

HIP - 92

**GENERAL  
CORRESPONDENCE**

**YEAR(S):**

2004

Frontier Field Services, LLC  
4200 E. Skelly Dr.  
Suite 700  
Tulsa, OK 74135

VENDOR

CHECK DATE

016995

7/30/04

INVOICE  
NUMBER

INVOICE  
DATE

DISCOUNT  
TAKEN

AMOUNT  
PAID

Hydrostatic testwater discharge Permit

\$250.00

HI-091  
PNM HYDROSTATIC TEST.

THE FACE OF THIS DOCUMENT HAS A VOID FEATURE, MICRO PRINTING AND AN ARTIFICIAL WATERMARK ON THE BACK.

**Frontier Field Services, LLC**

4200 E. Skelly Dr.  
Suite 700  
Tulsa, OK 74135



Comerica Bank - Texas

32-75  
1110

016995

CHECK NO.

16995

Two Hundred Fifty Dollars and 00/00

Pay

DATE

7/30/04

AMOUNT

\$250.00

New Mexico Oil Conservation Division  
TO THE 1220 South St. Francis Drive  
ORDER OF Santa Fe, NM 87505

*Kelly Wood*

MP

MP

AUTHORIZED SIGNATURE

⑈016995⑈ ⑆111000753⑆ 1880899537⑈

ACKNOWLEDGEMENT OF RECEIPT  
OF CHECK/CASH

I hereby acknowledge receipt of check No. <sup>16995</sup> 6428 dated <sup>7/30/04</sup> 9/22/04,

or cash received on 10/4/04 in the amount of \$ <sup>250</sup> 250

from FRONTIER FIELD SERVICES  
MGMT TRPPLO

for HYDROSTATIC DISCH. PERMIT HI-091  
" " " HE-090

Submitted by: <sup>(Facility Name)</sup> Ed Martin Date: <sup>(DP No.)</sup> 10/4/04

Submitted to ASD by: Ed Martin Date: 10/4/04

Received in ASD by: \_\_\_\_\_ Date: \_\_\_\_\_

Filing Fee ☒ New Facility \_\_\_\_\_ Renewal \_\_\_\_\_  
Modification \_\_\_\_\_ Other \_\_\_\_\_ Permit ☒

(Appendix)

Organization Code 521.07 Applicable FY 2001

To be deposited in the Water Quality Management Fund.

Full Payment ☒ or Annual Increment \_\_\_\_\_



**Cinnabar Environmental Services**  
Environmental Engineering & Consulting

July 27, 2004  
PROJ2003/368-03

AUG 4  
2004 JUL 35 PM 12 49

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

Re: Discharge Permit Application for  
Natural Gas Pipeline Hydrostatic Test Water  
Frontier Field Services, LLC  
ABO Pipeline Project  
Eddy and Lea County, New Mexico

HI-92

Dear Mr. Anderson:

On behalf of Frontier Field Services, LLC, Cinnabar Environmental Services (CES) submits this application for a hydrostatic test water discharge permit as required by New Mexico Oil Conservation Division (OCD).

This letter-report permit application was developed using New Mexico OCD guidelines for hydrostatic test dewatering. Attached to this application is a check for \$250.00 for the application processing and permit fee. If you have any questions or require additional information, please feel free to call us at (405) 844-2900.

Sincerely,

Cinnabar Environmental Services

*A. J. Andary*

A.J. Andary, P.E., REM, CHMM  
Engineering Manager

405 206 6748 (CELL)

Enclosures:

Cc: Mr. Jim Lind, Frontier Field Services, LLC

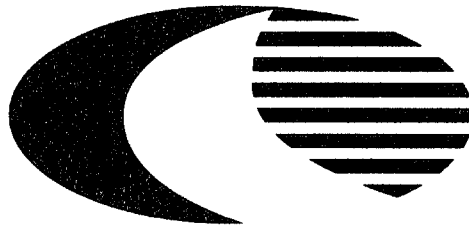
**Hydrostatic Testwater Discharge**  
**Permit Application**  
**Frontier Energy Field Services**  
**ABO Pipeline Project**  
**Lea and Eddy County, New Mexico**

*Prepared for:*  
***New Mexico Oil Conservation Division***

***1220 South St. Francis Drive***  
***Santa Fe, New Mexico 87505***

*Prepared by:*

***Cinnabar Environmental Services***  
***Environmental Engineering and Consulting***



***1603 East 19<sup>th</sup> Street, Suite 104***  
***Edmond, OK 73013***  
***(405) 844-2900***  
***www.cinnabar.cc***

