	03056-0189
Sample ID:	East Wall	Date Reported:	10-14-09
Lab ID#:	52034	Date Sampled:	10-08-09
Sample Matrix:	Soil	Date Received:	10-08-09
Preservative:	Cool	Date Analyzed:	10-13-09
Condition:	Intact	Chain of Custody:	8164

Parameter	Concentration (mg/Kg)
Total Chloride	**180**

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: **Buena Suerte 3G Com 1.**

Analyst

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Chloride

Client:	Elm Ridge	Project #:	03056-0189
Sample ID:	South Wall	Date Reported:	10-14-09
Lab ID#:	52035	Date Sampled:	10-08-09
Sample Matrix:	Soil	Date Received:	10-08-09
Preservative:	Cool	Date Analyzed:	10-13-09
Condition:	Intact	Chain of Custody:	8164

Parameter	Concentration (mg/Kg)
Total Chloride	**6**

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: **Buena Suerte 3G Com 1.**

Analyst

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CHAIN OF CUSTODY RECORD

8164

Client:	Project Name / Location:
Elm Ridge	Buena Suerte 3G COM 1
Client Address:	Sampler Name:
	R. Jones
Client Phone No.:	Client No.:
	030546-0189

ANALYSIS / PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative HgCl2	Preservative HCl	Preservative Cool	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
North Wall	10/8/09	10:36	52033	(Soil) Solid Sludge Aqueous	1-4oz			X		X								X				✓	✓
East Wall	10/8/09	1315	52034	(Soil) Solid Sludge Aqueous	1-4oz			X		X								X				✓	✓
South Wall	10/8/09	1445	52035	(Soil) Solid Sludge Aqueous	1-4oz			X		X								X				✓	✓
				Soil Solid Sludge Aqueous																			
				Soil Solid Sludge Aqueous																			
				Soil Solid Sludge Aqueous																			
				Soil Solid Sludge Aqueous																			
				Soil Solid Sludge Aqueous																			
				Soil Solid Sludge Aqueous																			
				Soil Solid Sludge Aqueous																			

	Date	Time		Date	Time
Relinquished by: (Signature)	10/8/09	16:40	Received by: (Signature)	10/8/09	16:40
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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Chloride

Client:	Elm Ridge	Project #:	03056-0189
Sample ID:	Background	Date Reported:	10-19-09
Lab ID#:	52108	Date Sampled:	10-14-09
Sample Matrix:	Soil	Date Received:	10-15-09
Preservative:	Cool	Date Analyzed:	10-16-09
Condition:	Intact	Chain of Custody:	8200

Parameter	Concentration (mg/Kg)
Total Chloride	**85**

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: **Buena Suerte 3G Com 1.**

Analyst

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CHAIN OF CUSTODY RECORD

8200

Client: Elmridge	Project Name / Location: Buena Suerte 3GC OM1
Client Address:	Sampler Name: R. Jones
Client Phone No.:	Client No. 03056-0189

ANALYSIS / PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative $HgCl_2$	Preservative HCl	Preservative Cool	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
Backround	10/14/09	1212	52108	(Soil) Solid Sludge Aqueous	1-4oz			X										✓				✓	✓
				Soil Solid Sludge Aqueous																			
				Soil Solid Sludge Aqueous																			
				Soil Solid Sludge Aqueous																			
				Soil Solid Sludge Aqueous																			
				Soil Solid Sludge Aqueous																			
				Soil Solid Sludge Aqueous																			
				Soil Solid Sludge Aqueous																			
				Soil Solid Sludge Aqueous																			
				Soil Solid Sludge Aqueous																			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	10/15/09	8:37	[signature]	10/15/09	837
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

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Requested Disposal Facility: _____

Waste Profile #	
WCA Sales Rep:	
Date:	

I. Generator Information

Generator Name: Elm Ridge Exploration			
Generator Site Address: Buena Suerte 3G Com 1, Section 3, Township 25N, Range 11W			
City: Near Counselor	County: San Juan	State: NM	Zip: 87018
State ID/Reg No:	State Approval/Waste Code: (if applicable)		SIC Code:
Generator Mailing Address (if different): P.O. Box 156			
City: Bloomfield	County: San Juan	State: NM	Zip: 87413
Generator Contact Name: Amy Mackey			
Phone Number: 505-632-3476	Fax Number:		

II. Transporter Information

Transporter Name: Four-Four Construction		Contact Name: Scott Stronk	
Transporter Address: 3000 Bloomfield Hwy			
City: Farmington	County: San Juan	State: NM	Zip: 87401
Phone Number: 327-6041	Fax Number:	State Transportation Number:	

III. Billing Information

Bill To: Elm Ridge Exploration		Contact Name: Amy Mackey	
Billing Address: P.O. Box 156			
City: Bloomfield	State: NM	Zip: 87413	Phone Number: 632-3476

IV. Waste Stream Information

Name of Waste:	Chloride Soil
Process Generating Waste:	Earth Pit Closure and Excavation

Type of Waste	X INDUSTRIAL PROCESS WASTE		☐ POLLUTION CONTROL WASTE		
Physical State:	X SOLID	☐ SEMI SOLID	☐ POWDER	☐ LIQUID	☐ OTHER:
Method of Shipment:	X Bulk	☐ Drum	☐ Bagged	☐ Other	
Estimated Annual Volume:	CUBIC YARDS: 20	TONS:	GALLONS	OTHER:	
Frequency:	X ONE TIME	☐ DAILY	☐ WEEKLY	☐ MONTHLY	☐ OTHER
Special Handling Instructions:					

V. Representative Sample Certification

Is the representative sample collected to prepare this profile and laboratory analysis, collected in accordance with U.S. EPA 40 CFR 261.20(c) guidelines or equivalent method?	X YES	☐ NO	☐ NA
Sample Date: 9/2/09	Type of Sample: X COMPOSITE SAMPLE	☐ GRAB SAMPLE	
Laboratory: Envirotech	Sample ID Number: 5515		
Sampler's Employer: Envirotech			
Sampler's Name (printed): Toni Mcknight	Signature: Toni Mcknight		

Waste Profile #

Characteristic Components	% by Weight (range)
1. Chlorides	0.00135 - 0.002 ppm
2. Soil	99 - 100 %
3.	
4.	
5.	

