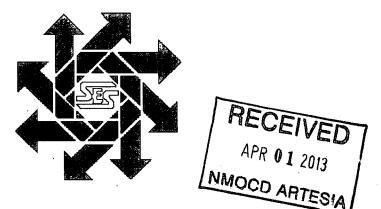
## OXY Permian Eeyore 34 State #1 Delineation Report and Work Plan

## Section 24, T17S, R28E Eddy County, New Mexico

January 24, 2013



Prepared for:

Oxy Permian P.O. Box 1988 Carlsbad, New Mexico 88221

By:

Safety & Environmental Solutions, Inc. 703 East Clinton Street Hobbs, New Mexico 88240 (575) 397-0510

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## I. Company Contacts

| Representative | tative Company Telephone |              | E-mail                    |  |  |
|----------------|--------------------------|--------------|---------------------------|--|--|
| Chris Jones    | Oxy Permian              | 575-625-4121 | Christopher_Jones@oxy.com |  |  |
| Bob Allen      | SESI                     | 575-397-0510 | ballen@sesi-nm.com        |  |  |

## II. Background

Safety and Environmental Solutions, Inc. (SESI) was engaged by Oxy Permian Company to perform site assessment of a release area at the Eeyore 34 State 001 located in Section 24 of Township 17 South, Range 28 East, Eddy County, New Mexico.

According to the C-141, the cause of the release was due to the valve on a rental frac tank was not closed properly. Approximately 103 barrels (bbls) of produced water was released.

## III. Surface and Ground Water

The nearest groundwater of record is approximately 1.3 miles north of the site. The United States Geological Survey record is in Section 22 Range 28 East and Township 17 South. The reported depth was 79 feet below ground surface (bgs).

## IV. Work Performed

On November 14, 2012, SESI was onsite at the OXY Eeyore 34 State #1 for a site assessment. The release area was mapped utilizing a Trimble Juno 3D. A total of 5 auger holes were installed to obtain vertical extent of contamination. Refusal on all auger holes was found at one foot depths. There were four (4) Frac Tanks on site where the release occurred and staining was observed underneath the Frac Tanks. Frac tanks will have to be moved for further delineation.

On January 16, 2013, SESI was onsite at the OXY Eeyore 34 State #1 with Alfredo's Trucking Back hoe with an operator to install test trenches to determine vertical extent of contamination. JSA and safety meeting were conducted. Five test trenches were installed and soil samples were obtained at one foot intervals. The samples were properly packaged, preserved and transported to Cardinal Laboratories, Hobbs NM and analyzed for chlorides (SM4500Cl-B), Benzene, Toluene, Ethyl benzene, Total Xylenes, (BTEX)(EPA method 8021B), and Total petroleum hydrocarbon (TPH) (method 418.1). The results of the analysis are presented in the table below:

| Sample ID    | Lâb<br>Ĉl<br>(mg/kg) | Lab<br>TPH 418.1<br>(mg/kg) | Lab<br>Benzene<br>(mg/kg) | Lab<br>Toluene<br>(mg/kg) | Lab<br>Ethyl benzene<br>(mg/kg) | Lâb<br>Xylenes<br>(mg/kg) |
|--------------|----------------------|-----------------------------|---------------------------|---------------------------|---------------------------------|---------------------------|
| TT-1: 1' bgs | 128                  | -                           | -                         | -                         | -                               | -                         |
| TT-1: 2' bgs | 32.0                 | <100                        | <0.050                    | <0.050                    | <0.050                          | <0.150                    |
| TT-2: 1' bgs | 2,240                |                             | -                         | -                         | -                               | -                         |
| TT-2: 2' bgs | 144                  | <100                        | <0.050                    | <0.050                    | < 0.050                         | <0.150                    |
| TT-3: 1' bgs | 4,880                | -                           | -                         | -                         | -                               | -                         |
| TT-3: 2' bgs | 64.0                 | <100                        | <0.050                    | <0.050                    | <0.050                          | <0.150                    |
| TT-4: 1' bgs | 1,070                | _                           | -                         | -                         | -                               | -                         |
| TT-4: 2' bgs | 816                  | -                           | -                         | _                         | -                               | -                         |
| TT-4: 3' bgs | 48.0                 | <100                        | <0.050                    | <0.050                    | < 0.050                         | <0.150                    |

1

| TT-5: 1' bgs | 416    | -    | -      | -      | -      | -      |
|--------------|--------|------|--------|--------|--------|--------|
| TT-5: 2' bgs | 16,000 | -    | -      | -      | -      | -      |
| TT-5: 3' bgs | 13,000 | -    | -      | -      | -      | -      |
| TT-5: 4' bgs | 4,400  | -    | -      | -      | -      | -      |
| TT-5: 6' bgs | 224    | <100 | <0.050 | <0.050 | <0.050 | <0.150 |

The release area and test trench sample points were mapped using the Trimble Juno 3D and site photos were taken.

## V. Action Plan

The results of the analysis indicate that the vertical extent of contamination was found in all test trenches at a depth of two (2) ft. bgs in TT 1-3, at three (3) ft. bgs in TT-4 and at six (6) ft. bgs in TT-5. It is proposed that the most highly contaminated and/or saturated soils be excavated, which in this case, TT 1-3 area be excavated to a depth of 1.5 ft. bgs; TT 4 area to a depth of 2.5 ft. bgs; and TT-5 area to a depth of 5 ft. The excavated soils will be transported to a New Mexico Oil Conservation Division (NMOCD) approved facility for disposal. The excavations will then be backfilled with clean caliche and compacted to the original pad elevation.

