# SITE INFORMATION

## Report Type: Work Plan

| General Site Information: | | | | | | |
|---|---|---|---|---|---|---|
| **Site:** | Brigham H South Tank Battery | | | | | |
| **Company:** | COG Operating LLC | | | | | |
| **Section, Township and Range** | Unit C | Sec. 28 | T-17-S | R-30-E | | |
| **Lease Number:** | API-30-015-50473 | | | | | |
| **County:** | Eddy County | | | | | |
| **GPS:** | 32.81208° N | | | 103.97825° W | | |
| **Surface Owner:** | Federal | | | | | |
| **Mineral Owner:** | | | | | | |
| **Directions:** | In Loco Hills at intersection of Hagerman Cutoff and Hwy 82, travel south on Hagerman Cutoff 0.3 miles, turn left east 0.5 miles to location on left. | | | | | |

| Release Data: | |
|---|---|
| *Date Released:* | 5/16/2012 |
| *Type Release:* | Oil |
| *Source of Contamination:* | Circulating pump seal failure |
| *Fluid Released:* | 13 bbls |
| *Fluids Recovered:* | 10 bbls |

| Official Communication: | | | |
|---|---|---|---|
| *Name:* | Pat Ellis | | Ike Tavarez |
| *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@tetratech.com |

| Ranking Criteria | | |
|---|---|---|
| ***Depth to Groundwater:*** | ***Ranking Score*** | ***Site Data*** |
| *<50 ft* | 20 | |
| *50-99 ft* | 10 | |
| *>100 ft.* | ***0*** | ***0*** |
| ***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 |

TETRA TECH



August 6, 2012

Mr. Mike Bratcher
Environmental Engineer Specialist
Oil Conservation Division, District 2
1301 West Grand Avenue
Artesia, New Mexico 88210

**Re: Assessment and Work Plan for the COG Operating LLC., Brigham H South Tank Battery Located in Unit C, Section 28, Township 17 South, Range 30 East, Eddy County, New Mexico.**

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC. (COG) to assess a spill from the Brigham H South Tank Battery Located in Unit C, Section 28, Township 17 South, Range 30 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.81208°, W 103.97825°. The site location is shown on Figures 1 and 2.

## Background

According to the State of New Mexico Oil Conservation Division (NMOCD) Form C-141 Initial Report, the leak was discovered on May 16, 2012, and released approximately thirteen (13) barrels (bbls) of oil due to a seal failure on a circulating pump. COG personnel replaced the defective seal. Approximately ten (10) bbls of free fluids were recovered from the spill area.

The spill initiated from the circulating pump on the west side of the tank battery. The spill remained inside the facility berms impacting along the north, west and south edge of the facility. The spill measures approximately 4' x 95' (south edge), 3' x 55' (north edge), and source area 25'x15'. The footprint of the spill is shown on Figure 3. The initial Form C-141 is enclosed in Appendix A.

Tetra Tech
1910 North Big Spring, Midland, TX 79705
Tel 432.682.4559 Fax 432.682.3946 www.tetratech.com

## Groundwater

No wells were located in Section 28. According to the NMOCD groundwater map, depth to groundwater in this area is approximately 275' below surface. The groundwater data is shown in Appendix B.

## Regulatory

A risk-based evaluation was performed for the Site in accordance with the 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

Prior to sampling, COG removed approximately 3"- 6" from the spill area. On July 3, 2012, 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. Selected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B and chloride by EPA method 300.0. The sampling results are summarized in Table 1. The auger hole locations are shown on Figure 3. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C.

Referring to Table 1, auger holes (AH-1, AH-3, and AH-4) were below the RRAL for TPH and BTEX. The remaining auger holes (AH-2, AH-5 and AH-6) at 0-1' exceeded the RRAL for TPH and BTEX. Auger hole (AH-5) was vertically defined, declining below the RRAL of 4,823 mg/kg. AH-2 and AH-6 were not vertically defined. In addition, the spill area did not show a significant chloride impact to the soils. The area of AH-4 showed an elevated chloride of 4,320 mg/kg at 0-1', which was not vertically defined.

TETRA TECH

**Work Plan**

COG proposes to remove impacted material as highlighted (green) in Table 1 and shown in Figure4. The areas of auger holes (AH-2, AH-4, AH-5, and AH-6) will be excavated to a depth of approximately 1.0 to 2.0' below surface. Once excavated to the appropriate depths, confirmation samples will be collected in the areas of AH-2 and AH-6 for TPH and BTEX. In addition, a backhoe trench will be installed in the area of AH-4 to define the chloride impact in the area and field screened for chlorides. Based on the results, the impacted soil will be excavated to the appropriate depths. The excavated soil will be transported to proper disposal. The excavated area will be backfilled with clean material.

Due to the location of the spill, the proposed excavation depths and areas may not be achieved due to a shallow dense caliche layer, oil and gas equipment, electrical, structures or lines which may not be feasible or practicable to be removed due to safely concerns. As such, Tetra Tech will excavate the soils to the maximum extent practicable. If the impacted soil is not accessible, the soil will be deferred until the abandonment of the facility. If deeper impact is encountered and excavation cannot be achieved, the impacted soil will be capped with either 40 mil liner or clay material at 3.0' to 4.0' below surface and backfilled with soil to grade.

