

SITE INFORMATION

Report Type: Work Plan (1 RP #2540)

General Site Information:

| | | | |
|------------------------------------|---|--|--------------|
| Site: | GC Federal #10 | | RECEIVED |
| Company: | COG Operating LLC | | |
| Section, Township and Range | Unit J - Section 19 - T17S - R32E | | |
| Lease Number: | API-30-025-38993 | | NOV 01 2010 |
| County: | Lea County | | |
| GPS: | 32.81721° N | | 103.80233° W |
| Surface Owner: | Federal | | |
| Mineral Owner: | | | |
| Directions: | From intersection of Hwy 82 and CR-126, 4.2 mi west on Hwy 82, left CR-224 2.0 mi, right 0.2 mi, right 0.1 mi to location | | |
| | | | |
| | | | |

Release Data:

| | |
|---------------------------------|-------------------------------|
| Date Released: | 5/19/2010 |
| Type Release: | Produced Water |
| Source of Contamination: | 1/4" Nipple on flowline broke |
| Fluid Released: | 70 bbls |
| Fluids Recovered: | 50 bbls |

Official Communication:

| | | |
|----------------------|-----------------------------|----------------------------|
| Name: | Pat Ellis | Ike Tavaréz |
| Company: | COG Operating, LLC | Tetra Tech |
| Address: | 550 W. Texas Ave. Ste. 1300 | 1910 N. Big Spring |
| P.O. Box | | |
| City: | Midland Texas, 79701 | Midland, Texas |
| Phone number: | (432) 686-3023 | (432) 682-4559 |
| Fax: | (432) 684-7137 | |
| Email: | pellis@conchoresources.com | ike.tavarez@tetrattech.com |

Ranking Criteria

| Depth to Groundwater: | Ranking Score | Site Data |
|---|---------------|----------------------|
| <50 ft | 20 | |
| 50-99 ft | 10 | |
| >100 ft. | 0 | >200' to groundwater |
| | | |
| WellHead Protection: | Ranking Score | Site Data |
| Water Source <1,000 ft., Private <200 ft. | 20 | |
| Water Source >1,000 ft., Private >200 ft. | 0 | 0 |
| | | |
| Surface Body of Water: | Ranking Score | Site Data |
| <200 ft. | 20 | |
| 200 ft - 1,000 ft. | 10 | |
| >1,000 ft. | 0 | 0 |
| | | |
| Total Ranking Score: | 0 | |

| Acceptable Soil RRAL (mg/kg) | | |
|------------------------------|------------|-------|
| Benzene | Total BTEX | TPH |
| 10 | 50 | 5,000 |

Approved
Stephany Labring
 Environmental Engineer
 NMECO-Holly
 1105110



TETRA TECH

October 20, 2010

Mr. Geoffrey Leking
Environmental Engineer Specialist
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

**Re: Work Plan for the COG Operating LLC., GC Federal #10, Unit J,
Section 19, Township 17 South, Range 32 East, Lea County,
New Mexico. (1 RP #2540)**

Mr. Leking:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC. (COG) to assess a spill from the GC Federal #10, Unit J, Section 19, Township 17 South, Range 32 East, Lea County, New Mexico (Site). The spill site coordinates are N 32.81721°, W 103.80233°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on May 19, 2010, and released approximately seventy (70) barrels of produced water due to a broken ¼" nipple on a flow line. To alleviate the problem, COG personnel repaired the nipple and flow line. Fifty (50) barrels of standing fluids were recovered. The majority of the spill was contained on the well pad. Two smaller areas of the pasture were impacted, one south of the source measuring approximately 40' x 15' and the second west of the source measuring approximately 20' x 60'. The initial C-141 form is enclosed in Appendix C.

Groundwater

The United States Geological Survey (USGS) Well Reports did not list any wells in Section 19. To establish depth to groundwater, Tetra Tech previously installed a temporary monitor well (TMW) in Section 30 on July 14, 2009, to a depth of 180' bgs and did not encounter groundwater. The groundwater map is shown in Appendix A.

Tetra Tech

1910 North Big Spring, Midland, TX 79705

Tel 432.682.4659

Fax 432.682.3746

www.tetrattech.com



According to the NMOCD groundwater map, the average depth to groundwater in this area is greater than 200' below surface. The Water Well Data is shown in Appendix A.

Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 5,000 mg/kg.

Soil Assessment and Analytical Results

On May 25, 2010, Tetra Tech personnel inspected and sampled the spill area. A total of six (6) auger holes (AH-1 through AH-6) were installed using a stainless steel hand auger to assess the impacted soils. Select samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix B. The results of the sampling are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, AH-1 showed a TPH concentration of 8,430 mg/kg and a total BTEX of 113.25 mg/kg. AH-5 only exceeded the RRAL for total BTEX at 0-1' of 55.9 mg/kg. The deeper samples at 1-1.5' declined below the RRAL for both auger holes.

Auger hole (AH-3) did not show a chloride impact to the area. Auger holes (AH-2, AH-4 and AH-6) showed a shallow chloride impact at 0-1', which decline at 1.0' below surface to <200 mg/kg, <200 mg/kg and 309 mg/kg, respectively. The deepest chloride impact was encountered at AH-5, with a chloride concentration declining to 241 mg/kg at 7.0' below surface.