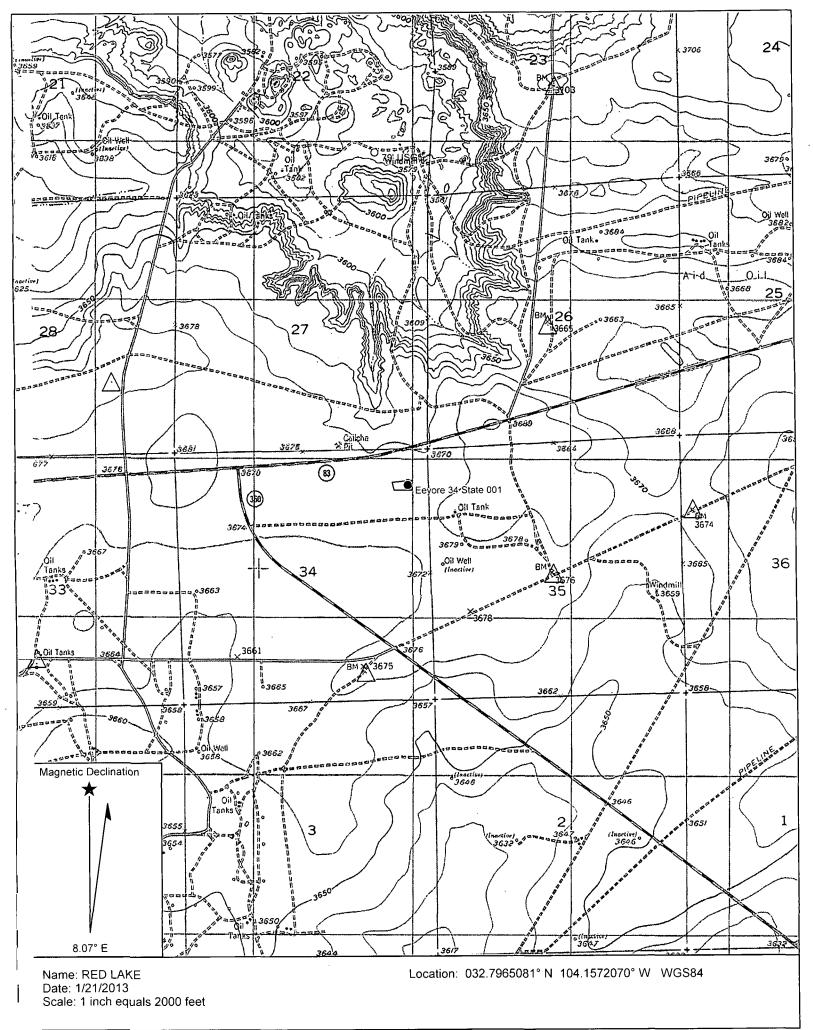
This is an active tank battery and the operator is fully aware that at such time the battery and lease is abandoned, additional cleanup may be required.

Upon completion a closure report will be submitted to the NMOCD.

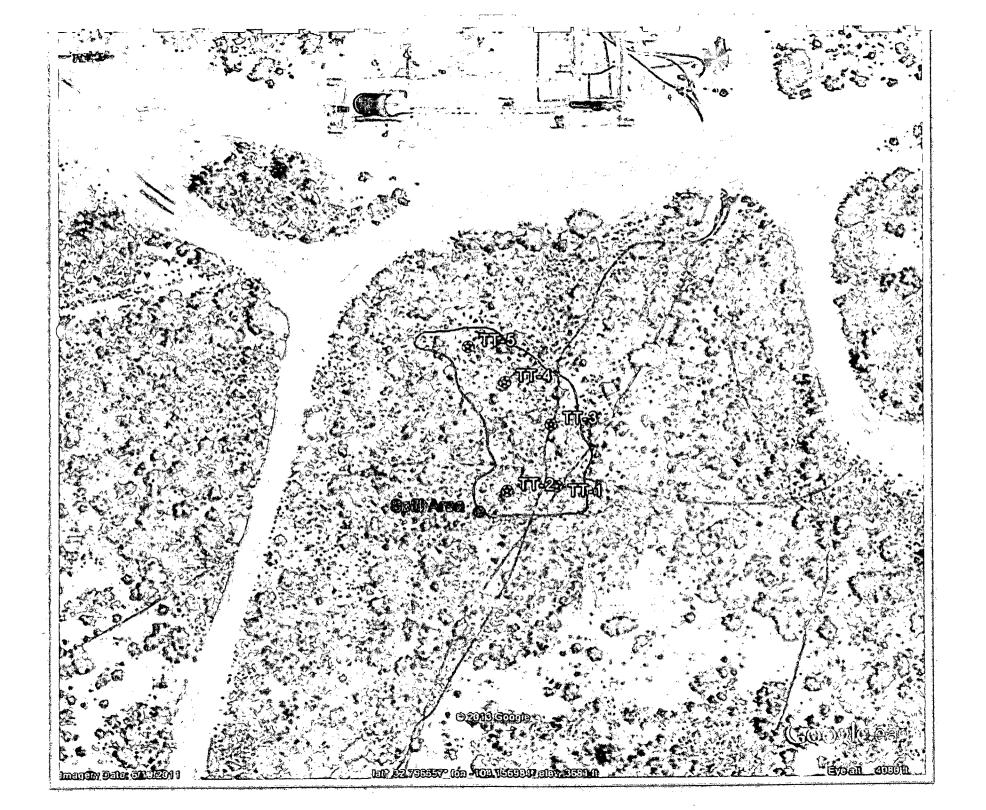
## VI. Figures & Appendices

Figure 1 – Vicinity Map Figure 2 – Site Plan Appendix A – Analytical Results Appendix B—Site Photographs Appendix C – C-141

# Figure 1 Vicinity Map



## Figure 2 Site Plan



## Appendix A Analytical Results



January 24, 2013

Bob Allen Safety & Environmental Solutions 703 East Clinton Hobbs, NM 88240

APR 01 2013

RE: EEYORE 34 STATE #1

Enclosed are the results of analyses for samples received by the laboratory on 01/18/13 8:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accredited certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

| Method EPA 552.2 | Haloacetic Acids (HAA-5)     |
|------------------|------------------------------|
| Method EPA 524.2 | Total Trihalomethanes (TTHM) |
| Method EPA 524.4 | Regulated VOCs (V1, V2, V3)  |