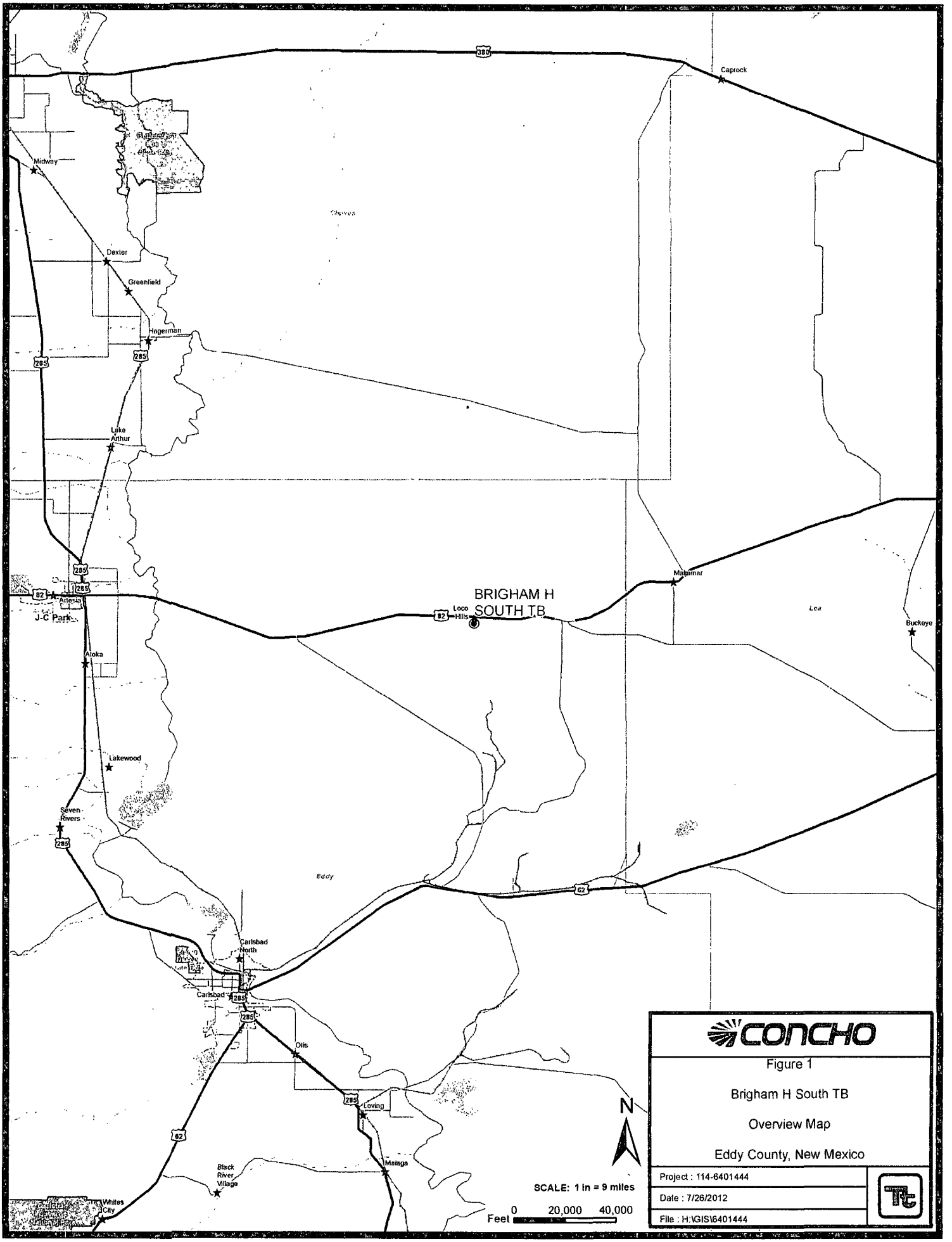
Upon completion, a final report will be submitted to the NMOCD. If you have any questions or require any additional information regarding this work plan, please call me at (432) 682-4559.

