



August 21, 2014

Oil Conservation Division  
District 2 – Artesia  
811 S. First St.  
Artesia, NM 88210

**Re: Pinto 29 Federal #1  
Sec. 29, T17S-R30E  
Eddy County, NM**

Mr. Mike Bratcher,

COG Operating LLC would like to submit for your consideration the enclosed work plan for the above captioned well. The plan is in response to the C-141 Initial report dated August 17, 2014.

### **Background**

The release was due to a failed 1 inch roll line nipple on the back of the oil tank causing 25 barrels of oil to be released. A vacuum truck was dispatched to recover standing fluid of which 20 barrels were recovered. All fluid was contained within the bermed area. The initial excavation of the impacted area is approximately 4-6" in depth with all impacted material hauled to an approved NMOCD facility.

### **Groundwater**

Based on the Chevron Trend Maps, the release area would be classified at a site ranking of Zero with depth to groundwater at greater than 250'.

### **Soil Assessment and Analytical Results**

Three sample points (S1, S2, & S3) were selected within the berm area. Samples were taken at depths of 1' and 2' for S1 and S2. S3 was sampled to a depth of 3'. The attached Site Diagram depicts the approximate location of each sample point within the bermed area along with an outline of the release and a Sample Summary Table.

Sample Results show TPH and BTEX levels to be non-detect for almost all sample points with the exception of S3-2' which falls below RRAL's per NMOCD Guidelines of Remediation of Leaks, Spills and Releases (1993). A copy of the Analytical Results is attached for your consideration.

## **Work Plan**

COG Operating LLC proposes no further excavation of the area based on the amounts of oil recovered, the initial excavation of 4-6" of impacted material, and TPH and BTEX levels within RRAL's for a site ranking of zero.

If there are no objections or further stipulations, COG Operating LLC would like to begin the backfill process based on approval of this work plan and is also requesting closure of the site. Please feel free to contact me with any questions or concerns at (575) 748-6933.

Sincerely,



Lupe Carrasco  
Environmental Coordinator

Enclosure(s): Site Diagram  
Analytical Results  
C-141 Initial (Copy)  
C-141 Final