Color	Odor (describe)	Free Liquids	% Solids	pH	Flash Point
Brown/Gray	Soil	☐YES OR ☒NO Content %	100%		>7

Attach Laboratory Analytical Report (and/or Material Safety Data Sheet) Including Required Parameters Provided for this Profile

Does this waste or generating process contain regulated concentrations of the following Pesticides and/or Herbicides: Chlordane, Endrin, Heptachlor (and its epoxides), Lindane, Methoxychlor, Toxaphene, 2,4-D, or 2,4,5-TP Silvex as defined in 40 CFR 261.33?	☐YES OR ☒NO
Does this waste or generating process cause it to exceed OSHA exposure limits from high levels of Hydrogen Sulfide or Hydrogen Cyanide as defined in 40 CFR 261.23?	☐YES OR ☒NO
Does this waste contain regulated concentrations of Polychlorinated Biphenyls (PCBs) as defined in 40 CFR Part 761?	☐YES OR ☒NO
Does this waste contain regulated concentrations of listed hazardous wastes defined in 40 CFR 261.31, 261.32, 261.33, including RCRA F-Listed Solvents?	☐YES OR ☒NO
Does this waste contain regulated concentrations of 2,3,7,8-Tetrachlorodibenzodioxin (2,3,7,8-TCDD), or any other dioxin as defined in 40 CFR 261.31?	☐YES OR ☒NO
Is this a regulated Toxic Material as defined by Federal and/or State regulations?	☐YES OR ☒NO
Is this a regulated Reactive Waste as defined by Federal and/or State regulations?	☐YES OR ☒NO
Is this a regulated Medical or Infectious Waste as defined by Federal and/or State regulations?	☐YES OR ☒NO
Is this waste generated at a Federal Superfund Clean Up Site?	☐YES OR ☒NO

V. Physical Characteristics of Waste

VI. Generator Certification

I hereby certify that to the best of my knowledge and belief, the information contained herein is a true, complete and accurate description of the waste material being offered for disposal and all known or suspected hazards have been disclosed. All Analytical Results/Material Safety Data Sheets submitted are truthful and complete and are representative of the waste. I further certify that by utilizing this profile, neither myself nor any other employee of the company will deliver for disposal or attempt to deliver for disposal any waste which is classified as toxic waste, hazardous waste or infectious waste, or any other waste material this facility is prohibited from accepting by law. I shall immediately give written notice of any change or condition pertaining to the waste not provided herein. Our company hereby agrees to fully indemnify this disposal facility against any damages resulting from this certification being inaccurate or untrue. I further certify that the company has not altered the form or content of this profile sheet as provided by Waste Corporation. The undersigned individual warrants that he/she is authorized to sign this document on behalf of the Generator.

Anna Hadley, Adm. Manager — Authorized Representative's Name And Title (Printed)

Elm Ridge Excavation — Company Name

Authorized Representative Signature

9/14/09 — Date

VII. Facility Approval (Location)

☐ Approved ☐ Rejected Expiration: _____

Conditions:

Name, Title Signature Date

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TRACE METAL ANALYSIS

Client:	ElmRidge	Project #:	03056-0189
Sample ID:	Soil Composite	Date Reported:	09-03-09
Laboratory Number:	51515	Date Sampled:	09-02-09
Chain of Custody:	7889	Date Received:	09-02-09
Sample Matrix:	Soil	Date Analyzed:	09-03-09
Preservative:	Cool	Date Digested:	09-03-09
Condition:	Intact	Analysis Needed:	Total Metals

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Arsenic	**0.043**	**0.001**
Barium	**3.41**	**0.001**
Cadmium	**0.001**	**0.001**
Chromium	**0.068**	**0.001**
Lead	**0.338**	**0.001**
Mercury	**0.005**	**0.001**
Selenium	**0.004**	**0.001**
Silver	**ND**	**0.001**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectroscopy, SW-846, USEPA, December 1996.

Note: Regulatory Limits based on 40 CFR part 261 subpart C section 261.24, August 24, 1998.

Comments: **Earth Pit Closure / Buena Suerte 3G Com #1.**

Analyst

Review

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TRACE METAL ANALYSIS
Quality Control / Quality Assurance Report

Client:	QA/QC	Project #:	QA/QC
Sample ID:	09-03 TM QA/AC	Date Reported:	09-03-09
Laboratory Number:	51515	Date Sampled:	N/A
Sample Matrix:	Soil	Date Received:	N/A
Analysis Requested:	Total RCRA Metals	Date Analyzed:	09-03-09
Condition:	N/A	Date Digested:	09-03-09

Blank & Duplicate Conc. (mg/Kg)	Instrument Blank (mg/Kg)	Method Blank	Detection Limit	Sample	Duplicate	% Diff.	Acceptance Range
Arsenic	**ND**	**ND**	**0.001**	**0.043**	**0.044**	**3.0%**	**0% - 30%**
Barium	**ND**	**ND**	**0.001**	**3.41**	**3.36**	**1.5%**	**0% - 30%**
Cadmium	**ND**	**ND**	**0.001**	**0.001**	**0.001**	**0.0%**	**0% - 30%**
Chromium	**ND**	**ND**	**0.001**	**0.068**	**0.069**	**2.1%**	**0% - 30%**
Lead	**ND**	**ND**	**0.001**	**0.338**	**0.384**	**13.6%**	**0% - 30%**
Mercury	**ND**	**ND**	**0.001**	**0.005**	**0.005**	**0.0%**	**0% - 30%**
Selenium	**ND**	**ND**	**0.001**	**0.004**	**0.004**	**0.0%**	**0% - 30%**
Silver	**ND**	**ND**	**0.001**	**ND**	**ND**	**0.0%**	**0% - 30%**

Spike Conc. (mg/Kg)	Spike Added	Sample	Spiked Sample	Percent Recovery	Acceptance Range
Arsenic	**0.250**	**0.043**	**0.305**	**104%**	**80% - 120%**
Barium	**0.500**	**3.41**	**3.77**	**96.5%**	**80% - 120%**
Cadmium	**0.250**	**0.001**	**0.243**	**96.9%**	**80% - 120%**
Chromium	**0.500**	**0.068**	**0.548**	**96.5%**	**80% - 120%**
Lead	**0.500**	**0.338**	**0.759**	**90.6%**	**80% - 120%**
Mercury	**0.100**	**0.005**	**0.093**	**88.8%**	**80% - 120%**
Selenium	**0.100**	**0.004**	**0.089**	**85.1%**	**80% - 120%**
Silver	**0.100**	**ND**	**0.086**	**86.3%**	**80% - 120%**

ND - Parameter not detected at the stated detection limit.