Respectfully submitted,
TETRA TECH

Ike Tavarez
Senior Project Manager

cc: Pat Ellis – COG
Terry Gregston - BLM

# Figures




CONCHO

Figure 1

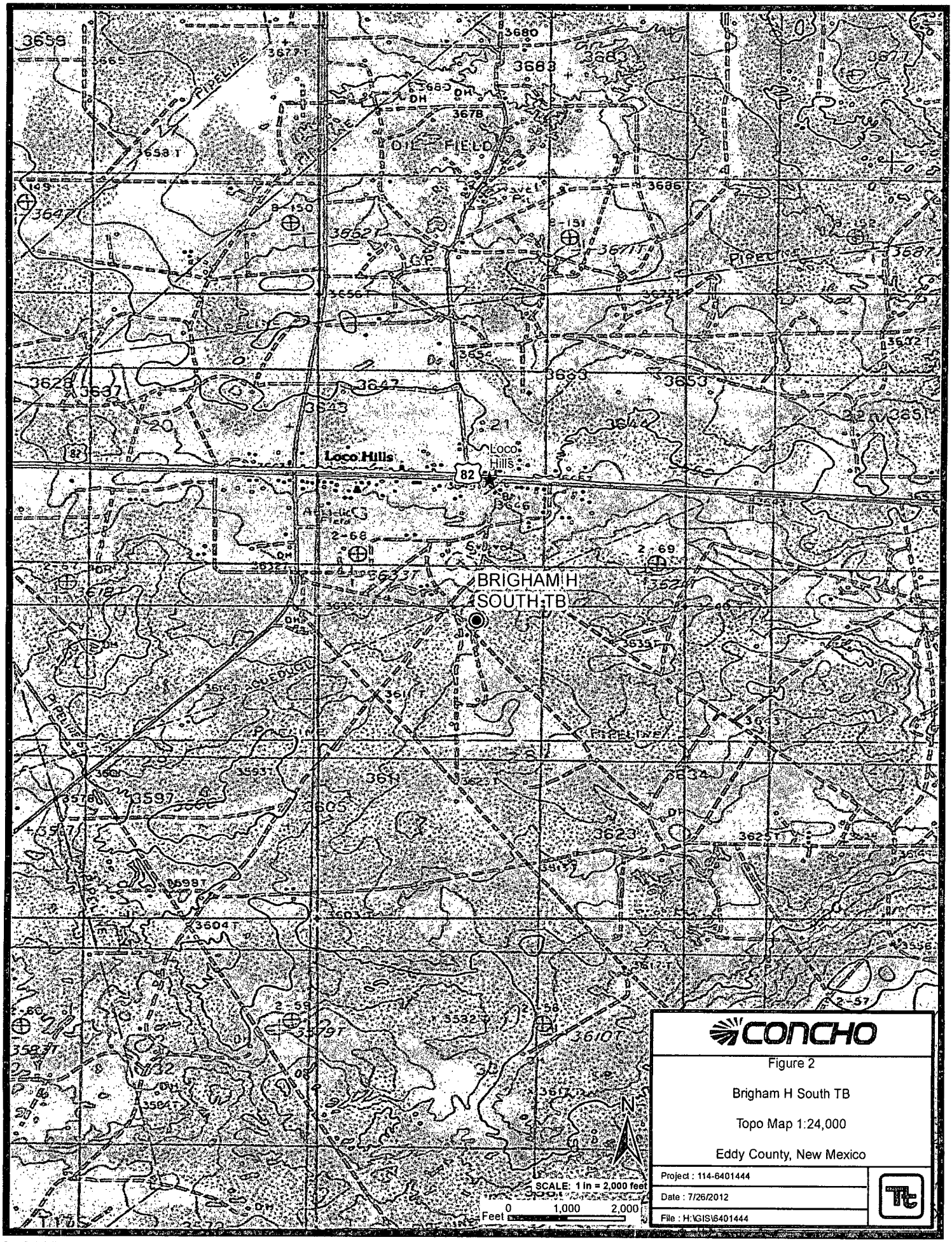
Brigham H South TB

Overview Map

Eddy County, New Mexico

| | |
|---|---|
| Project : 114-6401444 | |
| Date : 7/26/2012 | |
| File : H:\GIS\6401444 | |