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celeg D. Keine

Celey D. Keene Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

| Received:         | 01/18/2013              | Sampling Date:      | 01/16/2013    |
|-------------------|-------------------------|---------------------|---------------|
| Reported:         | 01/24/2013              | Sampling Type:      | Soil          |
| Project Name:     | EEYORE 34 STATE #1      | Sampling Condition: | Cool & Intact |
| Project Number:   | OXY-12-018              | Sample Received By: | Jodi Henson   |
| Project Location: | LOCO HILLS, EDDY COUNTY |                     |               |

### Sample ID: TT - 1 1' BGS (H300137-01)

| Chloride, SM4500Cl-B | mg/kg  |                 | Analyzed By: AP |              |     |            |               |      |           |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 128    | 16.0            | 01/22/2013      | ND           | 448 | 112        | 400           | 3.64 |           |

### Sample ID: TT - 1 2' BGS (H300137-02)

| BTEX 8021B                           | mg,            | /kg             | Analyzed By: AP |              |      |            |               |      |           |
|--------------------------------------|----------------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte                              | Result         | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050         | 0.050           | 01/22/2013      | ND           | 1.94 | 97.1       | 2.00          | 17.4 |           |
| Toluene*                             | <0.050         | 0.050           | 01/22/2013      | ND           | 1.93 | 96.6       | 2.00          | 16.7 |           |
| Ethylbenzene*                        | <0.050         | 0.050           | 01/22/2013      | ND           | 1.94 | 97.0       | 2.00          | 17.0 |           |
| Total Xylenes*                       | <0.150         | 0.150           | 01/22/2013      | ND           | 5.92 | 98.7       | 6.00          | 16.8 |           |
| Total BTEX                           | <0.300         | 0.300           | 01/22/2013      | ND           |      |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PIL | 104            | % 89.4-12       | 6               |              |      |            |               |      |           |
| Chloride, SM4500CI-B                 | mg,            | /kg             | Analyze         | d By: AP     |      |            |               |      |           |
| Analyte                              | Result         | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                             | 32.0           | 16.0            | 01/22/2013      | ND           | 448  | 112        | 400           | 3.64 |           |
| ТРН 418.1                            | mg/kg Analyzee |                 | d By: CK        |              |      |            |               |      |           |
| Analyte                              | Result         | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| TPH 418.1                            | <100           | 100             | 01/24/2013      | ND           | 2100 | 84.0       | 2500          | 3.28 |           |

#### **Cardinal Laboratories**

#### \*=Accredited Analyte

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

| Received:         | 01/18/2013              | Sampling Date:      | 01/16/2013    |
|-------------------|-------------------------|---------------------|---------------|
| Reported:         | 01/24/2013              | Sampling Type:      | Soil          |
| Project Name:     | EEYORE 34 STATE #1      | Sampling Condition: | Cool & Intact |
| Project Number:   | OXY-12-018              | Sample Received By: | Jodi Henson   |
| Project Location: | LOCO HILLS, EDDY COUNTY |                     |               |

#### Sample ID: TT - 2 1' BGS (H300137-03)

| Chloride, SM4500CI-B | .mg/   | /kg             | Analyze    | d By: AP     |     |            |               |      |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 2240   | 16.0            | 01/22/2013 | ND           | 448 | 112        | 400           | 3.64 |           |

#### Sample ID: TT - 2 2' BGS (H300137-04)

| Analyte        | mg,    | /kg             | Analyzed By: AP |              | •    |            |               |      |           |
|----------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
|                | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 01/22/2013      | ND           | 1.94 | 97.1       | 2.00          | 17.4 |           |
| Toluene*       | <0.050 | 0.050           | 01/22/2013      | ND           | 1.93 | 96.6       | 2.00          | 16.7 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 01/22/2013      | ND           | 1.94 | 97.0       | 2.00          | 17.0 |           |
| Total Xylenes* | <0.150 | 0.150           | 01/22/2013      | ND           | 5.92 | 98.7       | 6.00          | 16.8 |           |
| Total BTEX     | <0.300 | 0.300           | 01/22/2013      | ND           |      |            |               |      |           |
|                |        |                 |                 |              |      |            |               |      |           |

#### Surrogate: 4-Bromofluorobenzene (PIC 102 % 89.4-126

| Chloride, SM4500CI-B | mg,    | /kg             | Analyze    |                 |      |            |               | RPD  |           |
|----------------------|--------|-----------------|------------|-----------------|------|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC |      | Qualifier |
| Chloride             | 144    | 16.0            | 01/22/2013 | ND              | 448  | 112        | 400           | 3.64 | ·         |
| TPH 418.1            | mg,    | /kg             | Analyze    | Analyzed By: CK |      |            |               |      |           |
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| TPH 418.1            | <100   | 100             | 01/24/2013 | ND              | 2100 | 84.0       | 2500          | 3.28 |           |

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#### \*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

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| Received:         | 01/18/2013              | Sampling Date:      | 01/16/2013    |
|-------------------|-------------------------|---------------------|---------------|
| Reported:         | 01/24/2013              | Sampling Type:      | Soil          |
| Project Name:     | EEYORE 34 STATE #1      | Sampling Condition: | Cool & Intact |
| Project Number:   | OXY-12-018              | Sample Received By: | Jodi Henson   |
| Project Location: | LOCO HILLS, EDDY COUNTY |                     |               |

### Sample ID: TT - 3 1' BGS (H300137-05)

| Chloride, SM4500CI-B | mg     | /kg             | Analyze    | d By: AP     |     |            |               |      |           |
|----------------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 4880   | 16.0            | 01/22/2013 | ND           | 448 | 112        | 400           | 3.64 |           |