References: Method 3050B, Acid Digestion of Sediments, Sludges and Soils. SW-846, USEPA, December 1996.

Method 6010B, Analysis of Metals by Inductively Coupled Plasma Atomic Emmision Spectorscopy, SW-846, USEPA, December 1996.

Comments: **QA/QC for Samples 51498, 51511, and 51515.**

Analyst

Review

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

envirotech
Analytical Laboratory

Chloride

Client:	Elm Ridge	Project #:	03056-0189
Sample ID:	Soil Composite	Date Reported:	09-04-09
Lab ID#:	51515	Date Sampled:	09-02-09
Sample Matrix:	Soil	Date Received:	09-02-09
Preservative:	Cool	Date Analyzed:	09-04-09
Condition:	Intact	Chain of Custody:	7889

Parameter	Concentration (mg/Kg)
Total Chloride	**1,850**

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: **Eart Pit Closure / Buena Suerte 3G Com #1.**

Analyst

Review

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

envirotech
Analytical Laboratory

Chloride

Client:	Elm Ridge	Project #:	03056-0189
Sample ID:	Background	Date Reported:	09-04-09
Lab ID#:	51516	Date Sampled:	09-02-09
Sample Matrix:	Soil	Date Received:	09-02-09
Preservative:	Cool	Date Analyzed:	09-04-09
Condition:	Intact	Chain of Custody:	7889

Parameter	Concentration (mg/Kg)
Total Chloride	**45**

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: **Eart Pit Closure / Buena Suerte 3G Com #1.**

Analyst

Review

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

CHAIN OF CUSTODY RECORD

7989

Client: Elm Ridge Exploration	Project Name / Location: Earth pit Closure / Buena Suerte 36 Com #1
Client Address:	Sampler Name: Tori McKnight
Client Phone No.:	Client No.: 03056-0189

ANALYSIS / PARAMETERS

Sample No./ Identification	Sample Date	Sample Time	Lab No.	Sample Matrix	No./Volume of Containers	Preservative $HgCl_2$	Preservative HCl	Preservative ✓	TPH (Method 8015)	BTEX (Method 8021)	VOC (Method 8260)	RCRA 8 Metals	Cation / Anion	RCI	TCLP with H/P	PAH	TPH (418.1)	CHLORIDE				Sample Cool	Sample Intact
Soil Composite	9/2/09	15:00	51515	Soil (circled) Sludge Solid Aqueous	1/4oz			✓				✓						✓				✓	✓
Background	9/2/09	10:30	51516	Soil (circled) Sludge Solid Aqueous	1/4oz			✓										✓				✓	✓
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			
				Soil Sludge Solid Aqueous																			

Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time
[signature]	9/2/09	17:52	[signature]	9/2/09	1752
Relinquished by: (Signature)			Received by: (Signature)		
Relinquished by: (Signature)			Received by: (Signature)		

envirotech
Analytical Laboratory

5796 US Highway 64 • Farmington, NM 87401 • 505-632-0615 • lab@envirotech-inc.com

ACCENT Printing • Form 28-0807

envirotech

Bill of Lading

MANIFEST # 34476

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

DATE 10-9-08 JOB# 03056-0189

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Envirotech	Elm Ridge Bueno Sueste	Clean Fill Dirt	—	12	—	4-24	78	2:45	
2	" "	3-6 Com #1 " "	" "	—	12	—	4-4	75	2:45	
					24					

RESULTS:

	CHLORIDE TEST	
	PAINT FILTER TEST	

LANDFARM EMPLOYEE:

NOTES: Clean Fill

ENTERED OCT 12 2008

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

NAME Armando Isaac COMPANY Elm Ridge SIGNATURE

COMPANY CONTACT Mark PHONE 327 2711 DATE 10/9/08

ACCENT Printing • Form 28-1212

envirotech

Bill of Lading

MANIFEST # 34473

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

DATE 10-9-09 JOB# 03056-0189

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Elmridge Bueno Suerte	LFII	Cont + SO.C	K18	24	-	4-4	74	958	
2	3-G Com #1	"	"	K18	14	-	4-4	78	1000	
3	"	"	"	K18	14	-	4-4	75	1006	
4	"	"	"	K26	24	-	4-4	74	1126	
5	"	"	"	K26	14	-	4-4	78	1130	
6	"	"	"	K26	14	-	4-4	74	1130	
7	"	"	"	K26	14	-	4-4	75	1311	
8	"	"	"	K26	14	-	4-4	78	1315	
9	"	"	"	K26	24	-	4-4	74	1323	
10	"	"	"	K26	14	-	4-4	78	2:45	
11	"	"	"	K26	14	-	4-4	75	2:45	
					184					

RESULTS:

4,268	CHLORIDE TEST	"
	PAINT FILTER TEST	"

LANDFARM EMPLOYEE: Gary Robinson 10/12/09

NOTES: Exempt

ENTERED OCT 12 2009

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

NAME T. McKinney COMPANY ElmRidge SIGNATURE

COMPANY CONTACT [illegible] PHONE 327-2711 DATE 10-9-09

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envirotech

Bill of Lading

MANIFEST # 34472

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

DATE 10-9-09 JOB# 03056-0189

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Envirotech LF II	Elm Ridge Bueno	Clean Fill Soil	—	12	—	4-4	75	845	
2	"	Bueno 36 Com #1	"	—	20	—	4-4	74	845	
3	"	"	"	—	12	—	4-4	78	845	
4	"	"	"	—	20	—	4-4	74	958	
5	"	"	"	—	12	—	4-4	78	1000	
6	"	"	"	—	12	—	4-4	75	1006	
7	"	"	"	—	20	—	4-4	74	1126	
8	"	"	"	—	12	—	4-4	78	1130	
9	"	"	"	—	12	—	4-4	74	1130	
10	"	"	"	—	12	—	4-4	75	1311	
11	"	"	"	—	12	—	4-4	78	1315	
12	"	"	"	—	20	—	4-4	74	1323	