Drawn By: Isabel Marmolejo




CONCHO

Figure 2

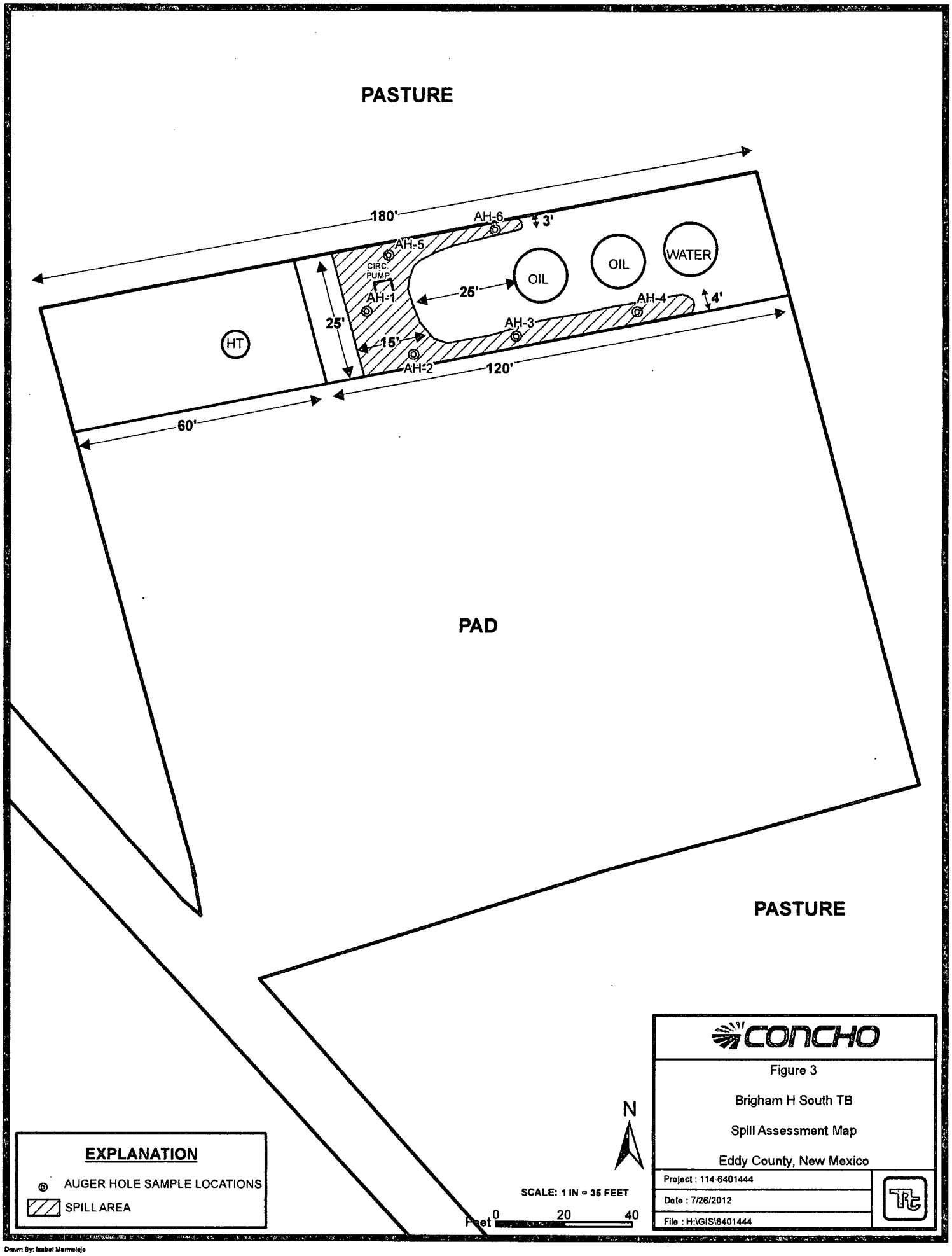
Brigham H South TB

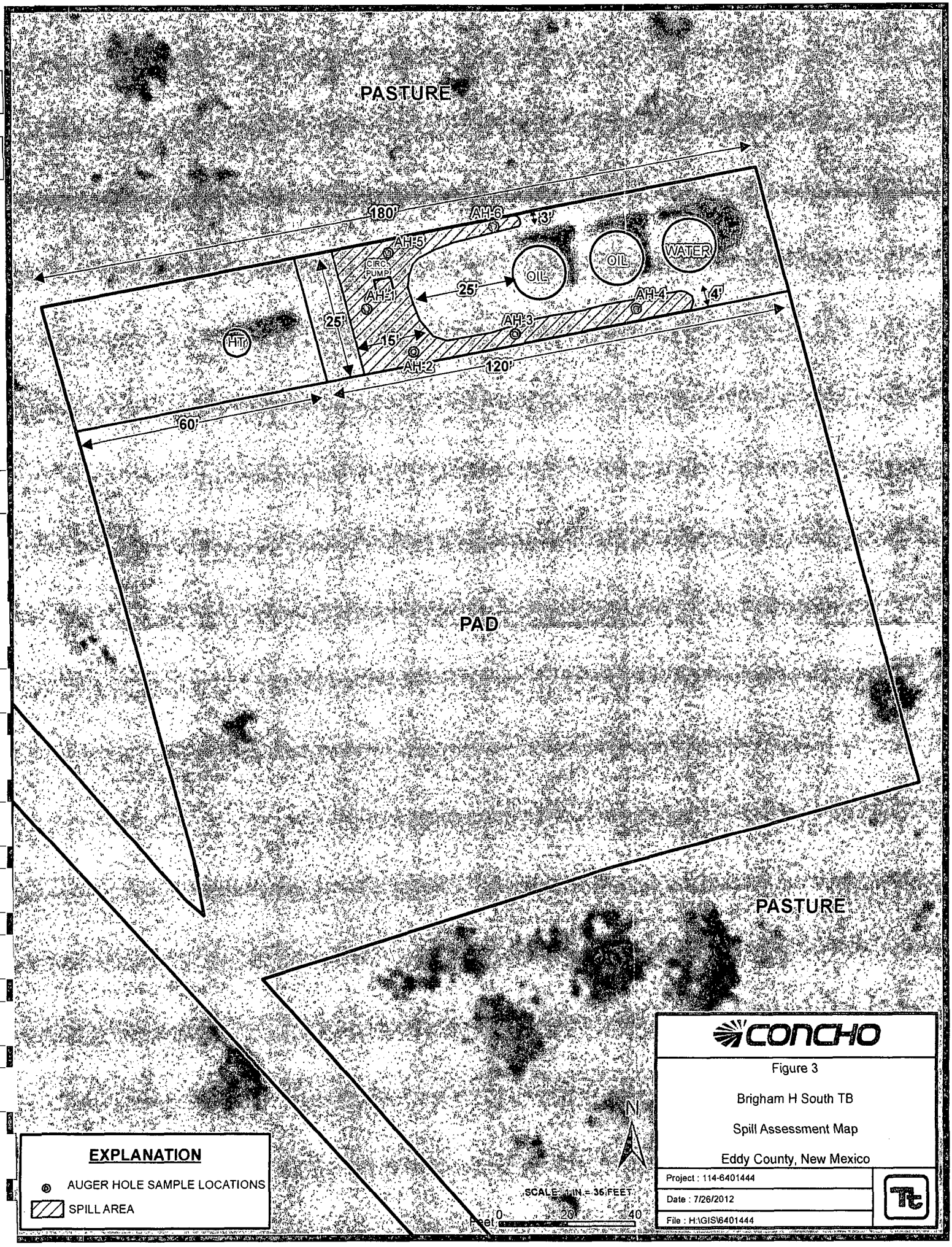
Topo Map 1:24,000

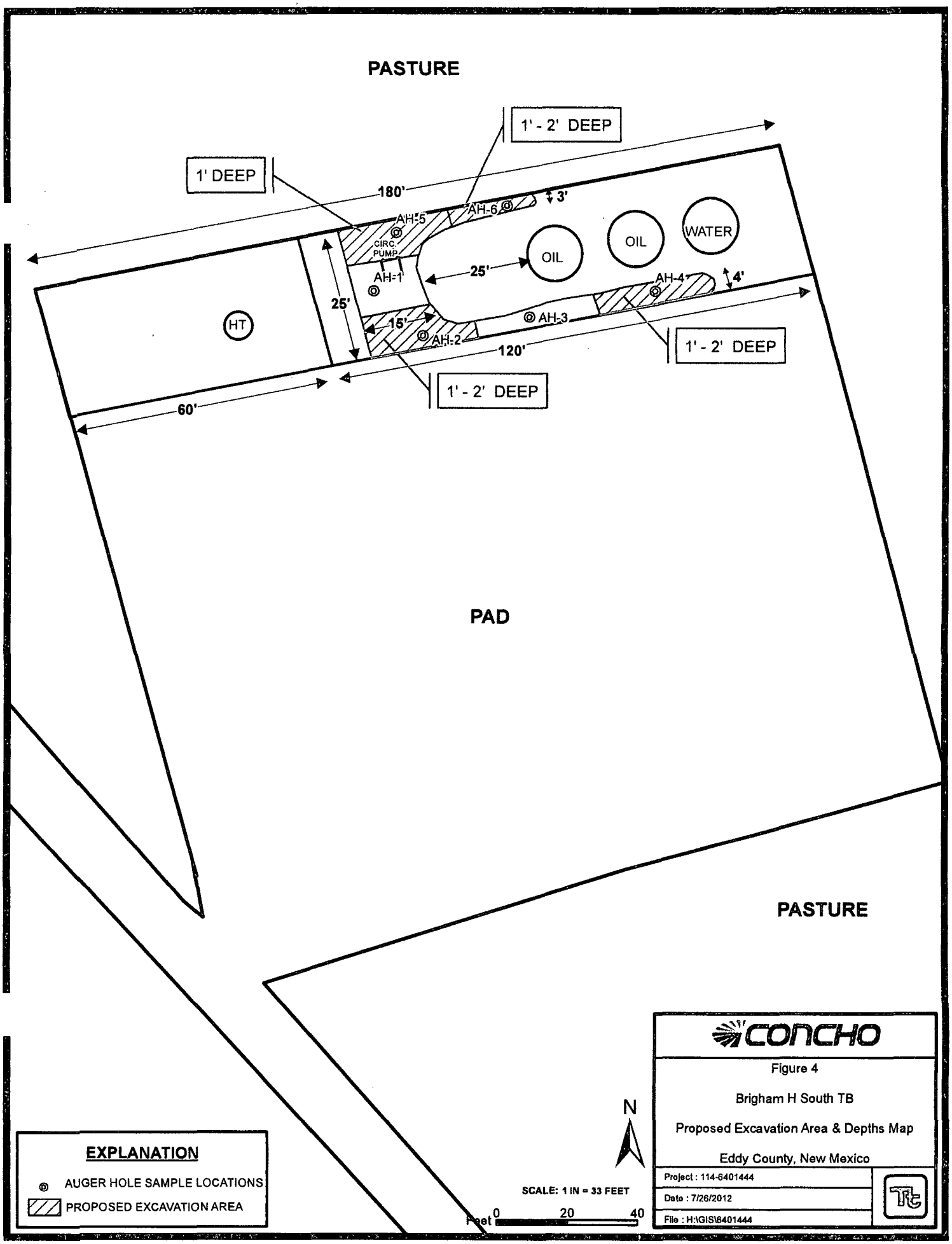
Eddy County, New Mexico

| | |
|---|---|
| Project : 114-6401444 | |
| Date : 7/26/2012 | |
| File : H:\GIS\6401444 | |

