

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

Form C-144  
June 1, 2004

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

For drilling and production facilities, submit to  
appropriate NMOCD District Office.  
For downstream facilities, submit to Santa Fe  
office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ☐ No ☐

Type of action: Registration of a pit or below-grade tank ☐ Closure of a pit or below-grade tank ☐

Operator: Cimarex Energy Telephone: \_\_\_\_\_ e-mail address: dorsey.rogers@aol.com

Address: \_\_\_\_\_

Facility or well name: Pipeline Deep 18 API #: 30-025-3796 U/L or Qtr/Qtr I Sec 18 T 19 R 34

County: Coa Latitude 32° 39' 24.7 Longitude 103° 35' 35.1 NAD: 1927 ☐ 1983 ☐

Surface Owner: Federal ☐ State ☐ Private ☐ Indian ☐

Pit

Type: Drilling ☒ Production ☐ Disposal ☐

Workover ☐ Emergency ☐

Lined ☐ Unlined ☐

Liner type: Synthetic ☒ Thickness 12 mil Clay ☐

Pit Volume \_\_\_\_\_ bbl

Below-grade tank

Volume: \_\_\_\_\_ bbl Type of fluid: \_\_\_\_\_

Construction material: \_\_\_\_\_

Double-walled, with leak detection? Yes ☐ If not, explain why not. \_\_\_\_\_

Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)

Less than 50 feet

(20 points)

50 feet or more, but less than 100 feet

(10 points)

100 feet or more

(0 points)

Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)

Yes

(20 points)

No

(0 points)

Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)

Less than 200 feet

(20 points)

200 feet or more, but less than 1000 feet

(10 points)

1000 feet or more

(0 points)

Ranking Score (Total Points)

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if you are burying in place) onsite ☐ offsite ☐ If offsite, name of facility \_\_\_\_\_. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface \_\_\_\_\_ ft. and attach sample results.

(5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments:

The Tank will be lined with 20 mil plastic and the top will be 20 mil plastic sewn on.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OGD-approved \_\_\_\_\_

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

Printed Name/Title

Dorsey Rogers Daily

Signature

[Signature]

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:

Printed Name/Title

L. Johnson Enviro Engr

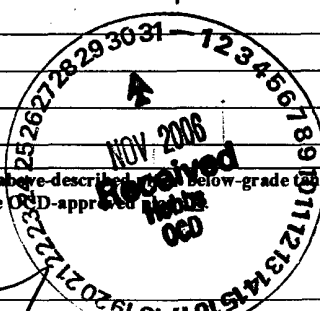
Signature

[Signature]

Date:

11-30-06

FINAL CLOSURE APPROVED 1-11-07  
[Signature]



Report Date: January 10, 2007

Work Order: 7011019

Page Number: 1 of 2  
Pipe Line Deep 18 Fed #3

## Summary Report

Cris Busby  
New Mexico Environmental  
P.O. Box 310  
Carlsbad, NM, 88221

Report Date: January 10, 2007

Work Order: 7011019



Project Location: Pipe Line Deep 18 Fed #3

| Sample | Description            | Matrix | Date Taken | Time Taken | Date Received |
|--------|------------------------|--------|------------|------------|---------------|
| 113477 | #001 E. Leg 8'         | soil   | 2007-01-09 | 13:00      | 2007-01-10    |
| 113478 | #002 N. Leg 8'         | soil   | 2007-01-09 | 13:30      | 2007-01-10    |
| 113479 | #003 W. Leg 10'        | soil   | 2007-01-09 | 14:00      | 2007-01-10    |
| 113480 | #004 E. Inside Leg 8'  | soil   | 2007-01-09 | 14:30      | 2007-01-10    |
| 113481 | #005 W. Inside Leg 10' | soil   | 2007-01-09 | 15:00      | 2007-01-10    |
| 113482 | #006 Background        | soil   | 2007-01-09 | 15:30      | 2007-01-10    |

