

## Summary Report

Dorsey Rogers  
Cimarex  
207 S Mesa  
Carlsbad, NM, 88220

Report Date: January 4, 2007

Work Order: 7010406



Project Location: Sec. 7 T215-R27E Eddy Co. N.M.  
Project Name: Colton 7 Fed #1  
Project Number: API 30-015-33101

| Sample | Description   | Matrix | Date Taken | Time Taken | Date Received |
|--------|---------------|--------|------------|------------|---------------|
| 113034 | F3 North Half | soil   | 2007-01-02 | 13:30      | 2007-01-04    |
| 113035 | F3 South Half | soil   | 2007-01-02 | 13:40      | 2007-01-04    |
| 113036 | NW Corner     | soil   | 2007-01-02 | 13:50      | 2007-01-04    |
| 113037 | F3 North Deep | soil   | 2007-01-02 | 14:40      | 2007-01-04    |
| 113038 | F3 South Deep | soil   | 2007-01-02 | 14:50      | 2007-01-04    |

### Sample: 113034 - F3 North Half

| Param    | Flag | Result | Units | RL   |
|----------|------|--------|-------|------|
| Chloride |      | 4490   | mg/Kg | 2.00 |

### Sample: 113035 - F3 South Half

| Param    | Flag | Result | Units | RL   |
|----------|------|--------|-------|------|
| Chloride |      | 12200  | mg/Kg | 2.00 |

### Sample: 113036 - NW Corner

| Param    | Flag | Result | Units | RL   |
|----------|------|--------|-------|------|
| Chloride |      | 5970   | mg/Kg | 2.00 |

### Sample: 113037 - F3 North Deep

| Param    | Flag | Result | Units | RL   |
|----------|------|--------|-------|------|
| Chloride |      | 14200  | mg/Kg | 2.00 |

### Sample: 113038 - F3 South Deep

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Colton 7 Fed #1

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| Param    | Flag | Result       | Units | RL   |
|----------|------|--------------|-------|------|
| Chloride |      | <b>14000</b> | mg/Kg | 2.00 |



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## Analytical and Quality Control Report

Dorsey Rogers  
Cimarex  
207 S Mesa  
Carlsbad, NM, 88220

Report Date: January 4, 2007

Work Order: 7010406



Project Location: Sec. 7 T215-R27E Eddy Co. N.M.  
Project Name: Colton 7 Fed #1  
Project Number: API 30-015-33101

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 |
|--------|---------------|--------|------------|------------|---------------|
| 113034 | F3 North Half | soil   | 2007-01-02 | 13:30      | 2007-01-04    |
| 113035 | F3 South Half | soil   | 2007-01-02 | 13:40      | 2007-01-04    |
| 113036 | NW Corner     | soil   | 2007-01-02 | 13:50      | 2007-01-04    |
| 113037 | F3 North Deep | soil   | 2007-01-02 | 14:40      | 2007-01-04    |
| 113038 | F3 South Deep | soil   | 2007-01-02 | 14:50      | 2007-01-04    |

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.

## Analytical Report

### Sample: 113034 - F3 North Half

|             |                      |                     |              |              |     |
|-------------|----------------------|---------------------|--------------|--------------|-----|
| Analysis:   | Chloride (Titration) | Analytical Method:  | SM 4500-Cl B | Prep Method: | N/A |
| QC Batch:   | 33370                | Date Analyzed:      | 2007-01-04   | Analyzed By: | SM  |
| Prep Batch: | 29002                | Sample Preparation: | 2007-01-04   | Prepared By: | SM  |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| Chloride  |      | 4490         | mg/Kg | 100      | 2.00 |

### Sample: 113035 - F3 South Half

|             |                      |                     |              |              |     |
|-------------|----------------------|---------------------|--------------|--------------|-----|
| Analysis:   | Chloride (Titration) | Analytical Method:  | SM 4500-Cl B | Prep Method: | N/A |
| QC Batch:   | 33370                | Date Analyzed:      | 2007-01-04   | Analyzed By: | SM  |
| Prep Batch: | 29002                | Sample Preparation: | 2007-01-04   | Prepared By: | SM  |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| Chloride  |      | 12200        | mg/Kg | 200      | 2.00 |