Drawn By: Isabel Marmolejo


PASTURE
180'
AH-6
3'
AH-5
CIRC. PUMP
AH-1
25'
OIL
OIL
WATER
25'
AH-4
4'
AH-3
HT
15'
AH-2
120'
60'
PAD
PASTURE
EXPLANATION
AUGER HOLE SAMPLE LOCATIONS
SPILL AREA
N
SCALE: 1 IN = 35 FEET
Feet 0 20 40
CONCHO
Figure 3
Brigham H South TB
Spill Assessment Map
Eddy County, New Mexico
Project : 114-6401444
Date : 7/26/2012
File : H:\GIS\6401444
Drawn By: Isabel Marmolejo


PASTURE
180'
AH-6
3'
AH-5
CIRC. PUMP
OIL
OIL
WATER
AH-1
25'
AH-4
4'
25'
AH-3
15'
HT
AH-2
120'
60'
PAD
PASTURE
N
SCALE: 1 IN. = 36 FEET
Feet 0 20 40
EXPLANATION
AUGER HOLE SAMPLE LOCATIONS
SPILL AREA
CONCHO
Figure 3
Brigham H South TB
Spill Assessment Map
Eddy County, New Mexico
Project : 114-6401444
Date : 7/26/2012
File : H:\GIS\6401444
Drawn By: Isabel Marmolejo


PASTURE
1' - 2' DEEP
1' DEEP
180'
3'
AH-5
AH-6
CIRC. PUMP
AH-1
25'
OIL
OIL
WATER
AH-4
4'
HT
25'
15'
AH-2
AH-3
120'
1' - 2' DEEP
1' - 2' DEEP
60'
PAD
PASTURE
EXPLANATION
AUGER HOLE SAMPLE LOCATIONS
PROPOSED EXCAVATION AREA
N
SCALE: 1 IN = 33 FEET
Feet 0 20 40
CONCHO
Figure 4
Brigham H South TB
Proposed Excavation Area & Depths Map
Eddy County, New Mexico
Project : 114-6401444
Date : 7/26/2012
File : H:\GIS\6401444
Drawn By: Isabel Marmolejo

# Tables

# Table 1
## COG Operating LLC.
## Brigham H South Tank Battery
## Eddy County, New Mexico

| Sample ID | Sample Date | Sample Depth (ft) | BEB Depth (ft) | Soil Status | | TPH (mg/kg) | | | Benzene (mg/kg) | Toluene (mg/kg) | Ethlybenzene (mg/kg) | Xylene (mg/kg) | Total BTEX (mg/kg) | Chloride (mg/kg) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | In-Situ | Removed | GRO | DRO | Total | | | | | | |
| AH-1 | 7/3/2012 | 0-1 | 0.5 | X | | 21.9 | 1,590 | 1,612 | 0.0231 | 0.645 | 0.335 | 0.507 | 1.51 | 99.6 |
| | " | 1-1.5 | 0.5 | X | | - | - | - | - | - | - | - | - | <20.0 |
| | " | 1.5-2 | 0.5 | X | | - | - | - | - | - | - | - | - | <20.0 |
| AH-2 | 7/3/2012 | 0-1 | 0.5 | X | | 1,620 | 4,000 | 5,620 | 0.264 | 22.4 | 38.1 | 69.8 | 131 | <20.0 |
| | " | 1-1.5 | 0.5 | X | | - | - | - | - | - | - | - | - | 94.6 |
| AH-3 | 7/3/2012 | 0-1 | 0.5 | X | | 46.6 | 711 | 758 | 0.0609 | 0.245 | 0.411 | 0.713 | 1.43 | 632 |
| AH-4 | 7/3/2012 | 0-0.5 | 0.5 | X | | 6.65 | 72.9 | 79.6 | <0.0200 | 0.0504 | 0.0227 | 0.0236 | 0.097 | 4,320 |
| AH-5 | 7/3/2012 | 0-1 | 0.5 | X | | 1,120 | 10,000 | 11,120 | <0.200 | 7.82 | 18.3 | 32.3 | 58.4 | <20.0 |
| | " | 1-1.5 | 0.5 | X | | 763 | 4,060 | 4,823 | <0.400 | 4.10 | 8.63 | 16.4 | 29.1 | <20.0 |
| AH-6 | 7/3/2012 | 0-1 | 0.5 | X | | 2,750 | 4,200 | 6,950 | 2.05 | 8.85 | 22.9 | 24.9 | 58.7 | 76.0 |