**Sample: 113477 - #001 E. Leg 8'**

| Param    | Flag | Result | Units | RL   |
|----------|------|--------|-------|------|
| Chloride |      | 223    | mg/Kg | 2.00 |

**Sample: 113478 - #002 N. Leg 8'**

| Param    | Flag | Result | Units | RL   |
|----------|------|--------|-------|------|
| Chloride |      | 152    | mg/Kg | 2.00 |

**Sample: 113479 - #003 W. Leg 10'**

| Param    | Flag | Result | Units | RL   |
|----------|------|--------|-------|------|
| Chloride |      | 121    | mg/Kg | 2.00 |

**Sample: 113480 - #004 E. Inside Leg 8'**

| Param    | Flag | Result | Units | RL   |
|----------|------|--------|-------|------|
| Chloride |      | 126    | mg/Kg | 2.00 |

**Sample: 113481 - #005 W. Inside Leg 10'**

TraceAnalysis, Inc. • 6701 Aberdeen Ave., Suite 9 • Lubbock, TX 79424-1515 • (806) 794-1296

01/10/2007 WED 04:19 [TX/RX NO 6921] 002

Report Date: January 10, 2007

Work Order: 7011019

Page Number: 2 of 2  
Pipe Line Deep 18 Fed #3

| Param    | Flag | Result | Units | RL   |
|----------|------|--------|-------|------|
| Chloride |      | 152    | mg/Kg | 2.00 |

Sample: 113482 - #006 Background

| Param    | Flag | Result | Units | RL   |
|----------|------|--------|-------|------|
| Chloride |      | 4.30   | mg/Kg | 2.00 |



# TRACEANALYSIS, INC.

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## Analytical and Quality Control Report

Cris Bushy  
New Mexico Environmental  
P.O. Box 310  
Carlsbad, NM, 88221

Report Date: January 10, 2007

Work Order: 7011019



Project Location: Pipe Line Deep 18 Fed #3  
Project Number: Pipe Line Deep 18 Fed #3

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

| Sample | Description            | Matrix | Date Taken | Time Taken | Date Received |
|--------|------------------------|--------|------------|------------|---------------|
| 113477 | #001 E. Leg 8'         | soil   | 2007-01-09 | 13:00      | 2007-01-10    |
| 113478 | #002 N. Leg 8'         | soil   | 2007-01-09 | 13:30      | 2007-01-10    |
| 113479 | #003 W. Leg 10'        | soil   | 2007-01-09 | 14:00      | 2007-01-10    |
| 113480 | #004 E. Inside Leg 8'  | soil   | 2007-01-09 | 14:30      | 2007-01-10    |
| 113481 | #005 W. Inside Leg 10' | soil   | 2007-01-09 | 15:00      | 2007-01-10    |
| 113482 | #006 Background        | soil   | 2007-01-09 | 15:30      | 2007-01-10    |

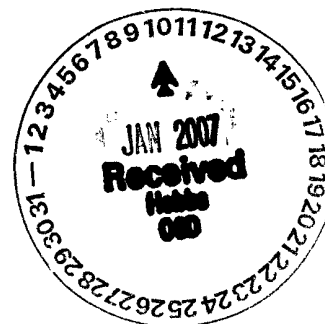
These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 5 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

  
 Dr. Blair Leftwich, Director

### Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.



Report Date: January 10, 2007  
Pipe Line Deep 18 Fed #3

Work Order: 7011019

Page Number: 2 of 5  
Pipe Line Deep 18 Fed #3

## Analytical Report

Sample: 113477 - #001 E. Leg 8'

Analysis: Chloride (Titration)  
QC Batch: 33531  
Prep Batch: 29129Analytical Method: SM 4500-Cl B  
Date Analyzed: 2007-01-10  
Sample Preparation: 2007-01-10Prep Method: N/A  
Analyzed By: SM  
Prepared By: SM

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| Chloride  |      | 223          | mg/Kg | 10       | 2.00 |