TETRA TECH

Work Plan

In order to remove the hydrocarbon and chloride impacted soils, COG proposes to excavate the spill's footprint and haul the impacted soil to proper disposal. Based on the possibility of buried lines, limited area and safety concerns, the proposed depths will be 1.0' below surface in the area of AH-2, AH-4, and AH-6, 3.0' at AH-1, and 7.0' at AH-5. The proposed excavation depths are highlighted in Table 1 and shown on Figure 4.

Since the impacted area may be in the native sand dunes, the proposed excavation depths may not be reached due to wall cave ins and safety concerns for equipment operators as well as other onsite personnel. As such, Tetra Tech will excavate the soils to the maximum extent practicable.

If you have any questions or comments concerning the assessment or the proposed remediation activities, please call me at (432) 682-4559.

Respectfully submitted,
TETRA TECH

Ike Tavaréz
Project Manager

cc: Pat Ellis – COG
cc: Terry Gregston – BLM

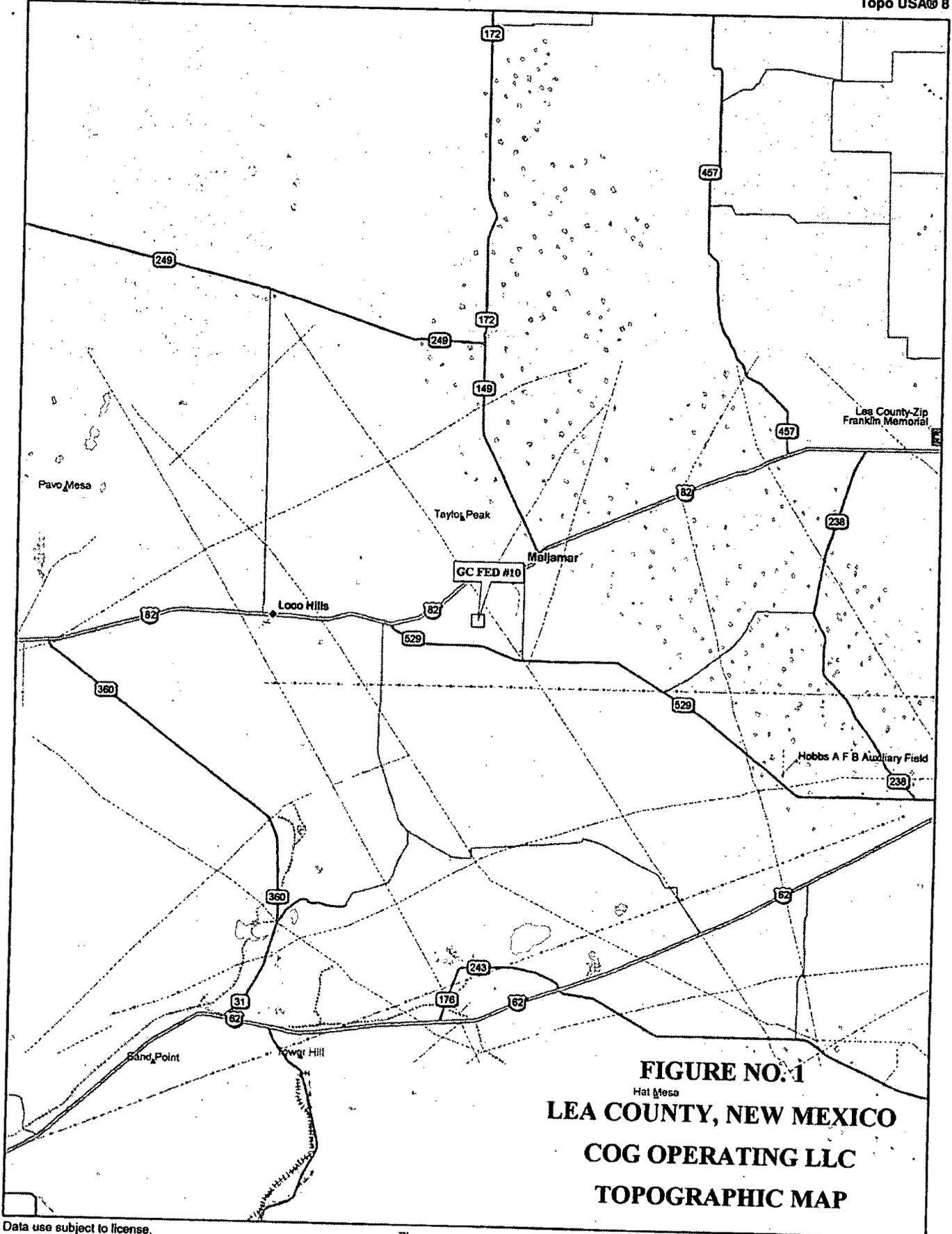
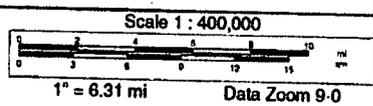
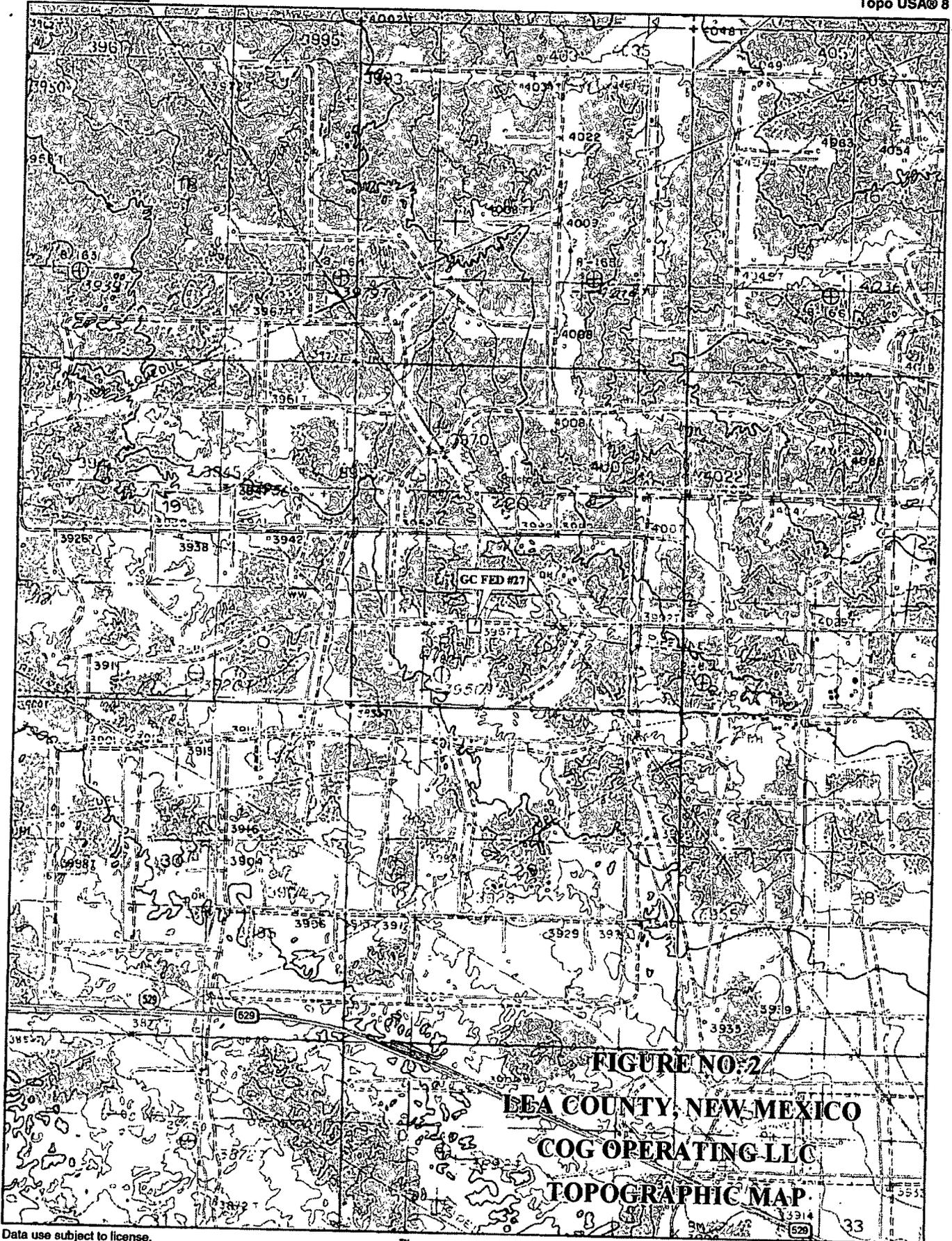