( - ) Not Analyzed

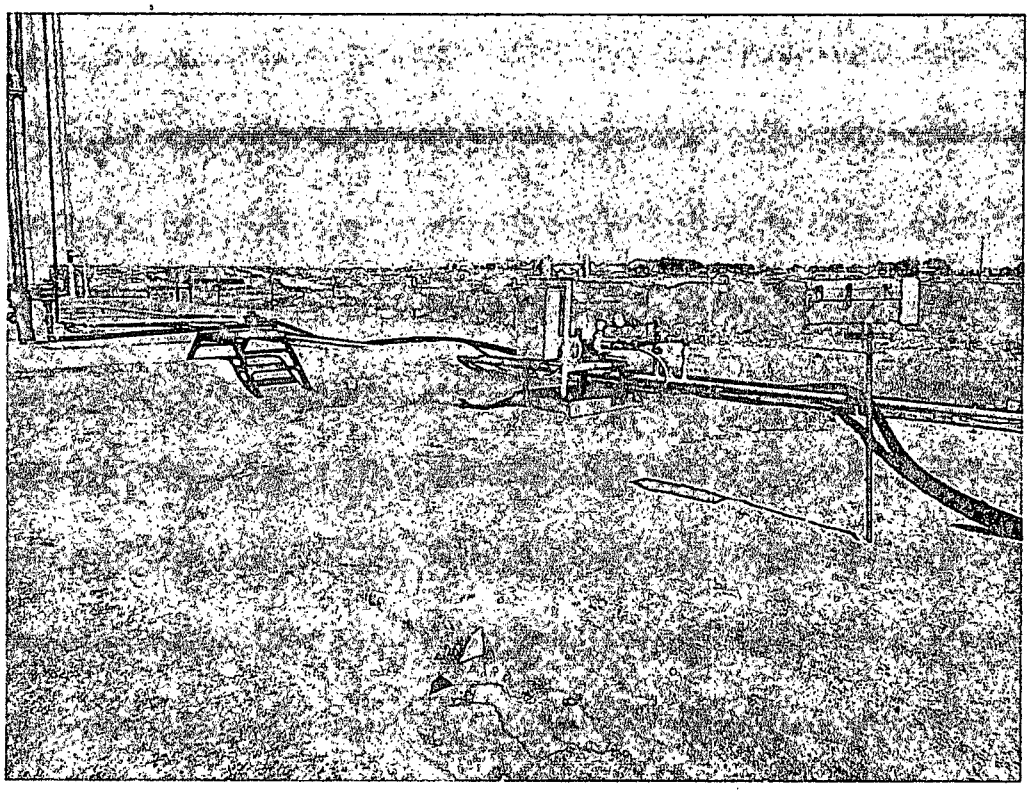
(BEB) Below Excavation Bottom

Proposed Excavation Depths

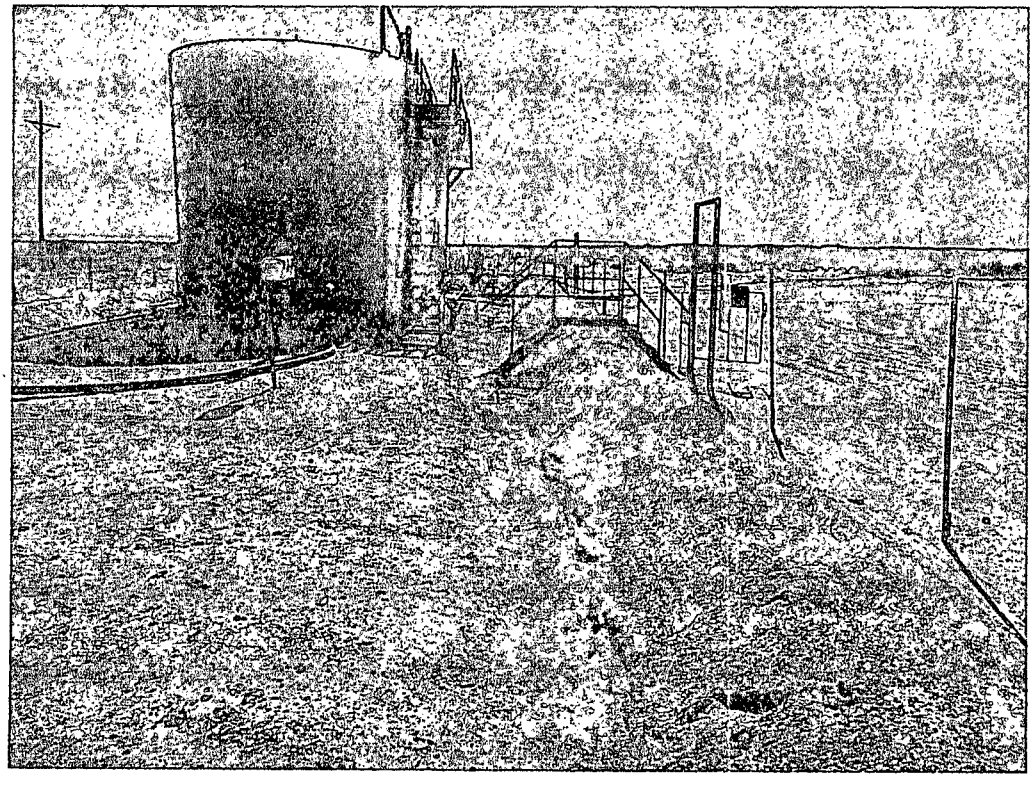
# Photos

COG Operating LLC
Brigham H South Tank Battery
Eddy County, New Mexico

TETRA TECH



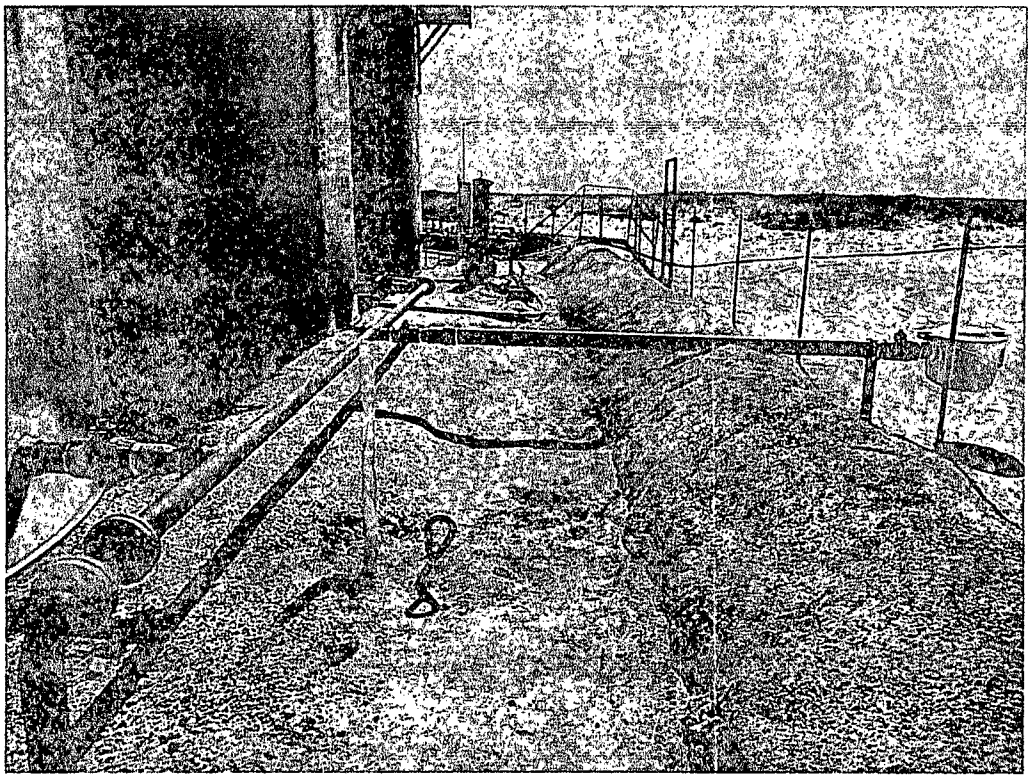
View north west – Circulation pump source, near AH-1 and AH-2