**Frontier Field Services, LLC  
Hydrostatic Test Water Discharge Permit Application  
ABO Natural Gas Pipeline Project  
Eddy and Lea County, New Mexico**

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- B. Discharge Permit Application Report

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- Appendix A - Pipeline Project Map
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- Appendix C - Land Owners Authorization

**Frontier Field Services, LLC**  
**Hydrostatic Test Water Discharge Permit Application**  
**ABO Pipeline Project**  
**Eddy and Lea County, New Mexico**

**A. Introduction**

Frontier Field Services, LLC is proposing to construct a 29-mile route of pipeline to gather and transport natural gas from proposed production wells along the corridor as well as existing production wells in a remote production area known as the Empire Oil Field. The proposed pipeline will begin immediately east of the town of Artesia, Lea County then terminate at an existing gas processing plant near the town of Maljamar, Eddy County. The referenced pipeline will be constructed across federal (BLM) and state lands.

Following the completion of this project, the steel pipeline will be hydraulically tested with fresh water to verify its integrity prior to use. Frontier Field Services, LLC is requesting from New Mexico Oil Conservation Division (OCD) a permit to discharge of the hydrostatic test water. This application letter report satisfies the guidelines for hydrostatic test dewatering as required by the OCD.

**B. Discharge Permit Report**

The proposed natural gas pipeline will be a 12-inch steel pipe. The estimated volume of water needed to fill and the test the pipe will be approximately ~~895,188 gallons~~ 100,000 gallons. Since the estimated test water volume is greater than 100,000 gallons, approval of a test water discharge permit is required by the OCD. Following is a discussion of elements required for this permit:

1. Maps Showing the Location of the Pipe

Enclosed in Appendix A are maps showing the location of the pipeline project and proposed test water discharge points.

2. Description of the Test

Following the completion of the pipe construction project, the pipe will be hydraulically tested for integrity and any leaks. The hydrostatic test will be accomplished by filling the pipe with fresh water and then pressuring the pipe to approximately 1000 pounds per square inch gauge (psig). Pressure will be maintained on the pipe for a period of 8 hours while the pipe is inspected for leaks as well as construction integrity. Any loss of pressure or visible water leaks will warrant investigation and repair. Upon a successful test, the water used to perform the hydrostatic test will be discharged into the environment according to NM OCD guidance.

3. Source and Analysis of Test Water

~~Water used to complete the hydrostatic test of the new pipe will be potable water from area water wells or tap water sources.~~

According to New Mexico OCD guidance, hydrostatic test water must be potable, and with less than 1000 mg/l of total dissolved solids (TDS). ~~Test water will be provided by Claprook Water Company in Eddy County, New Mexico.~~ A water quality certification report is enclosed in Appendix B.

4. Point of Discharge of the Test Water

The projected 29-mile pipeline will be constructed with twelve (12) pipe taps for tapping into the natural gas pipeline along this route. These pipe taps will be used to introduce the test water into the new pipe, and to discharge of the test water following the hydrostatic test.

As shown on pipeline project maps (Appendix A), there will be two points of inlet test water and discharge. Point No. 1, as shown on Sheet 2 of 5, located in Sec 33, T-17S, R-29E, will be used as inlet and discharge of a approximately 7,950 bbls ~~(334,000 gallons)~~ of test water. This discharge point will be in a State-owned land. ~~Enclosed in Appendix C is an electronic correspondence document from New Mexico State Office regarding authorization from the State and lessee.~~

The remaining test water, approximately 561,288 gallons will be introduced to the pipeline and discharged at point 2 in BLM-owned land, Sec 29, T-17S, R-31E, in Lea County, New Mexico. Please refer to Sheets 4 of 5, and 5 of 5 of the enclosed maps. According to phone communication with the BLM Office, (Hans Salan – 505-234-5947), ~~authorization to discharge is not required by BLM provided the discharge is under an approved OCD Discharge Permit.~~

5. Method and Location for Collection and retention of Fluids and Solids

Water, at the referenced discharge points, will be discharged to the environment in a controlled manner. ~~The referenced pipe taps/discharge points will be equipped with valves to control the water discharge rate. Hay bail will be used to dissipate the water flow energy, filter any sediment and minimize any soil erosion.~~

6. Depth of Groundwater at Discharge and Collection/Retention Sites

Groundwater along the pipeline corridor is considered deep. ~~Depth to groundwater is greater than 50 feet below ground surface (bgs).~~

7. Proposed Method of Disposal of Fluids and Solids

The hydrostatic test water, being potable and used for a new pipe test, will be discharged directly to the environment at the referenced discharge points. Water



will be visually inspected for sediments or debris. Hay bail or other mechanical measures will be utilized to improve the filtration and retention of sediments. ~~At the completion of the water discharge operation the dry soil/sediments will be graded to ground level.~~

8. Identification of Land Owners at and Adjacent to Discharge and Retention Sites

Frontier Field Services, LLC has identified the following land owners at the proposed water discharge points:

- Federal/BLM
- State

Enclosed in Appendix C is an authorization document from the New Mexico State Office.