#### Sample ID: TT - 3 2' BGS (H300137-06)

| BTEX 8021B                           | mg/kg  |                 | Analyze    | Analyzed By: AP |      | , , <del>_</del> . |               |      |           |
|--------------------------------------|--------|-----------------|------------|-----------------|------|--------------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery         | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 01/22/2013 | ND              | 1.94 | 97.1               | 2.00          | 17.4 |           |
| Toluene*                             | <0.050 | 0.050           | 01/22/2013 | ND              | 1.93 | 96.6               | 2.00          | 16.7 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 01/22/2013 | ND              | 1.94 | 97.0               | 2.00          | 17.0 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 01/22/2013 | ND              | 5.92 | 98.7               | 6.00          | 16.8 |           |
| Total BTEX                           | <0.300 | 0.300           | 01/22/2013 | ND              |      |                    |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PIL | 102    | % 89.4-12       | 6          |                 |      |                    |               |      |           |
| Chloride, SM4500CI-B                 | mg/    | 'kg             | Analyze    | d By: AP        |      |                    |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery         | True Value QC | RPD  | Qualifier |
| Chloride                             | 64.0   | 16.0            | 01/22/2013 | ND              | 448  | 112                | 400           | 3.64 |           |
| ТРН 418.1                            | mg,    | 'kg             | Analyze    | d By: CK        |      |                    |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank    | BS   | % Recovery         | True Value QC | RPD  | Qualifier |
| TPH 418.1                            | <100   | 100             | 01/24/2013 | ND              | 2100 | 84.0               | 2500          | 3.28 |           |

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Celey D. Keene, Lab Director/Quality Manager

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| Received:         | 01/18/2013              | Sampling Date:      | 01/16/2013    |
|-------------------|-------------------------|---------------------|---------------|
| Reported:         | 01/24/2013              | Sampling Type:      | Soil          |
| Project Name:     | EEYORE 34 STATE #1      | Sampling Condition: | Cool & Intact |
| Project Number:   | OXY-12-018              | Sample Received By: | Jodi Henson   |
| Project Location: | LOCO HILLS, EDDY COUNTY |                     |               |

#### Sample ID: TT - 4 1' BGS (H300137-07)

| Chloride, SM4500Cl-B | M4500Cl-B mg/kg |                 | Analyze    | Analyzed By: AP |     |            |               |      |           |
|----------------------|-----------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result          | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 1070            | 16.0            | 01/22/2013 | ND              | 448 | 112        | 400           | 3.64 |           |

#### Sample ID: TT - 4 2' BGS (H300137-08)

| Chloride, SM4500CI-B | mg/kg  |                 | Analyzed By: AP |              |     |            |               |      |           |
|----------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 816    | 16.0            | 01/22/2013      | ND           | 448 | 112        | 400           | 3.64 |           |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



#### PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

#### Analytical Results For:

Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

| Received:         | 01/18/2013              | Sampling Date:      | 01/16/2013    |  |
|-------------------|-------------------------|---------------------|---------------|--|
| Reported:         | 01/24/2013              | Sampling Type:      | Soil          |  |
| Project Name:     | EEYORE 34 STATE #1      | Sampling Condition: | Cool & Intact |  |
| Project Number:   | OXY-12-018              | Sample Received By: | Jodi Henson   |  |
| Project Location: | LOCO HILLS, EDDY COUNTY |                     |               |  |

#### Sample ID: TT - 4 3' BGS (H300137-09)

| BTEX 8021B                           | mg/kg  |                 | Analyze    | d By: AP     |               |            |               |      |           |
|--------------------------------------|--------|-----------------|------------|--------------|---------------|------------|---------------|------|-----------|
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS            | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*                             | <0.050 | 0.050           | 01/22/2013 | ND           | 1.94          | 97.1       | 2.00          | 17.4 |           |
| Toluene*                             | <0.050 | 0.050           | 01/22/2013 | ND           | 1.93          | 96.6       | 2.00          | 16.7 |           |
| Ethylbenzene*                        | <0.050 | 0.050           | 01/22/2013 | ND           | <b>1.94</b> · | 97.0       | 2.00          | 17.0 |           |
| Total Xylenes*                       | <0.150 | 0.150           | 01/22/2013 | ND           | 5.92          | 98.7       | 6.00          | 16.8 |           |
| Total BTEX                           | <0.300 | 0.300           | 01/22/2013 | ND           |               |            |               |      |           |
| Surrogate: 4-Bromofluorobenzene (PIL | 102    | % 89.4-12       | 6          |              |               |            |               |      |           |
| Chloride, SM4500CI-B                 | mg/    | /kg             | Analyze    | d By: AP     |               |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS            | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                             | 48.0   | 16.0            | 01/22/2013 | ND           | 448           | 112        | 400           | 3.64 |           |
| TPH 418.1                            | mg/    | /kg             | Analyze    | d By: CK     |               |            |               |      |           |
| Analyte                              | Result | Reporting Limit | Analyzed   | Method Blank | BS            | % Recovery | True Value QC | RPD  | Qualifier |
| TPH 418.1                            | <100   | 100             | 01/24/2013 | ND           | 2100          | 84.0       | 2500          | 3.28 |           |

#### Sample ID: TT - 5 1' BGS (H300137-10)

| Chloride, SM4500CI-B mg/kg |        | Analyze         | Analyzed By: AP |              |     |            |               |      |           |
|----------------------------|--------|-----------------|-----------------|--------------|-----|------------|---------------|------|-----------|
| Analyte                    | Result | Reporting Limit | Analyzed        | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride                   | 416    | 16.0            | 01/22/2013      | ND           | 448 | 112        | 400           | 3.64 |           |

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#### \*=Accredited Analyte

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Celez Di Keine

Celey D. Keene, Lab Director/Quality Manager



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

| Received:         | 01/18/2013              | Sampling Date:      | 01/16/2013    |
|-------------------|-------------------------|---------------------|---------------|
| Reported:         | 01/24/2013              | Sampling Type:      | Soil          |
| Project Name:     | EEYORE 34 STATE #1      | Sampling Condition: | Cool & Intact |
| Project Number:   | OXY-12-018              | Sample Received By: | Jodi Henson   |
| Project Location: | LOCO HILLS, EDDY COUNTY |                     |               |