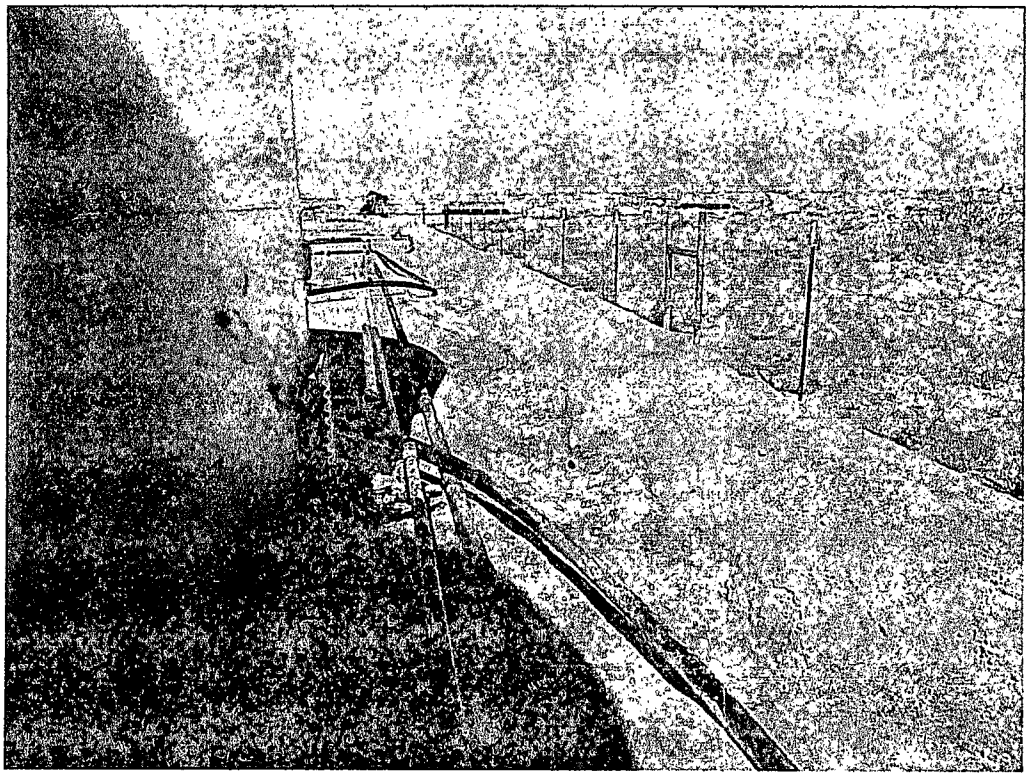
View east – Near AH-2 and AH-3

COG Operating LLC
Brigham H South Tank Battery
Eddy County, New Mexico

TETRA TECH



View east – front side of battery near AH-4



View west – backside of battery near AH-5 and AH-6

# Appendix A

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 | Pat Ellis |
| Address | 550 W. Texas, Suite 100, Midland, TX 79701 | Telephone No. | 432-230-0077 |
| Facility Name | Brigham H South Tank Battery | Facility Type | Tank Battery |

| | | |
|---|---|---|
| Surface Owner Federal | Mineral Owner | Lease No. (API#) 30-015-50473<br>Closest well location |

## LOCATION OF RELEASE

| Unit Letter | Section | Township | Range | Feet from the | North/South Line | Feet from the | East/West Line | County |
|---|---|---|---|---|---|---|---|---|
| C | 28 | 17 | 30E | | | | | Eddy |

**Latitude** 32 48.720 **Longitude** 103 58.685

## NATURE OF RELEASE

| | | |
|---|---|---|
| Type of Release Oil | Volume of Release 13bbls | Volume Recovered 10bbls |
| Source of Release Circulating pump | Date and Hour of Occurrence<br>05/16/2012 | Date and Hour of Discovery<br>05/16/2012 1:03 p.m. |
| Was Immediate Notice Given?<br>☐ Yes ☒ No ☒ Not Required | If YES, To Whom? | |
| By Whom? | Date and Hour | |
| Was a Watercourse Reached?<br>☐ Yes ☒ No | If YES, Volume Impacting the Watercourse. | |

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

The seal on the circulating pump was not working correctly and subsequently caused a release of oil into the facility. The seal inside the pump has been replaced.