RESULTS:

	CHLORIDE TEST	/
	PAINT FILTER TEST	/

LANDFARM EMPLOYEE: Gary Robinson 10/12/09

NOTES: Clean Fill

ENTERED OCT 12 2009

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

NAME T. McKinney COMPANY Elm Ridge SIGNATURE

COMPANY CONTACT Mark PHONE 327-2711 DATE 10-9-09

envirotech

Bill of Lading

MANIFEST # 34468

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

DATE 10-8-09 JOB# 03056-0189

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Elmridge Guard Station	LFII	Cont Soil	J17	15		4-4	75	1308	
2	S-G Com #1	"	"	J17	15		4-4	178	1409	
3	" "	"	"	J19	15		4-4	75	1417	
					45					

RESULTS:

	CHLORIDE TEST	3
	PAINT FILTER TEST	3

LANDFARM EMPLOYEE: Gary K.

NOTES: Exempt

ENTERED OCT 12 2009

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

NAME _____ COMPANY _____ SIGNATURE _____

COMPANY CONTACT Mack PHONE 327-2711 DATE 10-8-09

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Bill of Lading

MANIFEST # 34467

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

DATE 10-8-09 JOB# 03058-018

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Envirotech LF II	Elmridge Buena	Clean Fill	—	12	—	44	75	1308	
2	"	Suerte 3-G com #1	Soil	—	+2	—	4-4	75 78	1409	
					14					

RESULTS:

CHLORIDE TEST

PAINT FILTER TEST

LANDFARM EMPLOYEE: Gary Robinson

NOTES: Clean Fill

ENTERED OCT 12 2009 10/9/09

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

NAME _____ COMPANY _____ SIGNATURE _____

COMPANY CONTACT Mack PHONE 3272711 DATE 10-8-09

envirotech

Bill of Lading

MANIFEST # 34463

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

DATE 10-8-09 JOB# 03056-0[illegible]

LOAD NO.	COMPLETE DESCRIPTION OF SHIPMENT						TRANSPORTING COMPANY			
	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Envirotech LFH	Elmridge Buena Suerte 3-G Comm.	Clean Fill Soil	—	12	—	4-4	178	751	
2	"	"	"	—	12	—	"	75	800	
3	"	"	"	—	22	—	"	74	800	
4	"	"	"	—	20	—	"	24	824	
5	"	"	"	—	12	—	"	178	1000	
6	"	"	"	—	20	—	"	74	1008	
7	"	"	"	—	12	—	"	75	1012	
8	"	"	"	—	12	—	"	178	1140	
9	"	"	"	—	12	—	"	75	1140	
10	"	"	"	—	20	—	"	74	1143	
11	"	"	"	—	12	—	"	178	1255	
12	"	"	"	—	20	—	"	74	1304	

RESULTS:

/	CHLORIDE TEST	
	PAINT FILTER TEST	/

LANDFARM EMPLOYEE: Gary Robinson 156

NOTES: Clean Fill

ENTERED OCT 12 2009 10/12

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

NAME J. McKinney COMPANY Elm Road SIGNATURE

COMPANY CONTACT Mack PHONE 327-2711 DATE 10-8-09

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Bill of Lading

MANIFEST # 34462

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

DATE 10-8-09 JOB# 03056-0184

LOAD NO.	POINT OF ORIGIN	DESTINATION	MATERIAL	GRID	YDS	BBLS	COMPANY	TRK#	TIME	DRIVER SIGNATURE
1	Elmridge Buena Suerte 3-G com #1	LF II	Cont soil	J 18	13	—	4-4	178	757	[signature]
2	" "	"	"	J 18	13	—	"	75	800	[signature]
3	" "	"	"	J 18	13	—	"	74	800	[signature]
4	" "	"	"	J 18	20	—	"	24	824	[signature]
5	" "	"	"	J 18	13	—	"	178	1000	[signature]
6	" "	"	"	J 18	22	—	"	74	1008	[signature]
7	" "	"	"	J 18	13	—	"	75	1012	[signature]
8	" "	"	"	J 17	13	—	"	178	1140	[signature]
9	" "	"	"	J 17	13	—	"	75	1140	[signature]
10	" "	"	"	J 17	23 165	—	"	74	1143	[signature]
				J 17	15		"	178	1255	[signature]
	5,0,11			J 17	25		"	74	1304	[signature]

RESULTS: 35P(1) 450(1) 754(1)

CHLORIDE TEST	12	LANDFARM EMPLOYEE:	[signature] 20	NOTES: Exempt
PAINT FILTER TEST	12			ENTERED OCT 12 2009

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

NAME [signature] COMPANY ElmRidge SIGNATURE [signature]

COMPANY CONTACT Mark PHONE 327-2711 DATE 10-8-09

ACCENT Printing • Form 28-1312

Detailed Results

Printable Version Help

Enter tracking number Track

Detailed Results | Notifications

Tracking no.: 869381476171 E-mail notifications

Delivered

Initiated Picked up In transit Delivered

Delivered
Signed for by: L.SINKEY

Shipment Dates	Destination
Ship date Sep 16, 2009	Signature Proof of Delivery
Delivery date Sep 17, 2009 10:49 AM	

Shipment Facts

Help

Service type	Standard Envelope	Delivered to	Receptionist/Front Desk
Weight	0.5 lbs/0.2 kg	Reference	03056-0189 0241

Shipment Travel History

Help

Select time zone: Select Select time format: 12H | 24H

All shipment travel activity is displayed in local time for the location

Date/Time	Activity	Location	Details
Sep 17, 2009 10:49 AM	**Delivered**		
Sep 17, 2009 8:57 AM	On FedEx vehicle for delivery	FARMINGTON, NM	
Sep 17, 2009 8:09 AM	At local FedEx facility	FARMINGTON, NM	
Sep 16, 2009 9:36 PM	At local FedEx facility	ALBUQUERQUE, NM	
Sep 16, 2009 6:47 PM	At dest sort facility	ALBUQUERQUE, NM	
Sep 16, 2009 5:23 PM	Left FedEx origin facility	FARMINGTON, NM	
Sep 16, 2009 1:26 PM	Picked up	FARMINGTON, NM	

Buena Suerte 3G com |
03056 - 0189

FedEx Express
Customer Support Trace
3875 Airways Boulevard
Module H, 4th Floor
Memphis, TN 38116

U.S. Mail: PO Box 727
Memphis, TN 38194-4643

Telephone: 901-369-3600

September 28,2009

Dear Customer:

The following is the proof-of-delivery for tracking number **869381476171**.