#### Sample ID: TT - 5 2' BGS (H300137-11)

| Chloride, SM4500Cl-B | ride, SM4500Cl-B mg/kg |                 | Analyze    | Analyzed By: AP |     |            | <u></u>       |      |           |
|----------------------|------------------------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result                 | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 16000                  | 16.0            | 01/22/2013 | ND              | 448 | 112        | 400           | 3.64 |           |

#### Sample ID: TT - 5 3' BGS (H300137-12)

| Chloride, SM4500CI-B | mg,    | /kg             | Analyze    | Analyzed By: AP |     |            |               |      |           |
|----------------------|--------|-----------------|------------|-----------------|-----|------------|---------------|------|-----------|
| Analyte              | Result | Reporting Limit | Analyzed   | Method Blank    | BS  | % Recovery | True Value QC | RPD  | Qualifier |
| Chloride             | 13000  | 16.0            | 01/22/2013 | ND              | 448 | 112        | 400 .         | 3.64 |           |

#### Sample ID: TT - 5 4' BGS (H300137-13)

Chloride, SM4500CI-B mg/kg Analyzed By: AP

| Analyte  | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |
|----------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|
| Chloride | 4400   | 16.0            | 01/22/2013 | ND           | 448 | 112        | 400           | 3.64 |           |

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#### \*=Accredited Analyte

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Celey & Keine

Celey D. Keene, Lab Director/Quality Manager

Page 7 of 11



Safety & Environmental Solutions Bob Allen 703 East Clinton Hobbs NM, 88240 Fax To: (575) 393-4388

| Received:         | 01/18/2013              | Sampling Date:      | 01/16/2013    |
|-------------------|-------------------------|---------------------|---------------|
| Reported:         | 01/24/2013              | Sampling Type:      | Soil          |
| Project Name:     | EEYORE 34 STATE #1      | Sampling Condition: | Cool & Intact |
| Project Number:   | OXY-12-018              | Sample Received By: | Jodi Henson   |
| Project Location: | LOCO HILLS, EDDY COUNTY |                     |               |

#### Sample ID: TT - 5 6' BGS (H300137-14)

| BTEX 8021B                      |        | kg              | Analyzed By: AP |              |      |            |               |      |           |
|---------------------------------|--------|-----------------|-----------------|--------------|------|------------|---------------|------|-----------|
| Analyte                         | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| ne*                             | <0.050 | 0.050           | 01/22/2013      | ND           | 1.94 | 97.1       | 2.00          | 17.4 |           |
| ne*                             | <0.050 | 0.050           | 01/22/2013      | ND           | 1.93 | 96.6       | ·2.00         | 16.7 |           |
| enzene*                         | <0.050 | 0.050           | 01/22/2013      | ND           | 1.94 | 97.0       | 2.00          | 17.0 |           |
| Xylenes*                        | <0.150 | 0.150           | 01/22/2013      | ND           | 5.92 | 98.7       | 6.00          | 16.8 |           |
| BTEX                            | <0.300 | 0.300           | 01/22/2013      | ND           |      |            |               |      |           |
| gate: 4-Bromofluorobenzene (PIL | 99.6   | % 89.4~12       | 6               |              |      |            |               |      |           |
| de, SM4500CI-B                  | mg/    | kg              | Analyze         | d By: AP     |      |            |               |      |           |
| Analyte                         | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| ride                            | 224    | 16.0            | 01/22/2013      | ND           | 448  | 112        | 400           | 3.64 |           |
| TPH 418.1                       |        | kg -            | Analyze         | d By: CK     |      |            |               |      |           |
| Analyte                         | Result | Reporting Limit | Analyzed        | Method Blank | BS   | % Recovery | True Value QC | RPD  | Qualifier |
| 18.1                            | <100   | 100             | 01/24/2013      | ND ·         | 2100 | 84.0       | 2500          | 3.28 |           |
| Analyte                         |        | Reporting Limit | Analyzed        | Method Blank |      |            |               |      |           |

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



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#### **Notes and Definitions**

| ND  | Analyte NOT DETECTED at or above the reporting limit                            |
|-----|---|
| RPD | Relative Percent Difference   |
| **  | Samples not received at proper temperature of 6°C or below.                     |
| *** | Insufficient time to reach temperature.   |
| -   | Chloride by SM4500CI-B does not require samples be received at or below 6°C     |
|     | Samples reported on an as received basis (wet) unless otherwise noted on report |

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

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101 East Marland, Hobbs, NM 88240

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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 2