Describe Area Affected and Cleanup Action Taken.*

Initially 13bbls of oil was released from the circulating pump and we were able to recover 10bbls with a vacuum truck. All free fluid has been recovered and several inches of the contaminated soil has been removed from the facility and hauled to disposal. 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 NMOCD/BLM 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 ☐ |
| Date: 06/04/2012 Phone: 432-212-2399 | | |

* Attach Additional Sheets If Necessary

# Appendix B

# Water Well Data
## Average Depth to Groundwater (ft)
## COG - Brigham H South Tank Battery
## Eddy County, New Mexico

**16 South 29 East**

| | | | | | |
|---|---|---|---|---|---|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 **110** | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

**16 South 30 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 |

**16 South 31 East**

| | | | | | |
|---|---|---|---|---|---|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 **288** |
| 18 | 17 | 16 | 15 | 14 | 13 **113** |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 **290** | 32 | 33 | 34 | 35 | 36 |

**17 South 29 East**

| | | | | | |
|---|---|---|---|---|---|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 |
| 18 | 17 | 16 | 15 | 14 | 13 |
| 19 | 20 | 21 | 22 **80** | 23 | 24 |
| 30 | 29 **210** **208'** | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 153 | 36 |

**17 South 30 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 **SITE** | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 | 36 |

**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 **271** | 35 | 36 |

**18 South 29 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 |

**18 South 30 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 |

**18 South 31 East**

| | | | | | |
|---|---|---|---|---|---|
| 6 | 5 | 4 | 3 | 2 | 1 |
| 7 | 8 | 9 | 10 | 11 | 12 **400** |
| 18 | 17 | 16 | 15 | 14 **317** | 13 |
| 19 | 20 | 21 | 22 | 23 | 24 |
| 30 | 29 | 28 | 27 | 26 | 25 |
| 31 | 32 | 33 | 34 | 35 **261** | 36 |

New Mexico State Engineers Well Reports

USGS Well Reports

Geology and Groundwater Conditions in Southern Eddy, County, NM

NMOCD - Groundwater Data

Site Location -Brigham H South Tank Battery

# Appendix C

# Summary Report

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

Report Date: July 20, 2012

Work Order: 12070519

Project Location: Eddy Co., NM
Project Name: COG/Brigham H South Tank Battery
Project Number: 114-6401444

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|---|---|---|---|---|---|
| 302766 | AH-1 0-1' (6 in. BEB) | soil | 2012-07-03 | 00:00 | 2012-07-05 |
| 302767 | AH-1 1-1.5' (6 in. BEB) | soil | 2012-07-03 | 00:00 | 2012-07-05 |
| 302768 | AH-1 1.5-2' (6 in. BEB) | soil | 2012-07-03 | 00:00 | 2012-07-05 |
| 302769 | AH-2 0-1' (6 in. BEB) | soil | 2012-07-03 | 00:00 | 2012-07-05 |
| 302770 | AH-2 1-1.5' (6 in. BEB) | soil | 2012-07-03 | 00:00 | 2012-07-05 |
| 302771 | AH-3 0-1' (6 in. BEB) | soil | 2012-07-03 | 00:00 | 2012-07-05 |
| 302772 | AH-4 0-.5' (6 in. BEB) | soil | 2012-07-03 | 00:00 | 2012-07-05 |
| 302773 | AH-5 0-1' (6 in. BEB) | soil | 2012-07-03 | 00:00 | 2012-07-05 |
| 302774 | AH-5 1-1.5' (6 in. BEB) | soil | 2012-07-03 | 00:00 | 2012-07-05 |
| 302775 | AH-6 0-1' (6 in. BEB) | soil | 2012-07-03 | 00:00 | 2012-07-05 |

| Sample - Field Code | BTEX Benzene (mg/Kg) | Toluene (mg/Kg) | Ethylbenzene (mg/Kg) | Xylene (mg/Kg) | MTBE MTBE (mg/Kg) | TPH DRO - NEW DRO (mg/Kg) | TPH GRO GRO (mg/Kg) |
|---|---|---|---|---|---|---|---|
| **302766 - AH-1 0-1' (6 in. BEB)** | **0.0231** | **0.645** | **0.335** | **0.507** | | **1590** Qs | **21.9** Qs |
| **302769 - AH-2 0-1' (6 in. BEB)** | **0.264** | **22.4** | **38.1** | **69.8** | | **4000** Qs | **1620** Je,Qs |
| **302771 - AH-3 0-1' (6 in. BEB)** | **0.0609** | **0.245** | **0.411** | **0.713** | | **711** Qs | **46.6** Qs |
| **302772 - AH-4 0-.5' (6 in. BEB)** | <0.0200 | **0.0504** | **0.0227** | **0.0236** | | **72.9** Qs | **6.65** Qs |
| **302773 - AH-5 0-1' (6 in. BEB)** | <0.200 [1] | **7.82** | **18.3** | **32.3** | | **10000** Qs | **1120** Je,Qs |
| **302774 - AH-5 1-1.5' (6 in. BEB)** | <0.400 [2] | **4.10** | **8.63** | **16.4** | <0.400 | **4060** Qs | **763** |
| **302775 - AH-6 0-1' (6 in. BEB)** | **2.05** | **8.85** | **22.9** | **24.9** | | **4200** Qs | **2750** [3] Qs |

**Sample: 302766 - AH-1 0-1' (6 in. BEB)**

*continued ...*

[1]Dilution due to excessive hydrocarbons.
[2]Dilution due to excessive hydrocarbons.
[3]Sample weighed out of 48-hr preservation time.

*sample 302766 continued ...*

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | **99.6** | mg/Kg | 4 |

**Sample: 302767 - AH-1 1-1.5' (6 in. BEB)**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | <20.0 | mg/Kg | 4 |

**Sample: 302768 - AH-1 1.5-2' (6 in. BEB)**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | <20.0 | mg/Kg | 4 |

**Sample: 302769 - AH-2 0-1' (6 in. BEB)**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | <20.0 | mg/Kg | 4 |

**Sample: 302770 - AH-2 1-1.5' (6 in. BEB)**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | **94.6** | mg/Kg | 4 |

**Sample: 302771 - AH-3 0-1' (6 in. BEB)**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | **632** | mg/Kg | 4 |

**Sample: 302772 - AH-4 0-.5' (6 in. BEB)**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | **4320** | mg/Kg | 4 |

**Sample: 302773 - AH-5 0-1' (6 in. BEB)**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | <20.0 | mg/Kg | 4 |

**Sample: 302774 - AH-5 1-1.5' (6 in. BEB)**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | <20.0 | mg/Kg | 4 |

**Sample: 302775 - AH-6 0-1' (6 in. BEB)**

| Param | Flag | Result | Units | RL |
|---|---|---|---|---|
| Chloride | | **76.0** | mg/Kg | 4 |