Delivery Information:

Status:	Delivered	**Delivery location:**	1235 LA PLATA HWY STE A 87401
Signed for by:	L.SINKEY	**Delivery date:**	Sep 17, 2009 10:49
Service type:	Standard Envelope		

Shipping Information:

Tracking number:	869381476171	**Ship date:**	Sep 16, 2009
		Weight:	0.5 lbs.

Recipient:
MARK KELLY
BUREAU OF LAND MANAGEMENT
1235 LA PLATA HWY STE A
87401 US

Shipper:
JAMES MCD
ENVIROTECH
5796 HIGHWAY 64
87401 US

Reference 03056-0189 0241

Thank you for choosing FedEx Express.

FedEx Worldwide Customer Service
1.800.GoFedEx 1.800.463.3339

envirotech

September 16, 2009 Project No. 03056-0189

Mr. Mark Kelly
Bureau of Land Management
1235 La Plata Highway, Suite A
Farmington, New Mexico 87401 Phone: (505) 599-8900

RE: BUENA SUERTE 3 G COM 1 EARTH PIT CLOSURE NOTIFICATION

Dear Mr. Kelly,

Please accept this letter and attached Sundry Notice as the necessary surface owner notification for earth pit closure activities at the Buena Suerte 3 G COM 1 well site, owned and operated by Elm Ridge Exploration. The Buena Suerte 3 G COM 1 well site is located in Unit G, Section 3, Township 25N, Range 11W, San Juan County, New Mexico. Closure activities are scheduled to begin on September 21, 2009 and continue through September 25, 2009.

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

Respectfully Submitted,
ENVIROTECH, INC.

James McDaniel
Project Scientist
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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE – Other instructions on page 2.

5. Lease Serial No.

6. If Indian, Allottee or Tribe Name

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☑ Gas Well ☐ Other

8. Well Name and No.
Buena Suerte 3 G COM 1

2. Name of Operator
Elm Ridge Exploration

9. API Well No.
30-045-28646

3a. Address
PO Box 156
Bloomfield, NM 87413

3b. Phone No. *(include area code)*
(505) 632-3476

10. Field and Pool or Exploratory Area

4. Location of Well *(Footage, Sec., T.,R.,M., or Survey Description)*
2400 FNL 1820 FEL, G-3-25N-11W, Lat. 36.430666 long. -107.98871

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 SUBMISSION	TYPE OF ACTION			
☑ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☑ Other Closure of an Earth Pit
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. 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.)

Elm Ridge Exploration plans to begin closure activities for an earthen pit located at the above mentioned site. All formal notifications have been made. Closure activities are scheduled to being on Monday, September 21, 2009 and last through September 25, 2009.

14. I hereby certify that the foregoing is true and correct. Name *(Printed/Typed)*
Ms. Amy Mackey

Title Administrative Manager

Signature

Date 09/16/2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 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, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

GENERAL INSTRUCTIONS

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

SPECIFIC INSTRUCTIONS

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

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

NOTICES

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

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

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

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

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

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

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

Response to this request is mandatory.

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

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

Email to Mark Kelly

FROM: MARK_KELLY@BLM.GOV
SENT: MONDAY, SEPTEMBER 28, 2009 4:00 PM
TO: JAMES MCDANIEL
SUBJECT: RE: BUENA SUERTE 32 G COM 1 ACTIVITIES

James,

Thanks for the update.

Mark Kelly
Environmental Compliance Team Lead
BLM Farmington Field Office
mark_kelly@nm.blm.gov
(505) 599-6380
(505) 793-1830 cell

"James Mcdaniel" <jmcdaniel@envirotech-inc.com>

09/28/2009 07:54 AM

To <mark_kelly@nm.blm.gov>, "Jones, Brad A., EMNRD" <brad.a.jones@state.nm.us>

cc

Subject Buena Suerte 32 G COM 1 Activities

Please accept this email as an extension notification for closure activities to take place at the Buena Suerte 32 G COM 1 well site owned and operated by Elm Ridge Exploration. API # 3004528693. Unit G, Section 32, Township 26N, Range 11W, San Juan County, New Mexico. Due to inclement weather, activities were unable to proceed as scheduled, and will continue on Tuesday, September 29th, 2009. Thank you very much for your time in regards to this matter.

James P McDaniel
Project Scientist
envirotech, Inc
505-793-5392

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

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

Form C-144
July 21, 2008

For temporary pits, closed-loop systems, and below-grade tanks, submit to the appropriate NMOCD District Office.
For permanent pits and exceptions submit to the Santa Fe Environmental Bureau office and provide a copy to the appropriate NMOCD District Office.

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

Type of action:
- ☐ Permit of a pit, closed-loop system, below-grade tank, or proposed alternative method
- ☒ Closure of a pit, closed-loop system, below-grade tank, or proposed alternative method
- ☐ Modification to an existing permit
- ☐ Closure plan only submitted for an existing permitted or non-permitted pit, closed-loop system, below-grade tank, or proposed alternative method

Instructions: Please submit one application (Form C-144) per individual pit, closed-loop system, below-grade tank, or alternative request

Please be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations, or ordinances.

