

SITE INFORMATION

Report Type: Work Plan

General Site Information:

Site:	Hearse 36 State #4H					
Company:	COG Operating LLC					
Section, Township and Range	Unit O	Sec 36	T19S	R25E		
Lease Number:	API-30-015-39264					
County:	Eddy County					
GPS:	32.61030° N			104.43493° W		
Surface Owner:	State					
Mineral Owner:						
Directions:	North of Carlsbad at the intersection of Hwy 285 and Hwy 524, travel north on Hwy 285 for 11.9 miles, turn left (west) onto CR 23 and travel 1.8 miles, turn left (southwest) and travel 0.8 mile, turn left (east) and travel 0.2 mile to the site.					

Release Data:

Date Released:	5/3/2013
Type Release:	Oil
Source of Contamination:	Casing valve on well head
Fluid Released:	40 bbls
Fluids Recovered:	30 bbls

Official Communication:

Name:	Pat Ellis	Ike Tavaréz
Company:	COG Operating, LLC	Tetra Tech
Address:	One Concho Center 600 W. Illinois Ave.	1910 N. Big Spring
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	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



July 29, 2013

Mr. Mike Bratcher
Environmental Engineer Specialist
Oil Conservation Division, District 2
811 S. First Street
Artesia, New Mexico 88210

Re: Work Plan for the COG Operating LLC., Hearse 36 State #4H, Well Site, Unit O, Section 36, Township 19 South, Range 25 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 Hearse 36 State #4H, Well Site located in Unit O, Section 36, Township 19 South, Range 25 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.61030°, W 104.43493°. 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 3, 2013, and released approximately forty (40) barrels of oil from the casing valve on the wellhead. To alleviate the problem, COG personnel closed the valve. Thirty (30) barrels of standing fluids were recovered. The spill initiated on the well pad affecting an area approximately 30' X 50', the release then migrated into the pasture affecting an area 40' x 150', 15' x 40', 25' x 140' and 30' x 230'. The initial C-141 form is enclosed in Appendix A.

Groundwater

No water wells were listed within Section 36. According to the NMOCD groundwater map, the average depth to groundwater in this area is between 100' and 125' below surface. The groundwater data is shown in Appendix B.

Tetra Tech

1910 North Big Spring, Midland, TX 79705

Tel 432.682.4559

Fax 432.682.3946

www.tetrattech.com

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 29, 2013, Tetra Tech personnel inspected and sampled the spill area. Fourteen (14) auger holes (AH-1 through AH-14) and a background auger hole 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. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C. The sampling results are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, the areas of AH-3, AH-5, AH-7 and AH-8 did not show any significant impact to the soils for TPH, BTEX or chlorides. However, the samples in the areas of AH-10, AH-12, AH-13 and AH-14 either exceeded the TPH or BTEX constituents. Auger holes (AH-12, AH-13 and AH-14) declined below the RRAL's at 1-1.5' below surface. AH-10 was not vertically defined at 1-1.5', with TPH concentrations of 9,080 mg/kg and total BTEX of 276 mg/kg.

Elevated chloride concentrations were detected in auger holes (AH-1, AH-2, AH-4, AH-6, AH-9, AH-10, and AH-11). Auger holes (AH-1, AH-4, AH-6 and AH-10) showed elevated chloride concentrations and were not vertically defined. Auger holes (AH-2, AH-9, AH-11) showed declining chloride concentrations with depth and vertically defined at approximately 1.0' to 2.0' below surface.

Work Plan

COG proposes to remove the impacted material as highlighted (green) in Table 1 and shown on Figure 4. The areas of AH-1, AH-4, AH-11, AH-12, AH-13 and AH-14 will be excavated to depth of approximately 1.0' below surface to remove the elevated chlorides and soil exceeding the RRAL. In addition, the areas of AH-6, AH-9 and AH-10 will be excavated to a depth of approximately 2.0' to 3.0' below surface.



Once these areas (AH-1, AH-4, AH-6 and AH-10) are excavated, Tetra Tech will install backhoe trenches to define extents. Based on the field results, the areas will be excavated to the appropriate depths. Tetra Tech will collect a bottom hole sample in the area of AH-10 for TPH and BTEX to confirm the removal of the soil above the RRAL. All of the excavated soil will be transported offsite for proper disposal and the areas will be backfilled with clean material to surface grade.