Sample: 113478 - #002 N. Leg 8'

Analysis: Chloride (Titration)  
QC Batch: 33531  
Prep Batch: 29129Analytical Method: SM 4500-Cl B  
Date Analyzed: 2007-01-10  
Sample Preparation: 2007-01-10Prep Method: N/A  
Analyzed By: SM  
Prepared By: SM

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| Chloride  |      | 152          | mg/Kg | 5        | 2.00 |

Sample: 113479 - #003 W. Leg 10'

Analysis: Chloride (Titration)  
QC Batch: 33531  
Prep Batch: 29129Analytical Method: SM 4500-Cl B  
Date Analyzed: 2007-01-10  
Sample Preparation: 2007-01-10Prep Method: N/A  
Analyzed By: SM  
Prepared By: SM

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| Chloride  |      | 121          | mg/Kg | 5        | 2.00 |

Sample: 113480 - #004 E. Inside Leg 8'

Analysis: Chloride (Titration)  
QC Batch: 33531  
Prep Batch: 29129Analytical Method: SM 4500-Cl B  
Date Analyzed: 2007-01-10  
Sample Preparation: 2007-01-10Prep Method: N/A  
Analyzed By: SM  
Prepared By: SM

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| Chloride  |      | 126          | mg/Kg | 5        | 2.00 |

Sample: 113481 - #005 W. Inside Leg 10'

Analysis: Chloride (Titration)  
QC Batch: 33531  
Prep Batch: 29129Analytical Method: SM 4500-Cl B  
Date Analyzed: 2007-01-10  
Sample Preparation: 2007-01-10Prep Method: N/A  
Analyzed By: SM  
Prepared By: SM

Report Date: January 10, 2007  
Pipe Line Deep 18 Fed #3

Work Order: 7011019

Page Number: 3 of 5  
Pipe Line Deep 18 Fed #3

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| Chloride  |      | 152          | mg/Kg | 2        | 2.00 |

**Sample: 113482 - #006 Background**

Analysis: Chloride (Titration) Analytical Method: SM 4500-Cl B Prep Method: N/A  
QC Batch: 33531 Date Analyzed: 2007-01-10 Analyzed By: SM  
Prep Batch: 29129 Sample Preparation: 2007-01-10 Prepared By: SM

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| Chloride  |      | 4.30         | mg/Kg | 2        | 2.00 |

**Method Blank (1) QC Batch: 33531**

QC Batch: 33531 Date Analyzed: 2007-01-10 Analyzed By: SM  
Prep Batch: 29129 QC Preparation: 2007-01-10 Prepared By: SM

| Parameter | Flag | MDL<br>Result | Units | RL |
|-----------|------|---------------|-------|----|
| Chloride  |      | <0.500        | mg/Kg | 2  |

**Laboratory Control Spike (LCS-1)**

QC Batch: 33531 Date Analyzed: 2007-01-10 Analyzed By: SM  
Prep Batch: 29129 QC Preparation: 2007-01-10 Prepared By: SM

| Param    | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | 91.1          | mg/Kg | 1    | 100             | <0.500           | 91   | 85 - 115      |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

| Param    | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|----------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | 92.9           | mg/Kg | 1    | 100             | <0.500           | 93   | 85 - 115      | 2   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

**Matrix Spike (MS-1) Spiked Sample: 113482**

QC Batch: 33531 Date Analyzed: 2007-01-10 Analyzed By: SM  
Prep Batch: 29129 QC Preparation: 2007-01-10 Prepared By: SM

| Param    | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | 176          | mg/Kg | 2    | 200             | 4.301            | 86   | 84.6 - 117    |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Report Date: January 10, 2007  
Pipe Line Deep 18 Fed #3

Work Order: 7011019

Page Number: 4 of 5  
Pipe Line Deep 18 Fed #3

| Param    | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | 170           | mg/Kg | 2    | 200             | 4.301            | 83   | 84.6 - 117    | 4   | 20           |