FIGURE NO. 1
 Hat Mesa
LEA COUNTY, NEW MEXICO
COG OPERATING LLC
TOPOGRAPHIC MAP

Data use subject to license.
 © DeLorme. Topo USA® 8.
 www.delorme.com

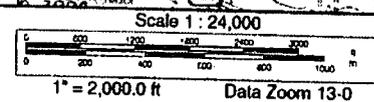


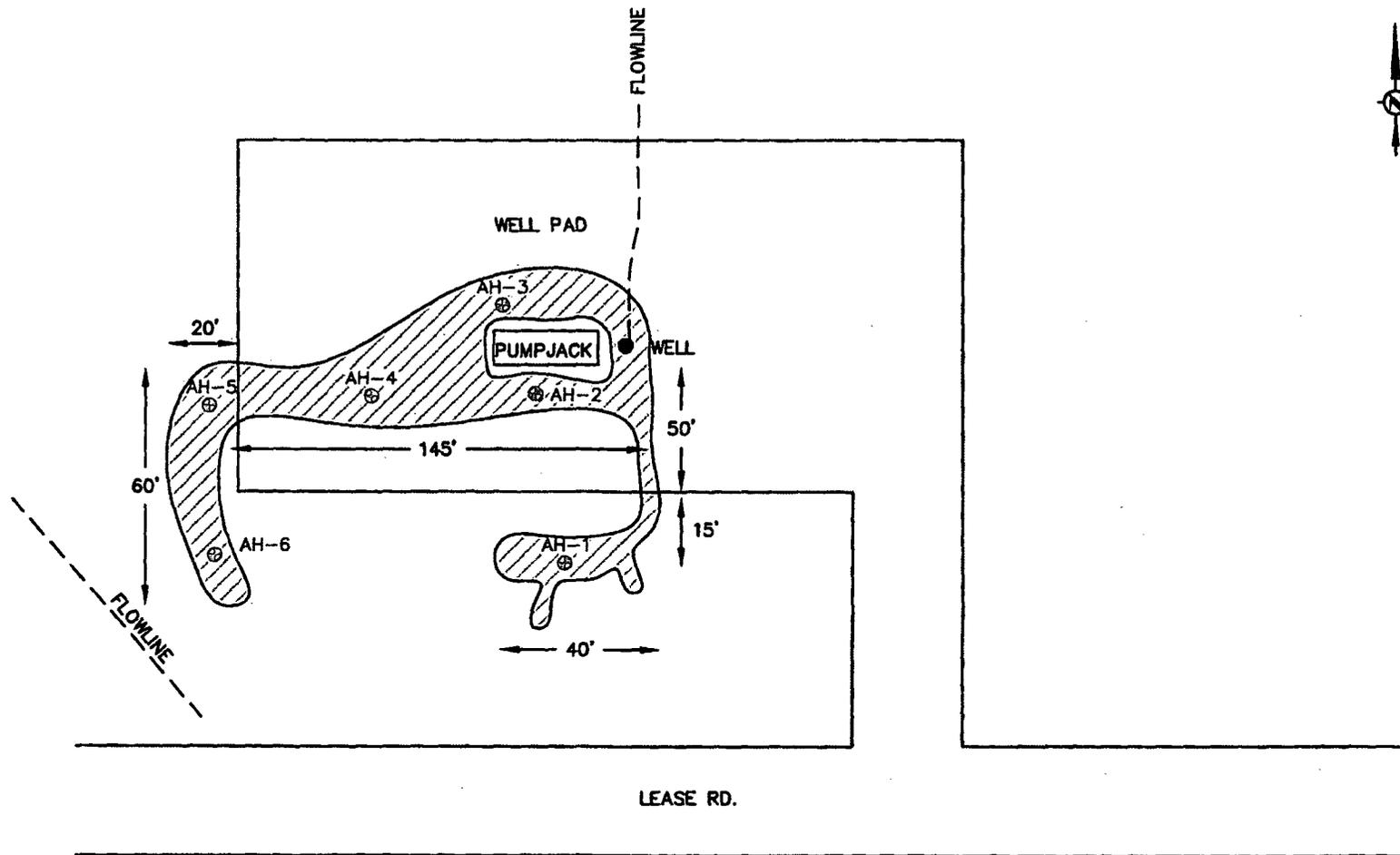


Data use subject to license.

© DeLorme. Topo USA® 8.