# Pinto 29 Federal #1



August 21, 2014

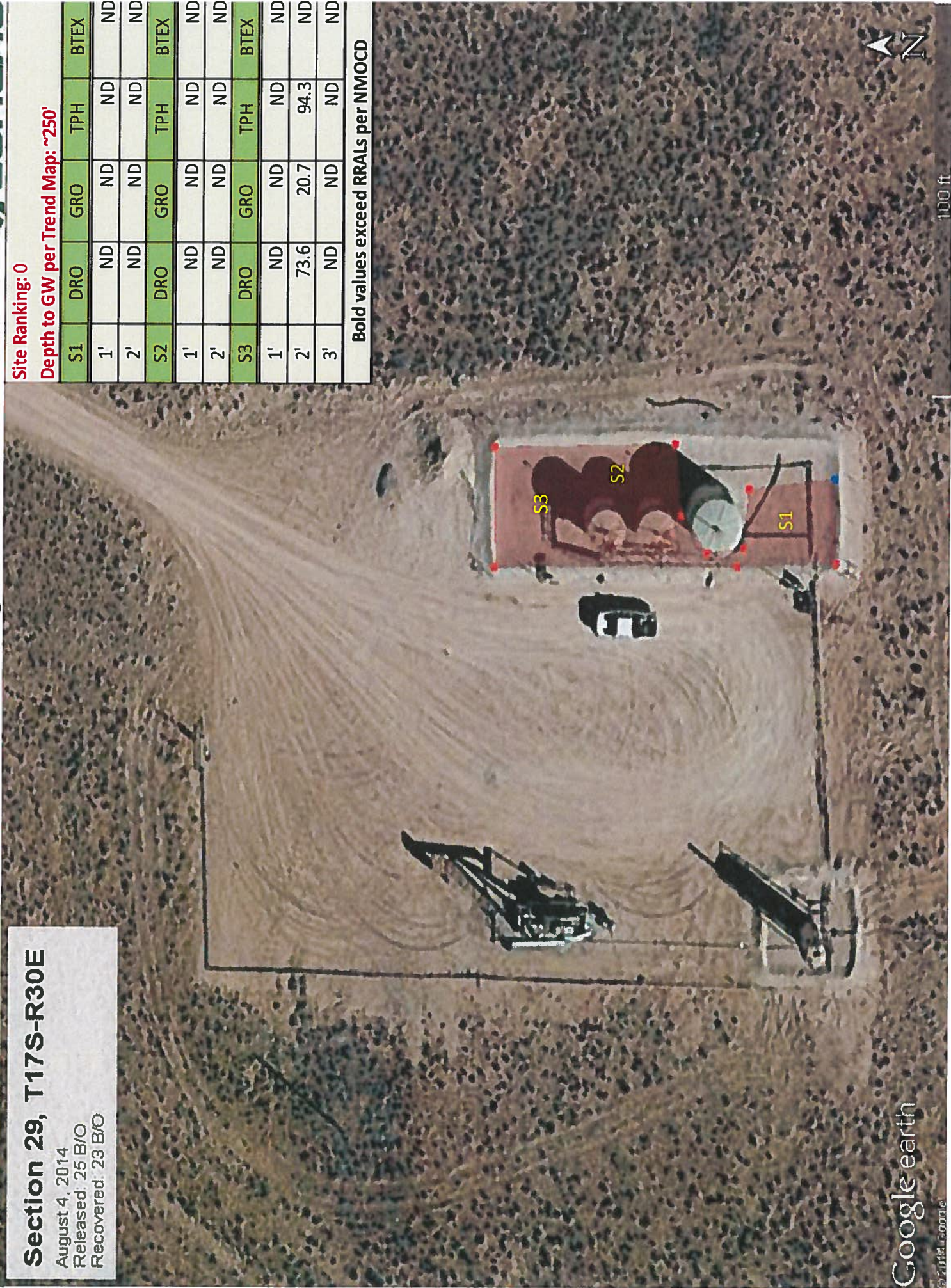
## Section 29, T17S-R30E

August 4, 2014  
Released: 25 B/O  
Recovered: 23 B/O

Site Ranking: 0

Depth to GW per Trend Map: ~250'

| S1                                 | DRO  | GRO  | TPH  | BTEX |
|------------------------------------|------|------|------|------|
| 1'                                 | ND   | ND   | ND   | ND   |
| 2'                                 | ND   | ND   | ND   | ND   |
| S2                                 | DRO  | GRO  | TPH  | BTEX |
| 1'                                 | ND   | ND   | ND   | ND   |
| 2'                                 | ND   | ND   | ND   | ND   |
| S3                                 | DRO  | GRO  | TPH  | BTEX |
| 1'                                 | ND   | ND   | ND   | ND   |
| 2'                                 | 73.6 | 20.7 | 94.3 | ND   |
| 3'                                 | ND   | ND   | ND   | ND   |
| Bold values exceed RRAIs per NMOCD |      |      |      |      |



Google earth

© 2014 Google

100 ft



August 18, 2014

LUPE CARRASCO

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: PINTO 29 FEDERAL #1

Enclosed are the results of analyses for samples received by the laboratory on 08/14/14 11:10.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 [www.tceq.texas.gov/field/qa/lab\\_accred\\_certif.html](http://www.tceq.texas.gov/field/qa/lab_accred_certif.html).

Cardinal Laboratories is accredited 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,



Celey D. Keene

Lab Director/Quality Manager

**Analytical Results For:**

 COG OPERATING  
 LUPE CARRASCO  
 P. O. BOX 1630  
 ARTESIA NM, 88210  
 Fax To: NONE

 Received: 08/14/2014  
 Reported: 08/18/2014  
 Project Name: PINTO 29 FEDERAL #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/08/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S1 - 1' (H402502-01)**

| BTEX 8021B     |        |                 | mg/kg      |              | Analyzed By: ck |            |               |      |           |  |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|--|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |  |
| Benzene*       | <0.050 | 0.050           | 08/16/2014 | ND           | 1.86            | 93.0       | 2.00          | 6.39 |           |  |
| Toluene*       | <0.050 | 0.050           | 08/16/2014 | ND           | 1.70            | 85.1       | 2.00          | 6.29 |           |  |
| Ethylbenzene*  | <0.050 | 0.050           | 08/16/2014 | ND           | 1.88            | 94.0       | 2.00          | 6.48 |           |  |
| Total Xylenes* | <0.150 | 0.150           | 08/16/2014 | ND           | 5.60            | 93.3       | 6.00          | 6.81 |           |  |
| Total BTEX     | <0.300 | 0.300           | 08/16/2014 | ND           |                 |            |               |      |           |  |