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

#### Standard (ICV-1)

QC Batch: 33531

Date Analyzed: 2007-01-10

Analyzed By: SM

| Param    | Flag | Units | ICVs<br>True<br>Conc. | ICVs<br>Found<br>Conc. | ICVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |      | mg/Kg | 100                   | 101                    | 101                         | 85 - 115                      | 2007-01-10       |

#### Standard (CCV-1)

QC Batch: 33531

Date Analyzed: 2007-01-10

Analyzed By: SM

| Param    | Flag | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|------|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |      | mg/Kg | 100                   | 99.1                   | 99                          | 85 - 115                      | 2007-01-10       |

<sup>1</sup>Matrix spike recoveries out of control limits due to matrix spike being diluted out. Use LCS/LCSD to demonstrate analysis is under control.

Report Date: January 10, 2007  
Pipe Line Deep 18 Fed #3

Work Order: 7011019

Page Number: 5 of 5  
Pipe Line Deep 18 Fed #3

LAB Order ID # 7011019

Page of

# TraceAnalysis, Inc.

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6615 Harris Pkwy., Suite 110  
Ft. Worth, Texas 76152  
Tel (817) 201-5260

Company Name: New Mexico Environmental Services (505) 441-0403  
Address: Box 310 Hobbs N.M.  
Contact Person: Cris Belsby  
Phone #: (505) 392-3085  
Fax #: (505) 392-3085  
E-mail: claryrogers@aol.com  
Invoice to: C Enorex Energy  
Project Name: Pipe Line Deep 18 Fed #3

Project Location (including state): Pipe Line Deep 18 Fed #3  
Sampler Signature: Cris Belsby

## ANALYSIS REQUEST (Circle or Specify Method No.)

| LAB #<br>(LAB USE ONLY) | FIELD CODE             | # CONTAINERS | Volume / Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      |     |      | SAMPLING |      | Turn Around Time if different from standard | Ppt |
|-------------------------|------------------------|--------------|-----------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|-----|------|----------|------|---------------------------------------------|-----|
|                         |                        |              |                 | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE | NONE | DATE     | TIME |                                             |     |
| 113477                  | #001 E. Leg 8'         | 1            | 4oz             | X      |      |     |        |                     |                  |                                |      | X   |      | 1/9/07   | 1:00 |                                             |     |
| 78                      | #002 N. Leg 8'         |              |                 | X      |      |     |        |                     |                  |                                |      | X   |      | 1:30     |      |                                             |     |
| 79                      | #003 W. Leg 10'        |              |                 | X      |      |     |        |                     |                  |                                |      | X   |      | 2:00     |      |                                             |     |
| 80                      | #004 E. Inside Leg 8'  |              |                 | X      |      |     |        |                     |                  |                                |      | X   |      | 2:30     |      |                                             |     |
| 81                      | #005 W. Inside Leg 10' |              |                 | X      |      |     |        |                     |                  |                                |      | X   |      | 3:00     |      |                                             |     |
| 82                      | Sample #006 Background | 1            | 4oz             | X      |      |     |        |                     |                  |                                |      | X   |      | 3:30     |      |                                             |     |

Relinquished by: Cris Belsby Date: 1-10-07 Time: 7:00 AM  
Received by: Karen Paul Date: 1-10-07 Time: 7:00 AM  
Relinquished by: Karen Paul Date: 1-10-07 Time: 11:00 AM  
Received at Laboratory by: Shirley D. Ruppel Date: 1-10-07 Time: 11:00 AM

LAB USE ONLY

Initial: CPN  
Headspace: Y/N  
Temp: 40  
Log # Review: WJ  
Carrier # Carry 120

REMARKS:

☐ Dry Weight Basis Required  
☐ TRRP Report Required  
☐ Check if Special Reporting Units Are Needed

Submission of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

ORIGINAL COPY

# Amarex - Pipeline Deep 18 feet #3