www.delorme.com



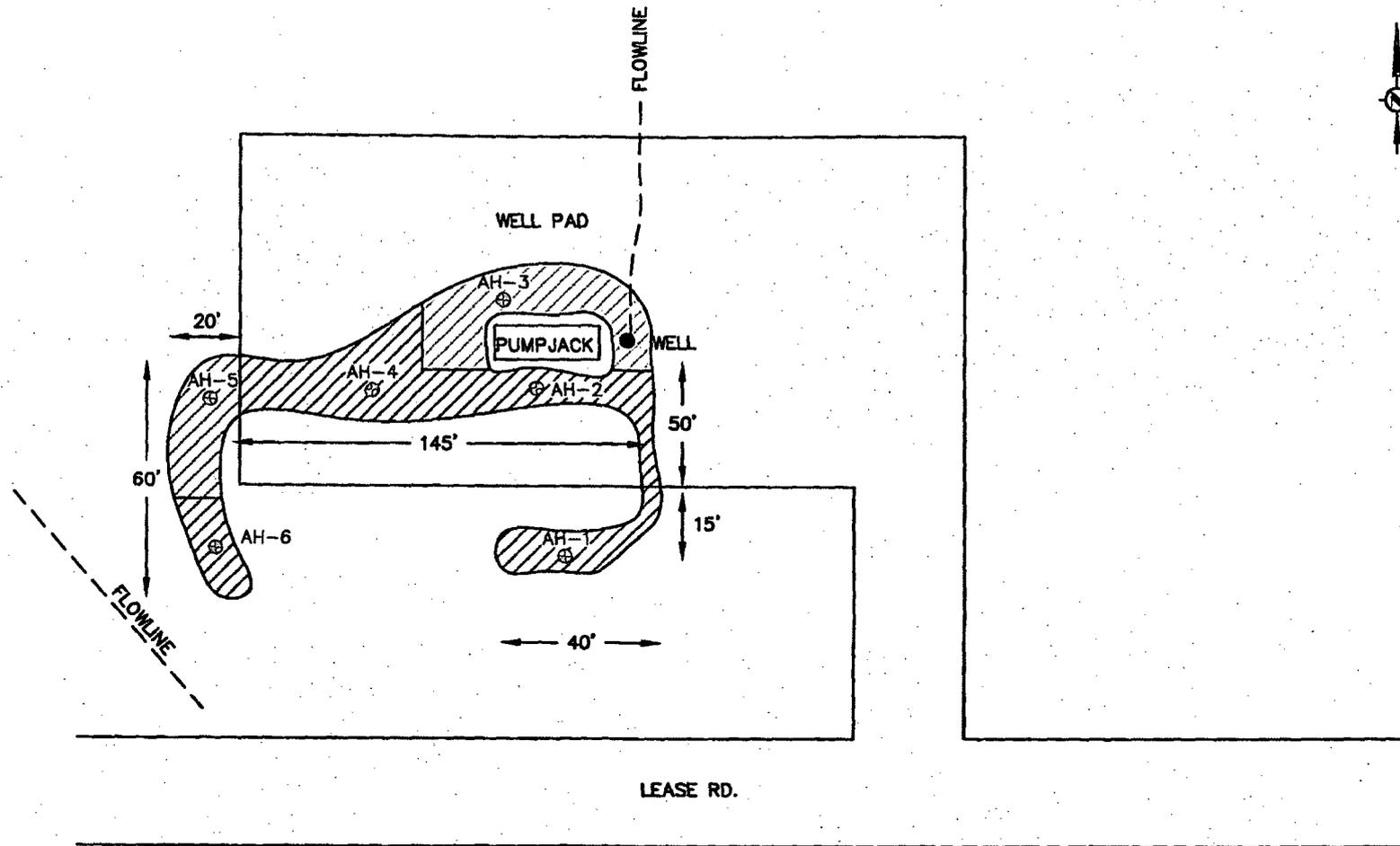


[Hatched Box] SPILL AREA
 [Circle with Cross] AUGER HOLE SAMPLE LOCATIONS

NOT TO SCALE

DATE:
 6/25/10
 DWN. BY:
 JJ
 FILE:
 MAPPING/COG OPERATING
 CO FED #10

| |
|---|
| FIGURE NO. 3 |
| LEA COUNTY, NEW MEXICO |
| COG OPERATING LLC |
| GC FED #10 |
| TETRA TECH, INC. MIDLAND, TEXAS |



- SPILL AREA
- EXCAVATION DEPTHS (1.0' DEEP)
- EXCAVATION DEPTHS (3.0' DEEP)
- EXCAVATION DEPTHS (7.0' DEEP)
- AUGER HOLE SAMPLE LOCATIONS

NOT TO SCALE

DATE:
6/25/10
DWG. BY:
JJ
FILE:
MIDLAND/COG/COG FED #10

| |
|---|
| FIGURE NO. 4 |
| LEA COUNTY, NEW MEXICO |
| COG OPERATING LLC |
| GC FED #10 |
| TETRA TECH, INC. MIDLAND, TEXAS |

Table 1
COG Operating LLC.
GC Federal #10
LEA COUNTY, NEW MEXICO

| Sample ID | Sample Date | Sample Depth (ft) | Depth (BEB) | Soil Status | | TPH (mg/kg) | | | Benzene (mg/kg) | Toluene (mg/kg) | Ethylbenzene (mg/kg) | Xylene (mg/kg) | BTEX Total | Chloride (mg/kg) |
|-----------|-------------|-------------------|-------------|-------------|---------|-------------|-------|-------|-----------------|-----------------|----------------------|----------------|------------|------------------|
| | | | | In-Situ | Removed | DRO | GRO | Total | | | | | | |
| AH-1 | 5/25/2010 | 0-1' | | X | | 5,620 | 2,810 | 8,430 | 1.45 | 22 | 40.1 | 49.7 | 113.25 | 4,470 |
| | | 1-1.5' | | X | | <50.0 | <1.00 | <50.0 | <0.0200 | <0.0200 | <0.0200 | 0.0573 | 0.05 | 9,540 |
| | | 2-2.5' | | X | | - | - | - | - | - | - | - | - | 9,880 |
| | | 3-3.5' | | X | | - | - | - | - | - | - | - | - | <200 |
| | | 4-4.5' | | X | | - | - | - | - | - | - | - | - | <200 |
| | | 5-5.5' | | X | | - | - | - | - | - | - | - | - | <200 |
| AH-2 | | 0-1' | | X | | 110 | 30.9 | 140.9 | <0.0200 | <0.0200 | 0.0626 | 0.126 | 0.18 | 1,050 |
| | | 1-1.5' | | X | | - | - | - | - | - | - | - | - | <200 |
| | | 2-2.5' | | X | | - | - | - | - | - | - | - | - | <200 |
| | | 3-3.5' | | X | | - | - | - | - | - | - | - | - | <200 |
| AH-3 | | 0-1' | | X | | <50.0 | <1.00 | <50.0 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.02 | <200 |
| | | 1-1.5' | | X | | <50.0 | <1.00 | <50.0 | - | - | - | - | - | <200 |
| | | 2-2.5' | | X | | <50.0 | <1.00 | <50.0 | - | - | - | - | - | <200 |
| | | 3-3.5' | | X | | <50.0 | <1.00 | <50.0 | - | - | - | - | - | 515 |
| | | 4-4.5' | | X | | <50.0 | <1.00 | <50.0 | - | - | - | - | - | <200 |
| | | 5-5.5' | | X | | <50.0 | <1.00 | <50.0 | - | - | - | - | - | 442 |
| AH-4 | | 0-1' | | X | | <50.0 | 5.59 | 5.59 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.02 | 3,880 |
| | | 1-1.5' | | X | | <50.0 | <1.00 | <50.0 | - | - | - | - | - | <200 |
| | | 2-2.5' | | X | | <50.0 | <1.00 | <50.0 | - | - | - | - | - | <200 |
| | | 3-3.5' | | X | | <50.0 | <1.00 | <50.0 | - | - | - | - | - | <200 |