Surrogate: 4-Bromofluorobenzene (PID) 103 % 89.4-126

| TPH 8015M    |        |                 | mg/kg      |              |     |            |               |      |           | Analyzed By: CK |  |
|--------------|--------|-----------------|------------|--------------|-----|------------|---------------|------|-----------|-----------------|--|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank | BS  | % Recovery | True Value QC | RPD  | Qualifier |                 |  |
| GRO C6-C10   | <10.0  | 10.0            | 08/15/2014 | ND           | 172 | 86.1       | 200           | 2.06 |           |                 |  |
| DRO >C10-C28 | <10.0  | 10.0            | 08/15/2014 | ND           | 180 | 90.0       | 200           | 4.42 |           |                 |  |

Surrogate: 1-Chlorooctane 101 % 65.2-140

Surrogate: 1-Chlorooctadecane 104 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 COG OPERATING  
 LUPE CARRASCO  
 P. O. BOX 1630  
 ARTESIA NM, 88210  
 Fax To: NONE

 Received: 08/14/2014  
 Reported: 08/18/2014  
 Project Name: PINTO 29 FEDERAL #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/08/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S1 - 2' (H402502-02)**

| BTEX 8021B     |        |                 | mg/kg      |              | Analyzed By: ck |            |               |      |           |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 08/16/2014 | ND           | 1.86            | 93.0       | 2.00          | 6.39 |           |
| Toluene*       | <0.050 | 0.050           | 08/16/2014 | ND           | 1.70            | 85.1       | 2.00          | 6.29 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 08/16/2014 | ND           | 1.88            | 94.0       | 2.00          | 6.48 |           |
| Total Xylenes* | <0.150 | 0.150           | 08/16/2014 | ND           | 5.60            | 93.3       | 6.00          | 6.81 |           |
| Total BTEX     | <0.300 | 0.300           | 08/16/2014 | ND           |                 |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIL) 102 % 89.4-126

| TPH 8015M    |        |                 | mg/kg      |              | Analyzed By: CK |            |               |      |           |
|--------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 08/15/2014 | ND           | 172             | 86.1       | 200           | 2.06 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 08/15/2014 | ND           | 180             | 90.0       | 200           | 4.42 |           |

Surrogate: 1-Chlorooctane 100 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 COG OPERATING  
 LUPE CARRASCO  
 P. O. BOX 1630  
 ARTESIA NM, 88210  
 Fax To: NONE

 Received: 08/14/2014  
 Reported: 08/18/2014  
 Project Name: PINTO 29 FEDERAL #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/08/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S2 - 1' (H402502-03)**

| BTEX 8021B     |        |                 | mg/kg      |              | Analyzed By: ck |            |               |      |           |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.200 | 0.200           | 08/18/2014 | ND           | 1.86            | 93.0       | 2.00          | 6.39 |           |
| Toluene*       | 1.31   | 0.200           | 08/18/2014 | ND           | 1.70            | 85.1       | 2.00          | 6.29 |           |
| Ethylbenzene*  | 3.01   | 0.200           | 08/18/2014 | ND           | 1.88            | 94.0       | 2.00          | 6.48 |           |
| Total Xylenes* | 3.10   | 0.600           | 08/18/2014 | ND           | 5.60            | 93.3       | 6.00          | 6.81 |           |
| Total BTEX     | 7.42   | 1.20            | 08/18/2014 | ND           |                 |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 89.4-126

| TPH 8015M    |        |                 | mg/kg      |              | Analyzed By: CK |            |               |      |           |
|--------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | 123    | 50.0            | 08/15/2014 | ND           | 172             | 86.1       | 200           | 2.06 |           |
| DRO >C10-C28 | 272    | 50.0            | 08/15/2014 | ND           | 180             | 90.0       | 200           | 4.42 |           |

Surrogate: 1-Chlorooctane 105 % 65.2-140

Surrogate: 1-Chlorooctadecane 124 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 COG OPERATING  
 LUPE CARRASCO  
 P. O. BOX 1630  
 ARTESIA NM, 88210  
 Fax To: NONE