### Sample: 113036 - NW Corner

|             |                      |                     |              |              |     |
|-------------|----------------------|---------------------|--------------|--------------|-----|
| Analysis:   | Chloride (Titration) | Analytical Method:  | SM 4500-Cl B | Prep Method: | N/A |
| QC Batch:   | 33370                | Date Analyzed:      | 2007-01-04   | Analyzed By: | SM  |
| Prep Batch: | 29002                | Sample Preparation: | 2007-01-04   | Prepared By: | SM  |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| Chloride  |      | 5970         | mg/Kg | 100      | 2.00 |

### Sample: 113037 - F3 North Deep

|             |                      |                     |              |              |     |
|-------------|----------------------|---------------------|--------------|--------------|-----|
| Analysis:   | Chloride (Titration) | Analytical Method:  | SM 4500-Cl B | Prep Method: | N/A |
| QC Batch:   | 33370                | Date Analyzed:      | 2007-01-04   | Analyzed By: | SM  |
| Prep Batch: | 29002                | Sample Preparation: | 2007-01-04   | Prepared By: | SM  |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| Chloride  |      | 14200        | mg/Kg | 200      | 2.00 |

### Sample: 113038 - F3 South Deep

|             |                      |                     |              |              |     |
|-------------|----------------------|---------------------|--------------|--------------|-----|
| Analysis:   | Chloride (Titration) | Analytical Method:  | SM 4500-Cl B | Prep Method: | N/A |
| QC Batch:   | 33370                | Date Analyzed:      | 2007-01-04   | Analyzed By: | SM  |
| Prep Batch: | 29002                | Sample Preparation: | 2007-01-04   | Prepared By: | SM  |

| Parameter | Flag | RL<br>Result | Units | Dilution | RL   |
|-----------|------|--------------|-------|----------|------|
| Chloride  |      | 14000        | mg/Kg | 200      | 2.00 |

**Method Blank (1)** QC Batch: 33370

QC Batch: 33370  
Prep Batch: 29002

Date Analyzed: 2007-01-04  
QC Preparation: 2007-01-04

Analyzed By: SM  
Prepared By: SM

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

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

QC Batch: 33370  
Prep Batch: 29002

Date Analyzed: 2007-01-04  
QC Preparation: 2007-01-04

Analyzed By: SM  
Prepared By: SM

| Param    | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | 102           | mg/Kg | 1    | 100             | <0.500           | 102  | 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 | 103            | mg/Kg | 1    | 100             | <0.500           | 103  | 85 - 115      | 1   | 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: 113038

QC Batch: 33370  
Prep Batch: 29002

Date Analyzed: 2007-01-04  
QC Preparation: 2007-01-04

Analyzed By: SM  
Prepared By: SM

| Param    | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride | 32200        | mg/Kg | 200  | 20000           | 13952.6          | 91   | 70 - 130      |

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

| Param    | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride | 32600         | mg/Kg | 200  | 20000           | 13952.6          | 93   | 70 - 130      | 1   | 20           |

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

**Standard (ICV-1)**

QC Batch: 33370

Date Analyzed: 2007-01-04

Analyzed By: SM

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| 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                   | 99.6                   | 100                         | 85 - 115                      | 2007-01-04       |

**Standard (CCV-1)**

QC Batch: 33370

Date Analyzed: 2007-01-04

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                   | 100                    | 100                         | 85 - 115                      | 2007-01-04       |