| Company Name:   | Safety & Environmental S   | Solutions, Inc.   | BILL TO  |  |           |                         | ANALYSI      | S RÉC         | QUEST                                |               |  |         |
|---|--|---|--|--|-----------|-------------------------|--------------|---------------|--------------------------------------|---------------|--|---------|
| Project Manager:  |  | P.O. #:   |  |  |           |                         |              |               |                                      |               |  |         |
| Address:  | 703 East Clinton   | <sub>Company:</sub> Same  |  |  |           |                         |              |               |                                      |               |  |         |
| City:   | Hobbs State: NM  | Alto:   |  |  |           |                         |              |               |                                      |               |  |         |
| Phone #:  | 575-397-0510 Fax#: 575   | -393-4388   | Address:   |  |           |                         |              |               |                                      |               |  |         |
| Project #: OX   | Y-12-018 Project Owner   | CKY   | City:  |  |           |                         |              |               |                                      |               |  |         |
|   | Egover 34 STUTE  |   | State: Zip:  |  |           | 4                       |              |               |                                      |               |  |         |
| Project Local(on  | All the second s |   | Phone #:   | د<br>رمع ا                                   | 2.        | ~                       |              |               |                                      |               |  |         |
| Sampler Name:   | 5052 Jerry   |   | Fax #:   |  | >         | 3                       |              |               |                                      |               | •  |         |
| FOR LAR USE CALY  |  | MATRIX  | PRESERV. SAMPLIN   | <u>G</u>                                     | ¥-        | 13                      |              |               |                                      |               |  |         |
|   | ·  | C)OMP<br>ER<br>ER   |  | •  |           | 0                       |              |               | ·                                    |               |  |         |
|   |  | OR (C)O<br>ANGRS<br>DWATER<br>WATER   |  | 2.   |           | and a                   |              |               |                                      |               |  |         |
| Lab I.D.  | Sample I.D.  | J OR<br>TAIN<br>UDW   | HER:<br>D/BASE:<br>//COOL<br>HER:  |  |           | Sand Sand               |              |               |                                      |               |  |         |
| 14503   |  | (G)RAB OR (C)O<br>#CONTAINERS<br>&ROUNDWATER<br>WASTEWATER<br>SOL<br>SOL<br>SULGE   | OTHER:<br>ACIDIBASE<br>OTHER:<br>DTHER:  | TIME /                                       | 28        | ۳.<br>ا                 |              |               |                                      |               |  |         |
|   | TT= 1 1: B45   | GIX   | a farment from a firment from a firm | 0920   |           | $\ge$                   |              | 1             |                                      |               |  |         |
| 2   | 77-1 2' 1365   | 6. 1 X  |  | 0940 3                                       |           | $\overline{\mathbf{x}}$ |              |               |                                      |               |  |         |
| 3   | 17-2 1' 1345   | 6,1 <u>X</u>  |  | 1000   |           | $\geq$                  |              |               |                                      |               |  |         |
| 51  | 17-2 2' 1365   | 6, 1 X  |  | 1020 >                                       | $\times$  | <u>S</u>                | :            |               |                                      |               | and a state of the |         |
| 5   | 17-3 1'1345  | 61 X  | X oilib  | 1040   |           | $\geq$                  |              |               |                                      |               |  |         |
| <u></u>   | T-3 2' 845   | 611 X   | X ailie  | 1400   | $\ge$     | $\geq \square$          |              |               |                                      |               |  |         |
|   | TT- 4 1' 1345  | \$ ( X  | X cilu   | 1125   | ·····     | $\geq$                  |              |               |                                      |               |  |         |
|   | T=4 2° 1845  |   | X oilie  | 1150   |           | $\ge$                   |              |               |                                      |               |  |         |
| <u> </u>  | 17-4 3' 1365   | GI X  | X 01/16  | 1300 >                                       | $\times$  | $\geq$                  |              |               |                                      |               |  |         |
| 112^-1  | 77-5 1: 1345<br>I Deliniques, Continuers Baladay and Indiana usechistore restricus for a   |   | I X CIIIG  | 1320   |           | <u> </u>                | Tenns and S  | Ciels Service | hitest will be ch                    | vised of oto: |  | o ihuis |
| analizes. All staints includin<br>services to no event shall Ca | a liness tot segligence ànit any cliner causé whistsusper stiell by<br>rolidét be lineire for incolectet er consequéntet riamagué, includier   | desmed weived unless made is vulnig au<br>5 willioul Amiation, business intomphons, | ad received by Centinal within 36 days after<br>, loss of lise, or loss of profits how red by cr   | completiza of Ree et<br>ant, to tobalitation | oplicacie |                         | 3ð days past | doe at the re | ne of 24% per an<br>re of 24% per an | ana kunise    |  |         |
| Sampler Reliniti  | o out of an julated to the performance of services hereen are by bills here. Date:   | Received By: 11   | n is based upon bity of the atoms stated rus<br>?)   | Phone Resu                                   |           |                         | Add Phone    |               |                                      |               |  | ]       |
|   | 01/18/17   | I Ar I M  | · · · · · · · · · · · · · · · · · · ·  | Fax Result:                                  | D Yês     | <u>    0</u>            | Add'l Fax #  |               |                                      |               |  |         |

Time C'hOU Date: REMARKS: . Repeived By: Relinquished By: Tinus: Samuje Condition Cool Intest Prae Pres I No No Delivered By: (Circle One) CHECKED BY: Temp Unitati ,C Sampler - UPS - Bus - Othei:

+ Cardinal cannot accept verbal changes. Please lax written changes to 575-393-1476. 26

Page 10 of 11

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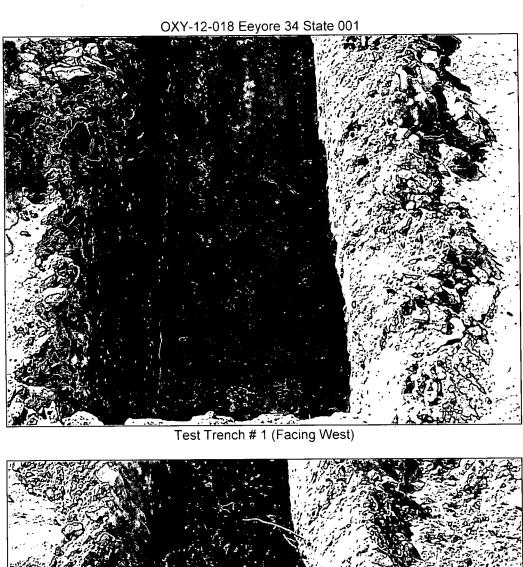
## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 2 of 2