 Received: 08/14/2014  
 Reported: 08/18/2014  
 Project Name: PINTO 29 FEDERAL #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/08/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S2 - 2' (H402502-04)**

| BTEX 8021B     |        |                 | mg/kg      |              | Analyzed By: ck |            |               |      |           |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 08/16/2014 | ND           | 1.86            | 93.0       | 2.00          | 6.39 |           |
| Toluene*       | <0.050 | 0.050           | 08/16/2014 | ND           | 1.70            | 85.1       | 2.00          | 6.29 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 08/16/2014 | ND           | 1.88            | 94.0       | 2.00          | 6.48 |           |
| Total Xylenes* | <0.150 | 0.150           | 08/16/2014 | ND           | 5.60            | 93.3       | 6.00          | 6.81 |           |
| Total BTEX     | <0.300 | 0.300           | 08/16/2014 | ND           |                 |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 89.4-126

| TPH 8015M    |        |                 | mg/kg      |              | Analyzed By: CK |            |               |      |           |
|--------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 08/15/2014 | ND           | 172             | 86.1       | 200           | 2.06 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 08/15/2014 | ND           | 180             | 90.0       | 200           | 4.42 |           |

Surrogate: 1-Chlorooctane 96.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 110 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager



**Analytical Results For:**

 COG OPERATING  
 LUPE CARRASCO  
 P. O. BOX 1630  
 ARTESIA NM, 88210  
 Fax To: NONE

 Received: 08/14/2014  
 Reported: 08/18/2014  
 Project Name: PINTO 29 FEDERAL #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/08/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S3 - 1' (H402502-05)**

| BTEX 8021B     |        |                 | mg/kg      |              | Analyzed By: ck |            |               |      |           |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 08/16/2014 | ND           | 1.86            | 93.0       | 2.00          | 6.39 |           |
| Toluene*       | <0.050 | 0.050           | 08/16/2014 | ND           | 1.70            | 85.1       | 2.00          | 6.29 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 08/16/2014 | ND           | 1.88            | 94.0       | 2.00          | 6.48 |           |
| Total Xylenes* | <0.150 | 0.150           | 08/16/2014 | ND           | 5.60            | 93.3       | 6.00          | 6.81 |           |
| Total BTEX     | <0.300 | 0.300           | 08/16/2014 | ND           |                 |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIL) 103 % 89.4-126

| TPH 8015M    |        |                 | mg/kg      |              | Analyzed By: CK |            |               |      |           |
|--------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 08/15/2014 | ND           | 172             | 86.1       | 200           | 2.06 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 08/15/2014 | ND           | 180             | 90.0       | 200           | 4.42 |           |

Surrogate: 1-Chlorooctane 99.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 108 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

COG OPERATING  
LUPE CARRASCO  
P. O. BOX 1630  
ARTESIA NM, 88210  
Fax To: NONE

Received: 08/14/2014  
Reported: 08/18/2014  
Project Name: PINTO 29 FEDERAL #1  
Project Number: NONE GIVEN  
Project Location: NOT GIVEN

Sampling Date: 08/08/2014  
Sampling Type: Soil  
Sampling Condition: Cool & Intact  
Sample Received By: Jodi Henson

**Sample ID: S3 - 2' (H402502-06)**

| BTEX 8021B     |              |                 | mg/kg      |              | Analyzed By: ck |            |               |      |           |
|----------------|--------------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte        | Result       | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050       | 0.050           | 08/16/2014 | ND           | 1.86            | 93.0       | 2.00          | 6.39 |           |
| Toluene*       | <0.050       | 0.050           | 08/16/2014 | ND           | 1.70            | 85.1       | 2.00          | 6.29 |           |
| Ethylbenzene*  | <b>0.060</b> | 0.050           | 08/16/2014 | ND           | 1.88            | 94.0       | 2.00          | 6.48 |           |
| Total Xylenes* | <0.150       | 0.150           | 08/16/2014 | ND           | 5.60            | 93.3       | 6.00          | 6.81 |           |
| Total BTEX     | <0.300       | 0.300           | 08/16/2014 | ND           |                 |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIC) 105 % 89.4-126

| TPH 8015M    |             |                 | mg/kg      |              | Analyzed By: CK |            |               |      |           |
|--------------|-------------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte      | Result      | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <b>20.7</b> | 10.0            | 08/15/2014 | ND           | 172             | 86.1       | 200           | 2.06 |           |
| DRO >C10-C28 | <b>73.6</b> | 10.0            | 08/15/2014 | ND           | 180             | 90.0       | 200           | 4.42 |           |