Table 1
COG Operating LLC.
GC Federal #10
LEA COUNTY, NEW MEXICO

| Sample ID | Sample Date | Sample Depth (ft) | Depth (BEB) | Soil Status | | TPH (mg/kg) | | | Benzene (mg/kg) | Toluene (mg/kg) | Ethlybenzene (mg/kg) | Xylene (mg/kg) | BTEX Total | Chloride (mg/kg) |
|-----------|-------------|-------------------|-------------|-------------|---------|-------------|-------|-------|-----------------|-----------------|----------------------|----------------|------------|------------------|
| | | | | In-Situ | Removed | DRO | GRO | Total | | | | | | |
| AH-5 | | 0-1' | | X | | <50.0 | <1.00 | <50.0 | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <0.02 | 285 |
| | | 1-1.5' | | X | | - | - | - | - | - | - | - | - | 1,030 |
| | | 2-2.5' | | X | | - | - | - | - | - | - | - | - | 10,000 |
| | | 3-3.5' | | X | | - | - | - | - | - | - | - | - | 12,100 |
| | | 4-4.5' | | X | | - | - | - | - | - | - | - | - | 14,500 |
| | | 5-5.5' | | X | | - | - | - | - | - | - | - | - | 10,400 |
| | | 6-6.5' | | X | | - | - | - | - | - | - | - | - | 10,600 |
| | | 7-7.5' | | X | | - | - | - | - | - | - | - | - | 241 |
| | | 8-8.5' | | X | | - | - | - | - | - | - | - | - | 334 |
| | 9-9.5' | | X | | - | - | - | - | - | - | - | - | <200 | |
| AH-6 | | 0-1' | | X | | 3,130 | 1,580 | 4,710 | <2.00 | 14.9 | 16 | 25 | 55.9 | 2,490 |
| | | 1-1.5' | | X | | - | - | - | <0.0200 | <0.0200 | 0.0442 | 0.0936 | 0.13 | 309 |
| | | 2-2.5' | | X | | - | - | - | - | - | - | - | - | <200 |
| | | 3-3.5' | | X | | - | - | - | - | - | - | - | - | <200 |
| | | 4-4.5' | | X | | - | - | - | - | - | - | - | - | <200 |

BEB Below Excavation Bottom
 (-) Not Analyzed
 Proposed excavation depths

Water Well Data
Average Depth to Groundwater (ft)
COG - GC Federal 10
Lea County, New Mexico

16 South 31 East

| | | | | | |
|-----|----|----|----|----|----|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |
| 290 | | | | | |

16 South 32 East

| | | | | | | | | |
|-----|----|----|----|----|----|-----|---|-----|
| 6 | 5 | 4 | 3 | 65 | 2 | 265 | 1 | 265 |
| 7 | 8 | 9 | 10 | 11 | 12 | | | |
| 18 | 17 | 16 | 15 | 14 | 13 | | | |
| 19 | 20 | 21 | 22 | 23 | 24 | | | |
| 220 | | | | | | | | |
| 30 | 29 | 28 | 27 | 26 | 25 | | | |
| 31 | 32 | 33 | 34 | 35 | 36 | | | |
| | | | | | | | | 260 |

16 South 33 East

| | | | | | | | | | |
|-----|-----|-----|----|-----|----|-----|----|----|-----|
| 6 | 5 | 180 | 4 | 150 | 3 | 130 | 2 | 1 | 142 |
| 7 | 8 | | 9 | | 10 | | 11 | 12 | |
| 18 | 17 | 16 | 15 | 14 | 13 | | | | |
| 19 | 20 | 21 | 22 | 23 | 24 | | | | |
| 30 | 29 | 28 | 27 | 26 | 25 | | | | |
| 191 | | | | | | | | | |
| 31 | 32 | 33 | 34 | 35 | 36 | | | | |
| 190 | 168 | | | | | | | | |

17 South 31 East

| | | | | | |
|----|----|----|-----|----|----|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |
| | | | 271 | | |

17 South 32 East

| | | | | | | |
|----|-----|----|----|----|----|-----|
| 6 | 5 | 4 | 3 | 2 | 1 | 225 |
| 7 | 8 | 9 | 10 | 11 | 12 | |
| 18 | 17 | 16 | 15 | 14 | 13 | |
| 19 | 20 | 21 | 22 | 23 | 24 | |
| 30 | 180 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 | |

17 South 33 East

| | | | | | | | | |
|-----|-----|----|-----|-----|----|-----|----|-----|
| 6 | 5 | 4 | 3 | 155 | 2 | 158 | 1 | 150 |
| 7 | 167 | 8 | 173 | 9 | 10 | 11 | 12 | |
| 18 | 17 | 16 | 15 | 14 | 13 | | | |
| 188 | 180 | | | | | | | |
| 19 | 20 | 21 | 22 | 23 | 24 | | | |
| 30 | 29 | 28 | 27 | 26 | 25 | | | |
| 31 | 32 | 33 | 34 | 35 | 36 | | | |
| | | | | 155 | | | | |

18 South 31 East

| | | | | | |
|----|----|----|----|-----|----|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |
| | | | | 261 | |

18 South 32 East

| | | | | | | |
|----|-----|----|----|-----|----|----|
| 6 | 5 | 4 | 65 | 3 | 2 | 1 |
| 7 | 460 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 | |
| 19 | 20 | 21 | 22 | 23 | 24 | |
| 30 | 29 | 28 | 27 | 26 | 25 | |
| 31 | 32 | 33 | 34 | 35 | 36 | |
| | | | | 117 | | |