Operator: Elm Ridge Exploration OGRID #: 149052

Address: P.O. Box 156; Bloomfield, NM 87413

Facility or well name: Buena Suerte 3G COM 1

API Number: 3004528646 OCD Permit Number:

U/L or Qtr/Qtr G Section 3 Township 25N Range 11W County: San Juan

Center of Proposed Design: Latitude 36.430826 Longitude -107.988518 NAD: ☐1927 ☒ 1983

Surface Owner: ☒ Federal ☐ State ☐ Private ☐ Tribal Trust or Indian Allotment

RECEIVED OCD
2010 JAN 28 A 11:24

2.
☒ **Pit:** Subsection F or G of 19.15.17.11 NMAC **Ceased operation prior to June 16th, 2008**

Temporary: ☐ Drilling ☐ Workover

☒ Permanent ☐ Emergency ☐ Cavitation ☐ P&A

☒ Lined ☐ Unlined Liner type: Thickness NA mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other

☐ String-Reinforced

Liner Seams: ☐ Welded ☐ Factory ☐ Other Volume: bbl Dimensions: L 10' x W 10' x D 2'

3.
☐ **Closed-loop System:** Subsection H of 19.15.17.11 NMAC

Type of Operation: ☐ P&A ☐ Drilling a new well ☐ Workover or Drilling (Applies to activities which require prior approval of a permit or notice of intent)

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

☐ Lined ☐ Unlined Liner type: Thickness mil ☐ LLDPE ☐ HDPE ☐ PVC ☐ Other

Liner Seams: ☐ Welded ☐ Factory ☐ Other

4.
☐ **Below-grade tank:** Subsection I of 19.15.17.11 NMAC

Volume: bbl Type of fluid: Manufacturer:

Tank Construction material:

☐ Secondary containment with leak detection ☐ Visible sidewalls, liner, 6-inch lift and automatic overflow shut-off

☐ Visible sidewalls and liner ☐ Visible sidewalls only ☐ Other

Liner type: Thickness mil ☐ HDPE ☐ PVC ☐ Other

5.
☐ **Alternative Method:**

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

6.

Fencing: Subsection D of 19.15.17.11 NMAC *(Applies to permanent pits, temporary pits, and below-grade tanks)*

☐ Chain link, six feet in height, two strands of barbed wire at top *(Required if located within 1000 feet of a permanent residence, school, hospital, institution or church)*

☐ Four foot height, four strands of barbed wire evenly spaced between one and four feet

☒ Alternate. Please specify 4' tall 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: chicken wire screen

☐ Monthly inspections (If netting or screening is not physically feasible)

8.

Signs: Subsection C of 19.15.17.11 NMAC

☐ 12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers

☒ Signed in compliance with 19.15.3.103 NMAC

9.

Administrative Approvals and Exceptions:

Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17 NMAC for guidance.

Please check a box if one or more of the following is requested, if not leave blank:

☐ Administrative approval(s): Requests must be submitted to the appropriate division district or the Santa Fe Environmental Bureau office for consideration of approval.

☐ Exception(s): Requests must be submitted to the Santa Fe Environmental Bureau office for consideration of approval.

10.

Siting Criteria (regarding permitting): 19.15.17.10 NMAC

Instructions: The applicant must demonstrate compliance for each siting criteria below in the application. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Applicant must attach justification for request. Please refer to 19.15.17.10 NMAC for guidance. **Siting criteria does not apply to drying pads or above-grade tanks associated with a closed-loop system.**

Ground water is less than 50 feet below the bottom of the temporary pit, permanent pit, or below-grade tank. - NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	☐ Yes ☐ No
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark). - 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	☐ Yes ☐ No ☐ NA
Within 500 horizontal feet of a private, domestic fresh water well or spring that less than five households use for domestic or stock watering purposes, or within 1000 horizontal feet of any other fresh water well or spring, in existence at the time of initial application. - 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.	☐ Yes ☐ No
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 ☐ Yes ☐ No
Within a 100-year floodplain. - FEMA map	☐ Yes ☐ No

11.
Temporary Pits, Emergency Pits, and Below-grade Tanks Permit Application Attachment Check Subsection B of 19.15.17.9 NMAC

Instructions: Each of the following items must be attached to the application. Please indicate, by a check mark in the box, that the documents are attached.

- ☐ Hydrogeologic Report (Below-grade Tanks) - based upon the requirements of Paragraph (4) of Subsection B of 19.15.17.9 NMAC
- ☐ Hydrogeologic Data (Temporary and Emergency Pits) - based upon the requirements of Paragraph (2) of Subsection B of 19.15.17.9 NMAC
- ☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC
- ☐ Design Plan - based upon the appropriate requirements of 19.15.17.11 NMAC
- ☐ Operating and Maintenance Plan - based upon the appropriate requirements of 19.15.17.12 NMAC
- ☐ Closure Plan (Please complete Boxes 14 through 18, if applicable) - based upon the appropriate requirements of Subsection C of 19.15.17.9 NMAC 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)*

13.
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_2S, 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

14.
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)

15.
Waste Excavation and Removal Closure Plan Checklist: (19.15.17.13 NMAC) ***Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***

- ☒ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC
- ☒ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC
- ☒ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings)
- ☒ Soil Backfill and Cover Design Specifications - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC
- ☒ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC
- ☒ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

16.

Waste Removal Closure For Closed-loop Sys s That Utilize Above Ground Steel Tanks or Ha if Bins Only: (19.15.17.13.D NMAC)

Instructions: Please indentify the facility or facilities for the disposal of liquids, drilling fluids and drill cuttings. Use attachment if more than two facilities are required.

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Disposal Facility Name: _____ Disposal Facility Permit Number: _____

Will any of the proposed closed-loop system operations and associated activities occur on or in areas that *will not* be used for future service and operations?

☐ Yes (If yes, please provide the information below) ☐ No

Required for impacted areas which will not be used for future service and operations:

☐ Soil Backfill and Cover Design Specifications - - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC

☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

17.

Siting Criteria (regarding on-site closure methods only): 19.15.17.10 NMAC

Instructions: Each siting criteria requires a demonstration of compliance in the closure plan. Recommendations of acceptable source material are provided below. Requests regarding changes to certain siting criteria may require administrative approval from the appropriate district office or may be considered an exception which must be submitted to the Santa Fe Environmental Bureau office for consideration of approval. Justifications and/or demonstrations of equivalency are required. Please refer to 19.15.17.10 NMAC for guidance.