Surrogate: 1-Chlorooctane 99.1 % 65.2-140

Surrogate: 1-Chlorooctadecane 112 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 COG OPERATING  
 LUPE CARRASCO  
 P. O. BOX 1630  
 ARTESIA NM, 88210  
 Fax To: NONE

 Received: 08/14/2014  
 Reported: 08/18/2014  
 Project Name: PINTO 29 FEDERAL #1  
 Project Number: NONE GIVEN  
 Project Location: NOT GIVEN

 Sampling Date: 08/08/2014  
 Sampling Type: Soil  
 Sampling Condition: Cool & Intact  
 Sample Received By: Jodi Henson

**Sample ID: S3 - 3' (H402502-07)**

| BTEX 8021B     |        |                 | mg/kg      |              | Analyzed By: ck |            |               |      |           |
|----------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte        | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| Benzene*       | <0.050 | 0.050           | 08/16/2014 | ND           | 1.86            | 93.0       | 2.00          | 6.39 |           |
| Toluene*       | <0.050 | 0.050           | 08/16/2014 | ND           | 1.70            | 85.1       | 2.00          | 6.29 |           |
| Ethylbenzene*  | <0.050 | 0.050           | 08/16/2014 | ND           | 1.88            | 94.0       | 2.00          | 6.48 |           |
| Total Xylenes* | <0.150 | 0.150           | 08/16/2014 | ND           | 5.60            | 93.3       | 6.00          | 6.81 |           |
| Total BTEX     | <0.300 | 0.300           | 08/16/2014 | ND           |                 |            |               |      |           |

Surrogate: 4-Bromofluorobenzene (PIL) 105 % 89.4-126

| TPH 8015M    |        |                 | mg/kg      |              | Analyzed By: CK |            |               |      |           |
|--------------|--------|-----------------|------------|--------------|-----------------|------------|---------------|------|-----------|
| Analyte      | Result | Reporting Limit | Analyzed   | Method Blank | BS              | % Recovery | True Value QC | RPD  | Qualifier |
| GRO C6-C10   | <10.0  | 10.0            | 08/15/2014 | ND           | 172             | 86.1       | 200           | 2.06 |           |
| DRO >C10-C28 | <10.0  | 10.0            | 08/15/2014 | ND           | 180             | 90.0       | 200           | 4.42 |           |

Surrogate: 1-Chlorooctane 90.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 109 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

**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 SM4500Cl-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 |

---

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



---

Celey D. Keene, Lab Director/Quality Manager





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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised October 10, 2003

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

**Release Notification and Corrective Action**

**OPERATOR**

☒ Initial Report ☐ Final Report

|                        |   |                        |                               |
|------------------------|---|------------------------|-------------------------------|
| Name of Company        | COG OPERATING LLC                           | Contact                | Robert McNeill                |
| Address                | 600 West Illinois Avenue, Midland, TX 79701 | Telephone No.          | 432-230-0077                  |
| Facility Name:         | Pinto 29 Federal #1                         | Facility Type:         | Battery                       |
| Surface Owner: Federal |   | Mineral Owner: Federal | Lease No. (API#) 30-015-31956 |

**LOCATION OF RELEASE**

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| B           | 29      | 17S      | 30E   | 330           | North            | 1980          | East           | Eddy   |

Latitude N32 48.700 Longitude W103 59.517

**NATURE OF RELEASE**

|  |   |  |
|--|---|--|
| Type of Release<br>Oil   | Volume of Release<br>25 bbls                    | Volume Recovered<br>23 bbls                    |
| Source of Release<br>Nipple on oil tank  | Date and Hour of Occurrence<br>8/4/2014 1:00 PM | Date and Hour of Discovery<br>8/4/2014 1:00 pm |
| Was Immediate Notice Given?<br><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required | If YES, To Whom?                                |  |
| By Whom?   | Date and Hour                                   |  |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | If YES, Volume Impacting the Watercourse.       |  |

If a Watercourse was Impacted, Describe Fully.\*


Describe Cause of Problem and Remedial Action Taken.\*

1 inch roll line nipple on oil tank failed and cause the release of 25 bbls oil. Vacuum trucks were dispatched to remove standing fluid and any fluid in the tank to make necessary repairs.