18 South 33 East

| | | | | | | | |
|----|----|-----|----|-----|----|----|-----|
| 6 | 5 | 4 | 3 | 2 | 1 | | |
| 7 | 8 | 100 | 9 | 10 | 11 | 12 | 143 |
| 18 | 17 | 16 | 15 | 14 | 13 | 60 | |
| 19 | 20 | 21 | 22 | 23 | 24 | | |
| 30 | 29 | 28 | 27 | 26 | 25 | | |
| 31 | 32 | 33 | 34 | 35 | 36 | | |
| | | | | 177 | | | |

-  New Mexico State Engineers Well Reports
-  USGS Well Reports
-  Geology and Groundwater Conditions in Southern Eddy, County, NM
-  NMOCD - Groundwater Data
-  Field water level
-  New Mexico Water and Infrastructure Data System
-  Tetra Tech Temporary well (TD 180' - Dry Well)

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
30 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 | Pat Ellis |
| Address | 550 W. Texas, Suite 100, Midland, TX 79701 | Telephone No. | 432-230-0077 |
| Facility Name | GC FEDERAL #10 | Facility Type | Flowline |
| Surface Owner | Federal | Mineral Owner | Lease No. API# 30-025-38993 |

LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|-------------|---------|----------|-------|---------------|------------------|---------------|----------------|--------|
| J | 19 | 17S | 32E | 1615 | South | 1525 | East | Lea |

Latitude 32 49.027 Longitude 103 48.133

NATURE OF RELEASE

| | | | | | |
|-----------------------------|---|---|--|----------------------------|----------------------|
| Type of Release | Produced Fluids | Volume of Release | 70bbls | Volume Recovered | 50bbls |
| Source of Release | Flowline | Date and Hour of Occurrence | 05/19/2010 | Date and Hour of Discovery | 05/19/2010 4:00 p.m. |
| Was Immediate Notice Given? | <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required | If YES, To Whom? | Larry Johnson - OCD Geoffrey Leking - OCD | | |
| By Whom? | Josh Russo | Date and Hour | 05/20/2010 | 5:23 P.M. | |
| Was a Watercourse Reached? | <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No | If YES, Volume Impacting the Watercourse. | | | |

If a Watercourse was Impacted, Describe Fully.*

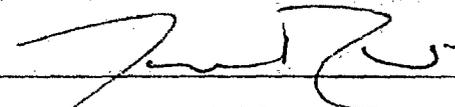
Describe Cause of Problem and Remedial Action Taken.*

A 1/4" nipple broke on the flowline. The nipple / flowline has been repaired and put back into service.

Describe Area Affected and Cleanup Action Taken.*

70bbls of produced fluids was initially released and we were able to recover 50bbls of produced fluids by a vacuum truck. The release flowed of the south end of the pad into the pasture covering an area of 15'x15'. It also flowed into the pasture southwest off the pad 10'x20'. The estimated chloride content of any water that is involved in this release would be 113,000 mg/l. The estimated oil gravity of any oil involved in this release would be 35.6. Tetra Tech will sample the spill site area to delineate any possible contamination from the release and we will present a remediation work plan to the BLM / 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: |  | OIL CONSERVATION DIVISION | |
| Printed Name: | Josh Russo | Approved by District Supervisor: | |
| Title: | HSE Coordinator | Approval Date: | Expiration Date: |
| E-mail Address: | jrusso@conchoresources.com | Conditions of Approval: | Attached <input type="checkbox"/> |
| Date: | 05/21/2010 | Phone: | 432-212-2399 |

* Attach Additional Sheets If Necessary

Summary Report

Ike Tavaréz
Tetra Tech
1910 N. Big Spring Street
Midland, TX 79705

Report Date: June 25, 2010

Work Order: 10052815



Project Location: Lea County, NM
Project Name: COG/GC Federal #10
Project Number: 114-6400527

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 233149 | AH-1 0-1' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233150 | AH-1 1-1.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233151 | AH-1 2-2.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233152 | AH-1 3-3.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233153 | AH-1 4-4.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233154 | AH-1 5-5.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233155 | AH-2 0-1' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233156 | AH-2 1-1.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233157 | AH-2 2-2.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233158 | AH-2 3-3.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233159 | AH-3 0-1' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233160 | AH-3 1-1.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233161 | AH-3 2-2.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233162 | AH-3 3-3.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233163 | AH-3 4-4.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233164 | AH-3 5-5.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233165 | AH-4 0-1' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233166 | AH-4 1-1.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233167 | AH-4 2-2.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233168 | AH-4 3-3.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233169 | AH-5 0-1' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233170 | AH-5 1-1.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233171 | AH-5 2-2.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233172 | AH-5 3-3.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233173 | AH-5 4-4.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233174 | AH-5 5-5.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233175 | AH-5 6-6.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233176 | AH-5 7-7.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233177 | AH-5 8-8.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233178 | AH-5 9-9.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |

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

This is only a summary. Please, refer to the complete report package for quality control data.