Ground water is less than 50 feet below the bottom of the buried waste. - NM Office of the State Engineer - iWATERS database search; USGS; 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

18.

On-Site Closure Plan Checklist: (19.15.17.13 NMAC) ***Instructions: Each of the following items must be attached to the closure plan. Please indicate, by a check mark in the box, that the documents are attached.***

☐ Siting Criteria Compliance Demonstrations - based upon the appropriate requirements of 19.15.17.10 NMAC

☐ Proof of Surface Owner Notice - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

☐ Construction/Design Plan of Burial Trench (if applicable) based upon the appropriate requirements of 19.15.17.11 NMAC

☐ Construction/Design Plan of Temporary Pit (for in-place burial of a drying pad) - based upon the appropriate requirements of 19.15.17.11 NMAC

☐ Protocols and Procedures - based upon the appropriate requirements of 19.15.17.13 NMAC

☐ Confirmation Sampling Plan (if applicable) - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

☐ Waste Material Sampling Plan - based upon the appropriate requirements of Subsection F of 19.15.17.13 NMAC

☐ Disposal Facility Name and Permit Number (for liquids, drilling fluids and drill cuttings or in case on-site closure standards cannot be achieved)

☐ Soil Cover Design - based upon the appropriate requirements of Subsection H of 19.15.17.13 NMAC

☐ Re-vegetation Plan - based upon the appropriate requirements of Subsection I of 19.15.17.13 NMAC

☐ Site Reclamation Plan - based upon the appropriate requirements of Subsection G of 19.15.17.13 NMAC

19.
Operator Application Certification:

I hereby certify that the information submitted with this application is true, accurate and complete to the best of my knowledge and belief.

Name (Print): Ms. Amy Mackey Title: Administrative Manager

Signature: Date: 3-2-09

E-mail address: amackey1@elmridge.net Telephone: (505) 632-3476 Ext. 201

20.
OCD Approval: ☐ Permit Application (including closure plan) ☒ Closure Plan (only) ☐ OCD Conditions (see attachment)

OCD Representative Signature: **Approval Date:** 2/10/10

Title: Environmental Engineer **OCD Permit Number:**

21.
Closure Report (required within 60 days of closure completion): Subsection K of 19.15.17.13 NMAC

Instructions: Operators are required to obtain an approved closure plan prior to implementing any closure activities and submitting the closure report. The closure report is required to be submitted to the division within 60 days of the completion of the closure activities. Please do not complete this section of the form until an approved closure plan has been obtained and the closure activities have been completed.

☐ **Closure Completion Date:**

22.
Closure Method:

☐ Waste Excavation and Removal ☐ On-Site Closure Method ☐ Alternative Closure Method ☐ Waste Removal (Closed-loop systems only)

☐ If different from approved plan, please explain.

23.
Closure Report Regarding Waste Removal Closure For Closed-loop Systems That Utilize Above Ground Steel Tanks or Haul-off Bins Only:

Instructions: Please indentify the facility or facilities for where the liquids, drilling fluids and drill cuttings were disposed. Use attachment if more than two facilities were utilized.

Disposal Facility Name: Disposal Facility Permit Number:

Disposal Facility Name: Disposal Facility Permit Number:

Were the closed-loop system operations and associated activities performed on or in areas that *will not* be used for future service and operations?

☐ Yes (If yes, please demonstrate compliance to the items below) ☐ No

Required for impacted areas which will not be used for future service and operations:

☐ Site Reclamation (Photo Documentation)
☐ Soil Backfilling and Cover Installation
☐ Re-vegetation Application Rates and Seeding Technique

24.
Closure Report Attachment Checklist: ***Instructions: Each of the following items must be attached to the closure report. Please indicate, by a check mark in the box, that the documents are attached.***

☐ Proof of Closure Notice (surface owner and division)
☐ Proof of Deed Notice (required for on-site closure)
☐ Plot Plan (for on-site closures and temporary pits)
☐ Confirmation Sampling Analytical Results (if applicable)
☐ Waste Material Sampling Analytical Results (required for on-site closure)
☐ Disposal Facility Name and Permit Number
☐ Soil Backfilling and Cover Installation
☐ Re-vegetation Application Rates and Seeding Technique
☐ Site Reclamation (Photo Documentation)