Describe Area Affected and Cleanup Action Taken.\*

The impacted area was 20' x 10' and contained within the bermed area. Concho will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.

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

|  |                         |                                  |                                   |
|--|-------------------------|----------------------------------|-----------------------------------|
| Signature:  |                         | <b>OIL CONSERVATION DIVISION</b> |                                   |
| Printed Name: Amanda Trujillo  |                         | Approved by District Supervisor: |                                   |
| Title: Senior Environmental Coordinator  | Approval Date:          | Expiration Date:                 |                                   |
| E-mail Address: atrujillo@concho.com   | Conditions of Approval: |                                  | Attached <input type="checkbox"/> |
| Date August 17, 2014 Phone: 575-746-2010   |                         |                                  |                                   |

\* Attach Additional Sheets If Necessary

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

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised October 10, 2003

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

**Release Notification and Corrective Action**

**OPERATOR**

☐ Initial Report ☒ Final Report

|                 |   |                |                |
|-----------------|---|----------------|----------------|
| Name of Company | COG OPERATING LLC                           | Contact        | Robert McNeill |
| Address         | 600 West Illinois Avenue, Midland, TX 79701 | Telephone No.  | 432-230-0077   |
| Facility Name:  | Pinto 29 Federal #1                         | Facility Type: | Battery        |

|                        |                        |                               |
|------------------------|------------------------|-------------------------------|
| Surface Owner: Federal | Mineral Owner: Federal | Lease No. (API#) 30-015-31956 |
|------------------------|------------------------|-------------------------------|

**LOCATION OF RELEASE**

|                  |               |                 |              |                      |                           |                       |                        |                |
|------------------|---------------|-----------------|--------------|----------------------|---------------------------|-----------------------|------------------------|----------------|
| Unit Letter<br>B | Section<br>29 | Township<br>17S | Range<br>30E | Feet from the<br>330 | North/South Line<br>North | Feet from the<br>1980 | East/West Line<br>East | County<br>Eddy |
|------------------|---------------|-----------------|--------------|----------------------|---------------------------|-----------------------|------------------------|----------------|

Latitude N32 48.700 Longitude W103 59.517

**NATURE OF RELEASE**

|  |   |  |
|--|---|--|
| Type of Release<br>Oil   | Volume of Release<br>25 bbls                    | Volume Recovered<br>23 bbls                    |
| Source of Release<br>Nipple on oil tank  | Date and Hour of Occurrence<br>8/4/2014 1:00 PM | Date and Hour of Discovery<br>8/4/2014 1:00 pm |
| Was Immediate Notice Given?<br><input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required | If YES, To Whom?                                |  |
| By Whom?   | Date and Hour                                   |  |
| Was a Watercourse Reached?<br><input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  | If YES, Volume Impacting the Watercourse.       |  |

If a Watercourse was Impacted, Describe Fully.\*


Describe Cause of Problem and Remedial Action Taken.\*

1 inch roll line nipple on oil tank failed and cause the release of 25 bbls oil. Vacuum trucks were dispatched to remove standing fluid and any fluid in the tank to make necessary repairs.

Describe Area Affected and Cleanup Action Taken.\*

The impacted area was 20' x 10' and contained within the bermed area. Concho will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.

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

|  |                         |                                  |                                   |
|--|-------------------------|----------------------------------|-----------------------------------|
| Signature:  |                         | <b>OIL CONSERVATION DIVISION</b> |                                   |
| Printed Name: Lupe Carrasco  |                         | Approved by District Supervisor: |                                   |
| Title: Environmental Coordinator   | Approval Date:          | Expiration Date:                 |                                   |
| E-mail Address: gcarrasco@concho.com   | Conditions of Approval: |                                  | Attached <input type="checkbox"/> |
| Date August 21, 2014   | Phone: 575-746-2010     |                                  |                                   |

\* Attach Additional Sheets If Necessary