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 233179 | AH-6 0-1' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233180 | AH-6 1-1.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233181 | AH-6 2-2.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233182 | AH-6 3-3.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |
| 233183 | AH-6 4-4.5' | soil | 2010-05-25 | 00:00 | 2010-05-27 |

| Sample - Field Code | BTEX | | | | TPH DRO - NEW DRO (mg/Kg) | TPH GRO GRO (mg/Kg) |
|----------------------|--------------------|--------------------|-------------------------|-------------------|---------------------------------|---------------------------|
| | Benzene (mg/Kg) | Toluene (mg/Kg) | Ethylbenzene (mg/Kg) | Xylene (mg/Kg) | | |
| 233149 - AH-1 0-1' | 1.45 | 22.0 | 40.1 | 49.7 | 5620 | 2810 |
| 233150 - AH-1 1-1.5' | <0.0200 | <0.0200 | <0.0200 | 0.0573 | <50.0 | <1.00 |
| 233155 - AH-2 0-1' | <0.0200 | <0.0200 | 0.0626 | 0.126 | 110 | 30.9 |
| 233159 - AH-3 0-1' | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <50.0 | <1.00 |
| 233160 - AH-3 1-1.5' | | | | | <50.0 | <1.00 |
| 233161 - AH-3 2-2.5' | | | | | <50.0 | <1.00 |
| 233162 - AH-3 3-3.5' | | | | | <50.0 | <1.00 |
| 233163 - AH-3 4-4.5' | | | | | <50.0 | <1.00 |
| 233164 - AH-3 5-5.5' | | | | | <50.0 | <1.00 |
| 233165 - AH-4 0-1' | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <50.0 | 5.59 |
| 233166 - AH-4 1-1.5' | | | | | <50.0 | <1.00 |
| 233167 - AH-4 2-2.5' | | | | | <50.0 | <1.00 |
| 233168 - AH-4 3-3.5' | | | | | <50.0 | <1.00 |
| 233169 - AH-5 0-1' | <0.0200 | <0.0200 | <0.0200 | <0.0200 | <50.0 | <1.00 |
| 233179 - AH-6 0-1' | <2.00 | 14.9 | 16.0 | 25.0 | 3130 | 1580 |
| 233180 - AH-6 1-1.5' | <0.0200 | <0.0200 | 0.0442 | 0.0936 | | |

Sample: 233149 - AH-1 0-1'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 4470 | mg/Kg | 4.00 |

Sample: 233150 - AH-1 1-1.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 9540 | mg/Kg | 4.00 |

Sample: 233151 - AH-1 2-2.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 9880 | mg/Kg | 4.00 |

Sample: 233152 - AH-1 3-3.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | <200 | mg/Kg | 4.00 |

Sample: 233153 - AH-1 4-4.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | <200 | mg/Kg | 4.00 |

Sample: 233154 - AH-1 5-5.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | <200 | mg/Kg | 4.00 |

Sample: 233155 - AH-2 0-1'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 1050 | mg/Kg | 4.00 |

Sample: 233156 - AH-2 1-1.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | <200 | mg/Kg | 4.00 |

Sample: 233157 - AH-2 2-2.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | <200 | mg/Kg | 4.00 |

Sample: 233158 - AH-2 3-3.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | <200 | mg/Kg | 4.00 |

Sample: 233159 - AH-3 0-1'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | <200 | mg/Kg | 4.00 |

Sample: 233160 - AH-3 1-1.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | <200 | mg/Kg | 4.00 |

Sample: 233161 - AH-3 2-2.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | <200 | mg/Kg | 4.00 |

Sample: 233162 - AH-3 3-3.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 515 | mg/Kg | 4.00 |

Sample: 233163 - AH-3 4-4.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | <200 | mg/Kg | 4.00 |

Sample: 233164 - AH-3 5-5.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 442 | mg/Kg | 4.00 |

Sample: 233165 - AH-4 0-1'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 3880 | mg/Kg | 4.00 |

Sample: 233166 - AH-4 1-1.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | <200 | mg/Kg | 4.00 |

Sample: 233167 - AH-4 2-2.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | <200 | mg/Kg | 4.00 |

Sample: 233168 - AH-4 3-3.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | <200 | mg/Kg | 4.00 |

Sample: 233169 - AH-5 0-1'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 285 | mg/Kg | 4.00 |

Sample: 233170 - AH-5 1-1.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 1030 | mg/Kg | 4.00 |

Sample: 233171 - AH-5 2-2.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 10000 | mg/Kg | 4.00 |

Sample: 233172 - AH-5 3-3.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 12100 | mg/Kg | 4.00 |

Sample: 233173 - AH-5 4-4.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 14500 | mg/Kg | 4.00 |

Sample: 233174 - AH-5 5-5.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 10400 | mg/Kg | 4.00 |

Sample: 233175 - AH-5 6-6.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 10600 | mg/Kg | 4.00 |

Sample: 233176 - AH-5 7-7.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 241 | mg/Kg | 4.00 |

Sample: 233177 - AH-5 8-8.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 334 | mg/Kg | 4.00 |

Sample: 233178 - AH-5 9-9.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | <200 | mg/Kg | 4.00 |

Sample: 233179 - AH-6 0-1'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 2490 | mg/Kg | 4.00 |

Sample: 233180 - AH-6 1-1.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | 309 | mg/Kg | 4.00 |

Sample: 233181 - AH-6 2-2.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | <200 | mg/Kg | 4.00 |

Sample: 233182 - AH-6 3-3.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | <200 | mg/Kg | 4.00 |

Sample: 233183 - AH-6 4-4.5'

| Param | Flag | Result | Units | RL |
|----------|------|--------|-------|------|
| Chloride | | <200 | mg/Kg | 4.00 |