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|                                                                                                        |               |                                                                                      |                 |                                  |      |                                                                       |        |                     |                  |                                |      |     |          |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |      |      |
|--------------------------------------------------------------------------------------------------------|---------------|--------------------------------------------------------------------------------------|-----------------|----------------------------------|------|-----------------------------------------------------------------------|--------|---------------------|------------------|--------------------------------|------|-----|----------|------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|------|------|
| Company Name: <u>Cimaire</u>                                                                           |               | Phone #:                                                                             |                 |                                  |      |                                                                       |        |                     |                  |                                |      |     |          |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |      |      |
| Address: <u>207 S. Mesa Carlsbad nm 8820</u><br>(Street, City, Zip)                                    |               | Fax #:                                                                               |                 |                                  |      |                                                                       |        |                     |                  |                                |      |     |          |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |      |      |
| Contact Person: <u>Dorsey Rogers</u>                                                                   |               | E-mail: <u>Deeryenergy@datacentral.net</u>                                           |                 |                                  |      |                                                                       |        |                     |                  |                                |      |     |          |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |      |      |
| Invoice to:                                                                                            |               | Project Name: <u>Colton 7 Fed #1</u>                                                 |                 |                                  |      |                                                                       |        |                     |                  |                                |      |     |          |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |      |      |
| If different from above)                                                                               |               | Project #:                                                                           |                 |                                  |      |                                                                       |        |                     |                  |                                |      |     |          |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |      |      |
| Project Location (including state): <u>Dec 7-2015 - R 27E Eddy County New Mexico</u>                   |               | Sampler Signature: <u>[Signature]</u>                                                |                 |                                  |      |                                                                       |        |                     |                  |                                |      |     |          |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |      |      |
| LAB #<br>(LAB USE ONLY)                                                                                | FIELD CODE    | # CONTAINERS                                                                         | Volume / Amount | MATRIX                           |      |                                                                       |        | PRESERVATIVE METHOD |                  |                                |      |     | SAMPLING |      | MTBE 8021B / 602 / 8260B / 624<br>BTX 8021B / 602 / 8260B / 624<br>TPH 418.1 / TX1005 / TX1005 Ext(C35)<br>TPH 8015 GRO / DRO / TVHC<br>PAH 8270C / 625<br>Total Metals Ag As Ba Cd Cr Pb Se Hg 60105/200.7<br>TCLP Metals Ag As Ba Cd Cr Pb Se Hg<br>TCLP Volatiles<br>TCLP Semi Volatiles<br>TCLP Pesticides<br>RCI<br>GC/MS Vol. 8260B / 624<br>GC/MS Semi. Vol. 8270C / 625<br>PCB's 8082 / 608<br>Pesticides 8081A / 608<br>BOD, TSS, pH<br>Moisture Content<br><u>Chloride</u> | Turn Around Time if different from standard | Hold |      |
|                                                                                                        |               |                                                                                      |                 | WATER                            | SOIL | AIR                                                                   | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE | NONE     | DATE |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |      | TIME |
| 1/3034                                                                                                 | F3-North half | 1                                                                                    |                 |                                  |      |                                                                       |        |                     |                  |                                |      |     | 1/2/07   | 1330 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |      |      |
| 35                                                                                                     | F3-South half | 1                                                                                    |                 |                                  |      |                                                                       |        |                     |                  |                                |      |     | 1-2-07   | 1340 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |      |      |
| 36                                                                                                     | NW-Corner     | 1                                                                                    |                 |                                  |      |                                                                       |        |                     |                  |                                |      |     | 1-2-07   | 1350 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |      |      |
| 37                                                                                                     | F3-North Deep | 1                                                                                    |                 |                                  |      |                                                                       |        |                     |                  |                                |      |     | 1/2/07   | 1440 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |      |      |
| 38                                                                                                     | F3-South Deep | 1                                                                                    |                 |                                  |      |                                                                       |        |                     |                  |                                |      |     | 1/2/07   | 1450 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |      |      |
| Relinquished by: <u>[Signature]</u> Date: <u>1/30/07</u> Time: <u>355PM</u>                            |               | Received by: <u>[Signature]</u> Date: <u>1-30-07</u> Time: <u>355PM</u>              |                 | LAB USE ONLY                     |      | REMARKS:                                                              |        |                     |                  |                                |      |     |          |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |      |      |
| Relinquished by:                                                                                       |               | Received by:                                                                         |                 | Intact <u>Y/N</u>                |      | <input type="checkbox"/> Dry Weight Basis Required                    |        |                     |                  |                                |      |     |          |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |      |      |
| Relinquished by:                                                                                       |               | Received by:                                                                         |                 | Headspace <u>Y/N</u>             |      | <input type="checkbox"/> TRRP Report Required                         |        |                     |                  |                                |      |     |          |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |      |      |
| Relinquished by:                                                                                       |               | Received at Laboratory by: <u>[Signature]</u> Date: <u>1-4-07</u> Time: <u>10:15</u> |                 | Temp <u>RT</u>                   |      | <input type="checkbox"/> Check If Special Reporting Limits Are Needed |        |                     |                  |                                |      |     |          |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |      |      |
| Relinquished by:                                                                                       |               | Received by:                                                                         |                 | Log-in/Review <u>[Signature]</u> |      |                                                                       |        |                     |                  |                                |      |     |          |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |      |      |
| Submission of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C. |               |                                                                                      |                 |                                  |      |                                                                       |        |                     |                  |                                |      |     |          |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |      |      |
| Carrier # <u>UPS 12716240E 22mm4.55</u>                                                                |               |                                                                                      |                 |                                  |      |                                                                       |        |                     |                  |                                |      |     |          |      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                             |      |      |