On-site Closure Location: Latitude Longitude NAD: ☐ 1927 ☐ 1983

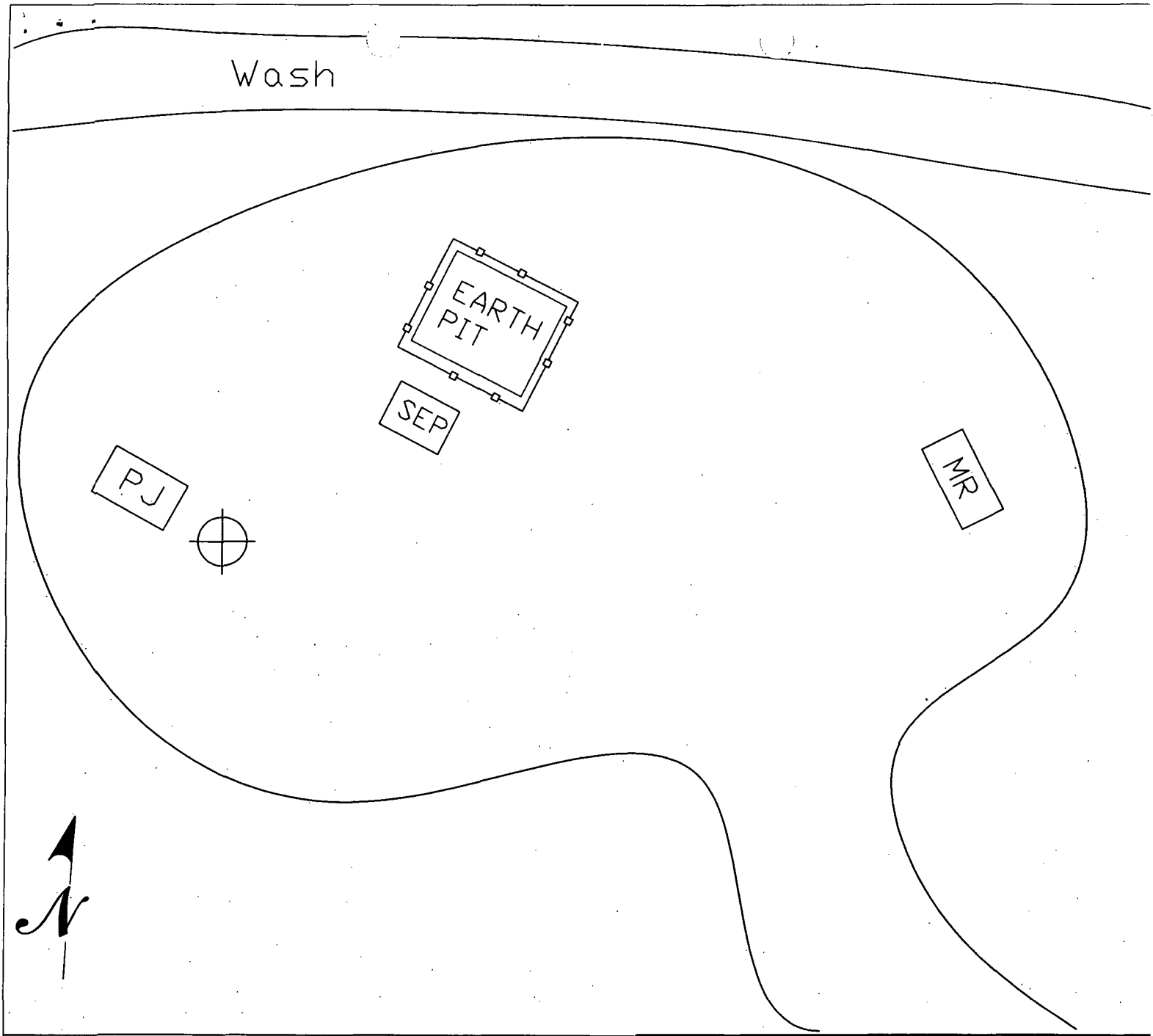
25.
Operator Closure Certification:

I hereby certify that the information and attachments submitted with this closure report is true, accurate and complete to the best of my knowledge and belief. I also certify that the closure complies with all applicable closure requirements and conditions specified in the approved closure plan.

Name (Print): Title:

Signature: Date:

E-mail address: Telephone:



LEGEND

- 4′ Tall Hogwire Fencing
- Berm
- Well Head

SITE MAP
ELM RIDGE EXPLORATION
BUENA SUERTE 3G COM 1
SEC 3 TWN 25N RGE 11W
SAN JUAN COUNTY, NEW MEXICO

SCALE: NTS	FIGURE NO. A	REV
PROJECT NO03056-0136		

REVISIONS

NO.	DATE	BY	DESCRIPTION

MAP DRWN	MDD	11/18/08	BASE DRWN		

ENVIRONMENTAL SCIENTISTS & ENGINEERS
ENVIROTECH
5796 U.S. HIGHWAY 64, FARMINGTON, NM 87410 505-632-0615

EARTHEN PIT CLOSURE PLAN

SITE NAME:

BUENA SUERTE 3G COM 1
UNIT LETTER G, SECTION 3, TOWNSHIP 25N, RANGE 11W
SAN JUAN COUNTY, NEW MEXICO
LATITUDE 36.430826 LONGITUDE -107.988518

SUBMITTED TO:

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

SUBMITTED BY:

MS. AMY MACKEY
ELM RIDGE EXPLORATION
P.O. BOX 156
BLOOMFIELD, NEW MEXICO 87413
(505) 632-3476 EXT. 201

FEBRUARY 2009

EARTHEN PIT CLOSURE PLAN
ELM RIDGE EXPLORATION
BUENA SUERTE 3G COM 1
SAN JUAN COUNTY, NEW MEXICO

TABLE OF CONTENTS

INTRODUCTION

Elm Ridge Exploration would like to submit a closure plan for the earthen pit at the Buena Suerte 3G COM 1 well site located in the SW ¼ NE ¼ of Section 3, Township 25N, Range 11W, 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 Buena Suerte 3G COM 1 well site. The following scope of closure activities has been designed to meet this objective:

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

2) In accordance with of Subsection A of 19.15.17.13 NMAC, Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will close any earthen pits at a date the division requires because of imminent danger to fresh water, public health, or the environment.

3) Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will close earthen pits first which seem to pose a greater risk to fresh water, public health, or the environment. This will be determined by the locations 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 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 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 show other evidence of a release. All samples being collected will be analyzed for benzene, and total BTEX via USEPA Method 8021B, TPH via USEPA Method 418.1, and chlorides via USEPA 300.1, as in accordance with 19.15.17.13 Subsection C Paragraph (3) NMAC.

9) Depending on soil sample results the area will be either backfilled or the area will be excavated.
    a. If soil samples do not exceed the regulatory standards of 0.2 mg/kg benzene, 50 mg/kg BTEX, 100 mg/kg TPH, and 250 mg/kg or background concentration of chlorides, as in accordance with 19.15.17.13 Subsection C Paragraph (3) NMAC.
        i. Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, shall submit a Form C-141 with the laboratory results so that the division may review the results to determine if additional delineation is required in accordance with Paragraph (4) of Subsection C of 19.15.17.13 NMAC.
        ii. Elm Ridge Exploration, or a contractor acting on behalf of Elm Ridge Exploration, will backfill the excavation or impacted area with non-waste containing, earthen material, in accordance with 19.15.17.13 Subsection E Paragraph (6) NMAC. A soil cover shall be installed for all backfilled excavations consisting of the background thickness of topsoil or one foot of suitable material to establish vegetation at the site, whichever is greater in accordance with Subsections H of 19.15.17.13 NMAC. The operator shall construct the soil cover to the site's existing grade and prevent ponding of water and erosion of the cover material.
        iii. All areas of the well site that are no longer utilized on a day to day basis for the production of oil and/or gas, Elm Ridge Exploration, or a

contractor acting on behalf of Elm Ridge Exploration, will substantially restore, 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.