*EFFECTIVE 12/1/04 — 3/31/04*

## APPENDIX A

### Maps













## **APPENDIX B**

### **Test Water Quality Certification**



# MICROBIOLOGICAL WATER REPORT



**CITY OF CARLSBAD**  
 WATER & WASTEWATER LABORATORY  
 P.O. Box 1569  
 Carlsbad, NM 88220  
 887-5412

Lab No.

281

Bottle No.

CW

Date Received

Mo. Day Year

050404

Time Received

1045

☐ AM  
☐ PM

## SAMPLE IDENTIFICATION

Water Supply System Name

CAPRock Water Co.

County

Edg

WSS Code No.

210-08

## COLLECTION INFORMATION

Date Collected

Mo. Day Year

050404

Time Collected

☒ AM

Collected By

10:00

☐ PM

Sherrill Guly

Collection Location

Site #1

## TYPE OF SYSTEM

Check One:

☒ Community

☐ Non-Community

☐ Private Well

Ice ☒ Yes ☐ No

☒ Disinfected? ☒ Yes ☐ No Residual: \_\_\_\_\_ mg/L

## REASON FOR SAMPLING

Check One:

☒ Routine Sample

☐ Special Sample

☐ Construction Sample

☐ Repeat Sample

☐ Monitoring Sample

☐ Other

Send Report to the following:

Name: CAPRock Water Co. Sherrill Guly

Attn: 4015 Bottom Rd.

Address: ARTESIA, N.M. 88210

Phone #: 1-505-677-2221 746-2054

## LABORATORY TEST RESULTS

Drinking Water:

Type of Test

Total Coliforms per 100 ml:

Present ☐ Absent ☒

MM0-MUG ☒

E-coli per 100 ml:

Present ☐ Absent ☒

## POSITIVE RESULTS CALLED IN

By: \_\_\_\_\_ Date: \_\_\_\_\_

Time: \_\_\_\_\_ Person Notified: \_\_\_\_\_

For Interpretation Of Results Call The  
 New Mexico Environment Dept. At 762-3728

## REJECTED SAMPLE

If one of the following is checked, please resample.

- ☐ Sample is too old. Not received within \_\_\_\_\_ hours of collection.
- ☐ Temperature violation (above 10° C).
- ☐ Form incomplete. See circled item.
- ☐ Date discrepancy.
- ☐ Leaking sample.
- ☐ Quantity insufficient for testing.
- ☐ Quantity too great to permit agitation.
- ☐ Other \_\_\_\_\_

Analyst: *Mark Howard*

Date Began: 5-4-04

Analyst: *Sherrill Guly*

Date Reported: 5-05-04

**APPENDIX C**  
**Land Owners Authorizations**

## A. J. Andary

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**From:** Morrow, Cody [CMorrow@slo.state.nm.us]  
**Sent:** Friday, July 09, 2004 12:12 PM  
**To:** 'ajandary@cinnabar.cc'  
**Cc:** Anderson, Leon  
**Subject:** Surface Discharge of Hydrostatic H2O



Morrow, Cody.vcf  
(442 B)

A.J.,

After our telephone conversation I contacted Bogle Farms, the surface lessee of section 33, T-17S, R-33E. Lewis of Bogle Farms indicated that it would not be a conflict if Cinnabar discharges approximately 334,000 gallons of water on the surface. The State Land Office only stipulations are that the water be released in manner that controls erosion and that any debris brought in be removed. I hope this answers your questions, however you can contact me at cmorrow@slo.state.nm.us or (505)827-5729. Thanks and have a nice day.

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This email and any files transmitted with it are confidential and intended solely for the use of the individual or entity to whom they are addressed. If you have received this email in error please notify the sender and delete all copies of this message and any files transmitted with it from your system.

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Cody C. Morrow  
Manager Surface Division  
New Mexico State Land Office

<<Morrow, Cody.vcf>>