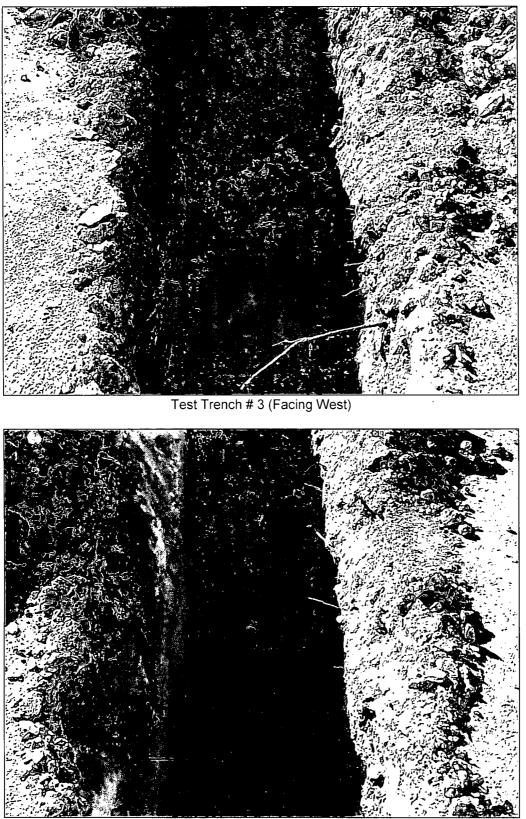
| Company Name: Safety & Environmental Sol  | utions, Inc.   | BILL TO            |   |  |               | ANALYSI      | REQUE | ŜŢ                |      |      |
|---|--|--------------------|---|--|---------------|--------------|-------|-------------------|------|------|
| Project Manager: Bob Allen  |  | ₽0,#:              |   |  |               |              |       |                   |      |      |
| Address: 703 East Clinton   | · · ·  | company: Same      |   |  |               |              |       |                   |      |      |
| City: Hobbs State: NM Zip   | : 88240  | Attn:              |   |  |               |              |       |                   |      | 1    |
|   | 3-4388   | Address:           |   |  | 2             |              |       |                   |      |      |
| Project #: OXY-12-018 Project Owner:  | OXY  | City:              |   |  |               |              |       |                   |      |      |
| Project Name: ECYCLE 34 STUTE #1  | <b>/</b>   | State: Zip:        |   |  |               |              |       |                   |      |      |
| Project Location: Lecoffills. Enily CO.   |  | Phone #:           |   | 20                                       |               |              |       |                   |      |      |
| Sampler Name: Sist. Garage  |  | Fax #:             |   | 1  |               |              |       |                   |      |      |
| Pôh tán use onty       Sample I.D.         Lab I.D.       Sample I.D. $H'3CCI'37$ $T-5'$ 11 $T-5'$ 12 $T-5'$ 14'5 $G_1$ 14'5 $G_2$ 12 $T-5'$ 14'5 $G_2$ 15'5 $G_2$ 15'5'5 $G_2$ 15'5'5'5'5'5'5'5'5'5'5'5'5'5'5'5'5'5'5' | →     →     →     →     ★ </td <td>PRESERV SAMP</td> <td>TIME<br/>1340<br/>1400<br/>1410<br/>1445</td> <td>1 X X X X X X X X X X X X X X X X X X X</td> <td>XXXX CHLW21DF</td> <td></td> <td></td> <td></td> <td></td> <td></td>   | PRESERV SAMP       | TIME<br>1340<br>1400<br>1410<br>1445              | 1 X X X X X X X X X X X X X X X X X X X  | XXXX CHLW21DF |              |       |                   |      |      |
| Refinquished By:     Date:       Delivered By:     Time:       Delivered By:     Circle One)       Sampler - UPS - Bus - Other:     I.C.  | or viked unless made in writing an<br>ut findighen, brishers inderreptions<br>in regardless of whething winch child<br>BCC/VEC BY:<br>ACCIVED B | Illion CHECKED BY: | fier completion of the<br>y clean, is subsidiarie | applicable<br>si<br>ult: <u>Pe</u><br>Ye |               | 30 days past |       | t per annum hom a |      |      |
| † Cardinal cannot accept verbal changes. Please fa:   | v wurren cuquñis (c  | #26                |   |  |               |              |       | г                 | Page | 11 c |

Page 11 of 11

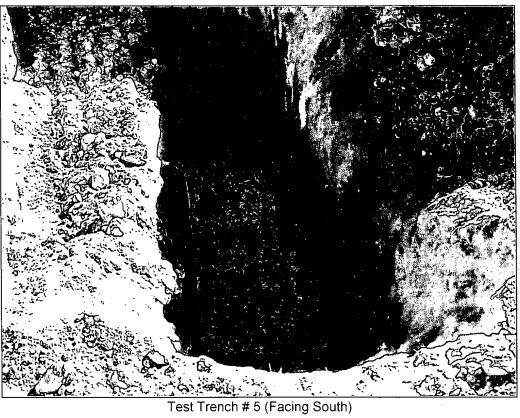
## Appendix B Site Photographs

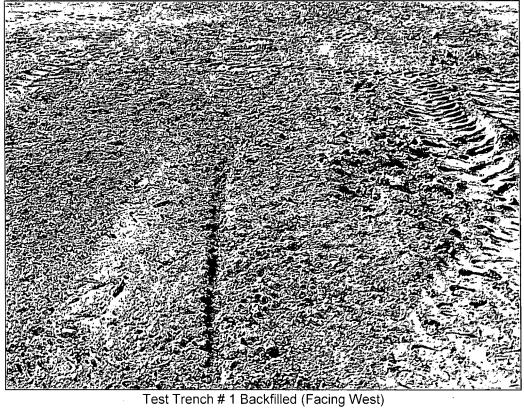


Test Trench # 2 (Facing West)



Test Trench # 4 (Facing West)



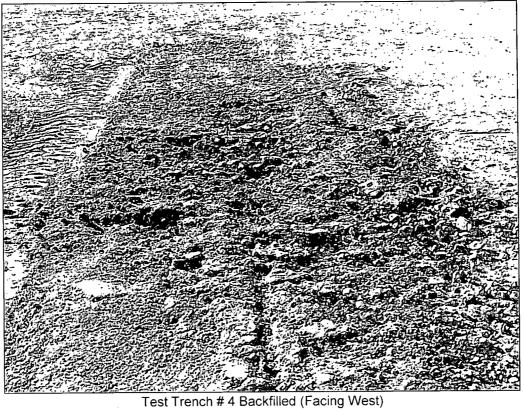




Test Trench # 2 Backfilled (Facing West)



Test Trench # 3 Backfilled (Facing West)





Test Trench # 5 Backfilled (Facing South)

## Appendix C C-141

7.

| District II<br>1000 Rio Brazos Road, Aztec, NM 874 PPR <b>01</b> 2013<br>District IV<br>1000 Rio Brazos Road, Aztec, NM 874 PPR <b>01</b> 2013<br>District IV<br>1000 Rio Brazos Road, Aztec, NM 874 PPR <b>01</b> 2013<br>District IV |   |   |  |   | nerals a<br>Conserv<br>South        | New Mexi<br>and Natura<br>vation Div<br>St. Franc<br>, NM 875 | l Resources<br>rision<br>is Dr.  | Submit  | Form C-141<br>Revised August 8, 2011<br>Submit 1 Copy to appropriate District Office in<br>accordance with 19.15.29 NMAC. |  |   |  |
|--|---|---|--|---|-------------------------------------|---|--|---|---|--|---|--|
|  | 1   | NMOCE                                       |  | ESIA Sa   | تالو و و و و                        |   |  | ction   |   | <u>a di sita sense samente sa</u>                            |   |  |
|  |   |   |  |   |                                     | OPERA1  | <i>'</i> .   |   | l Initi   | al Report  | Final Report  |  |
|  |   | xy USA Inc                                  |  |   | (                                   | Contact Chr   | is Jones   |   |   |  |   |  |
|  |   | nmerce Drive                                | e  |   |                                     |   | No. 575-449-333  |   |   | <u></u>  |   |  |
|  |   | e 34 State #1                               |  |   |                                     | acting Typ  | e: Producing W   |   | ·····   |  |   |  |
| Surface Ow   | ner.  |   |  | Mineral C   | )wner                               |   | - <del> </del>   |   | APINO   | 5. 3001539   | 383   |  |
|  |   |   |  |   |                                     | OF REI  | The second s |   |   |  |   |  |
| Unit Letter  | Section   | Township                                    | Rangé  | Feet from the   | North/                              | South Line,   | Feet from the:   | East/Wes  | t Line  | County   |   |  |
| Λ  | 34  | 17.8  | 28 E   | 738   |                                     | N   | 488  | E   |   | Eddy   |   |  |
|  |   |   | La   | titude  |                                     | _ Longitud  | é  |   |   |  |   |  |
|  |   |   |  | NI À T  | TIDE                                | OF RELI   |  |   |   |  |   |  |
| Type of Rele   | ase: Produc   | cd Water                                    | •  |   | UNE                                 |   | Rélease: 103 BB  | LS V  | 'olume'l  | Recovered:   | 100 BBLS  |  |
| Source of Re   | lease: Frac   | Tank  |  |   |                                     | Date and F  | lour of Occurrenc  | ce: D   |   | Hour of Dis  |   |  |
| Was Immedi   | ate Notice (  | Given?                                      | ·  |   |                                     | 11/11/12<br>If YES, To  | 9:00 pm<br>Whom?   | [.]   | 1/1/1/12  | 9:30 pr  | n   |  |
|  |   |   | Yes  | No 📋 Not R  | equired                             | Mike Brate  | her-NMOCD  |   |   |  |   |  |
| By Whom?   | Chris Iones   |   |  |   |                                     | Jim Amos-<br>Date and F                                       | BLM<br>Iour: 11/13/12 <sup>1</sup>   | 1:00 pm   |   |  |   |  |
| Was a Water  |   | ched?                                       | ····   | •   |                                     |   | olume Impacting t  |   | ourse.  |  |   |  |
|  |   | I   | Yes 🛛  | No.   |                                     |   |  |   |   |  |   |  |
| A valve was  | properly sh   |   | nk and rel   | eased produced w  |                                     |   |  |   |   |  | ority of it cleaned up.<br>If that for proposal.                              |  |
| Describe Art   | a Affected  | and Cléanup                                 | Action Ta  |   |                                     |   |  |   |   |  |   |  |
| regulations a<br>public health<br>should their<br>or the enviro  | Il operators<br>or the envo<br>perations<br>nment. In | s are required ironment. The have failed to | to report a<br>e acceptan<br>adequatel<br>OCD acce | e is true and comp<br>nd/or file certain<br>cc of a C-141 pop<br>y investigate and<br>stance of a C-141 | release n<br>ort by the<br>remediat | otifications a<br>e NMOCD m<br>e contaminat                   | nd perform correct<br>parked as "Final R<br>ion that pose a thr<br>we the operator of                          | ctive actior<br>Report" doe<br>reat to grou<br>responsibi | is for re<br>s not re<br>ind wate<br>lity for   | leases which<br>lieve the ope<br>er, surface w<br>compliance | n may endanger<br>erator of liability<br>ater, human health<br>with any other |  |
|  |   |   |  |   |                                     |   | OIL CON  | ISERVA  | TION  | DIVISI   | <u>NC</u>   |  |
| Signature:   | VA  |   |  | ·····   |                                     |   |  |   |   |  |   |  |
| Printed Nam  | e: Chris Jo   | nes   |  |   |                                     | Approved by   | Environmental S  | Specialist:   |   |  |   |  |
| Title: HES S   |   | /   |  |   |                                     | Approval Da   | te   | .Ex   | piration  | i Date:  |   |  |
|  |   | opher_lones@                                | oxy.com  |   |                                     | Conditions o  |  |   |   |  |   |  |
| Duta   |   |   | <b>DL</b>  | . 295 110.3337  |                                     |   | 42   |   |   | Attache  | استا ۲  |  |
| Date:<br>* Attach Add  | itional She   | ets If Neces                                |  | : 575-449-3337  |                                     |   |  | •••••••••   |   |  |   |  |

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