The proposed excavation depths may not be reached due to wall cave ins and safety concerns for onsite personnel. In addition, impacted soil around oil and gas equipment, structures or lines may not be feasible or practicable to be removed due to safety concerns. As such, Tetra Tech will excavate the soils to the maximum extent practicable.

Once the remedial activities are completed, Tetra Tech will prepare a closure report for review. If you have any questions or comments concerning the assessment or the proposed remediation activities for this site, please call me at (432) 682-4559.

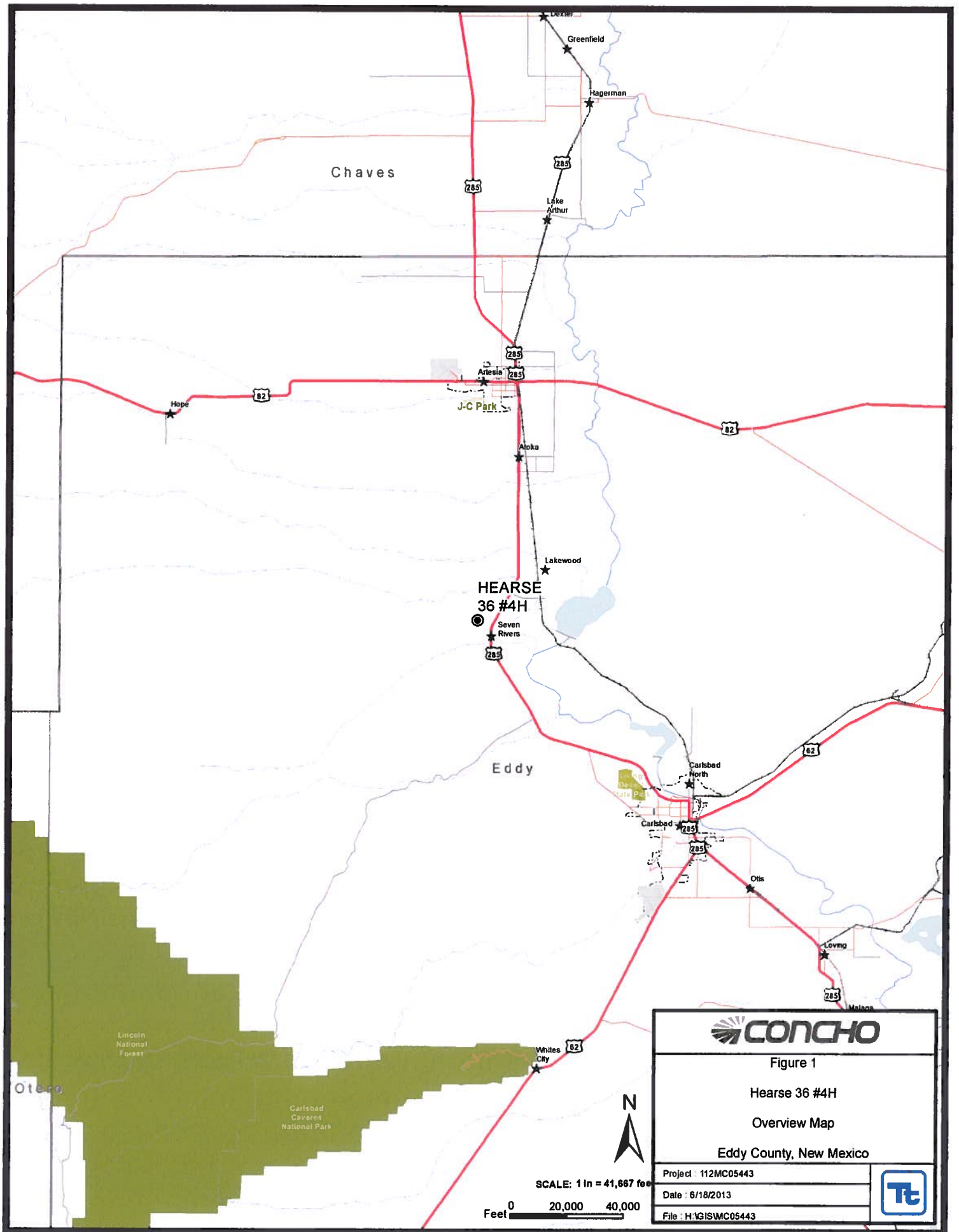
Respectfully submitted,
TETRA TECH

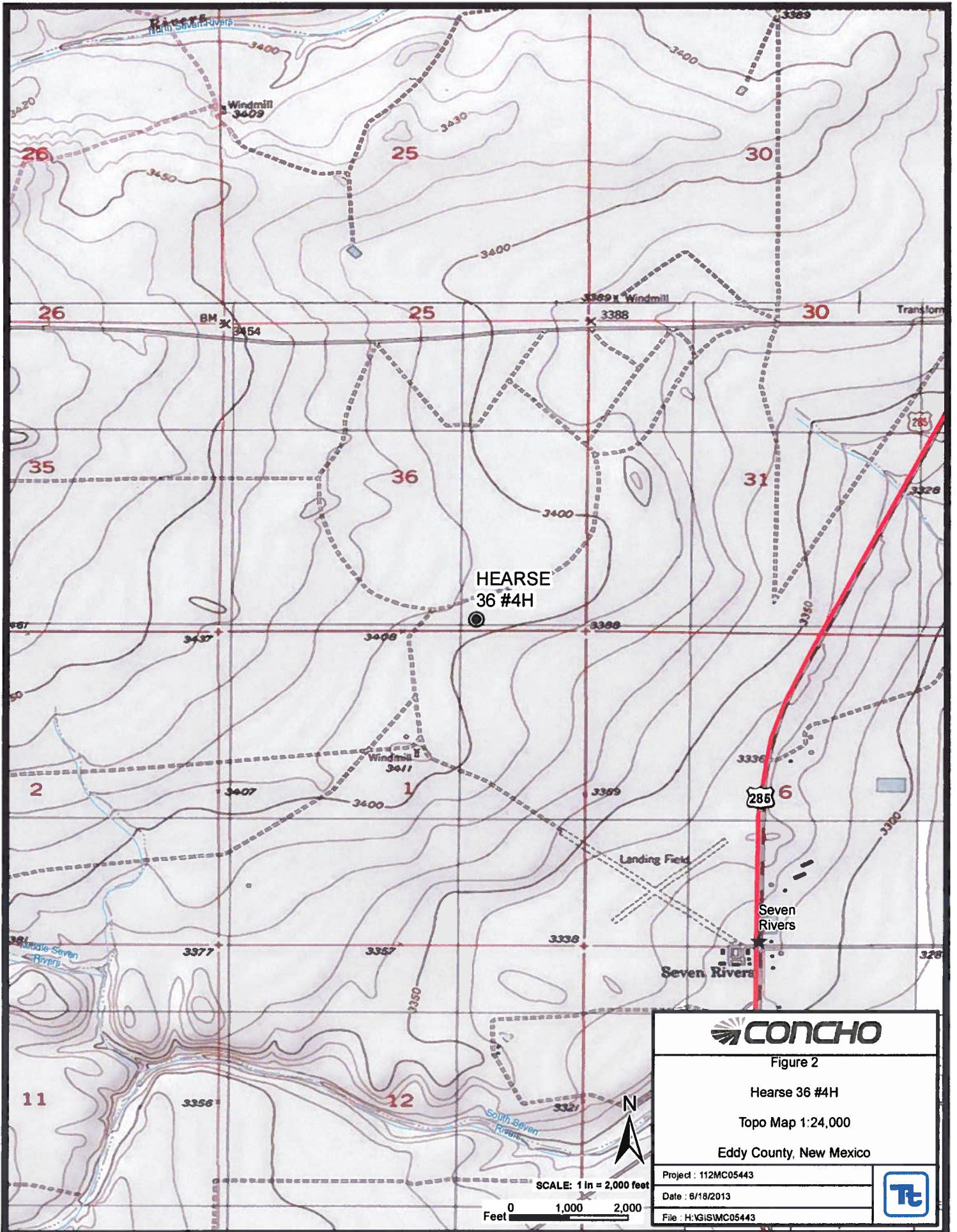
A handwritten signature in blue ink, appearing to read 'Ike Tavarez', written over the printed name.

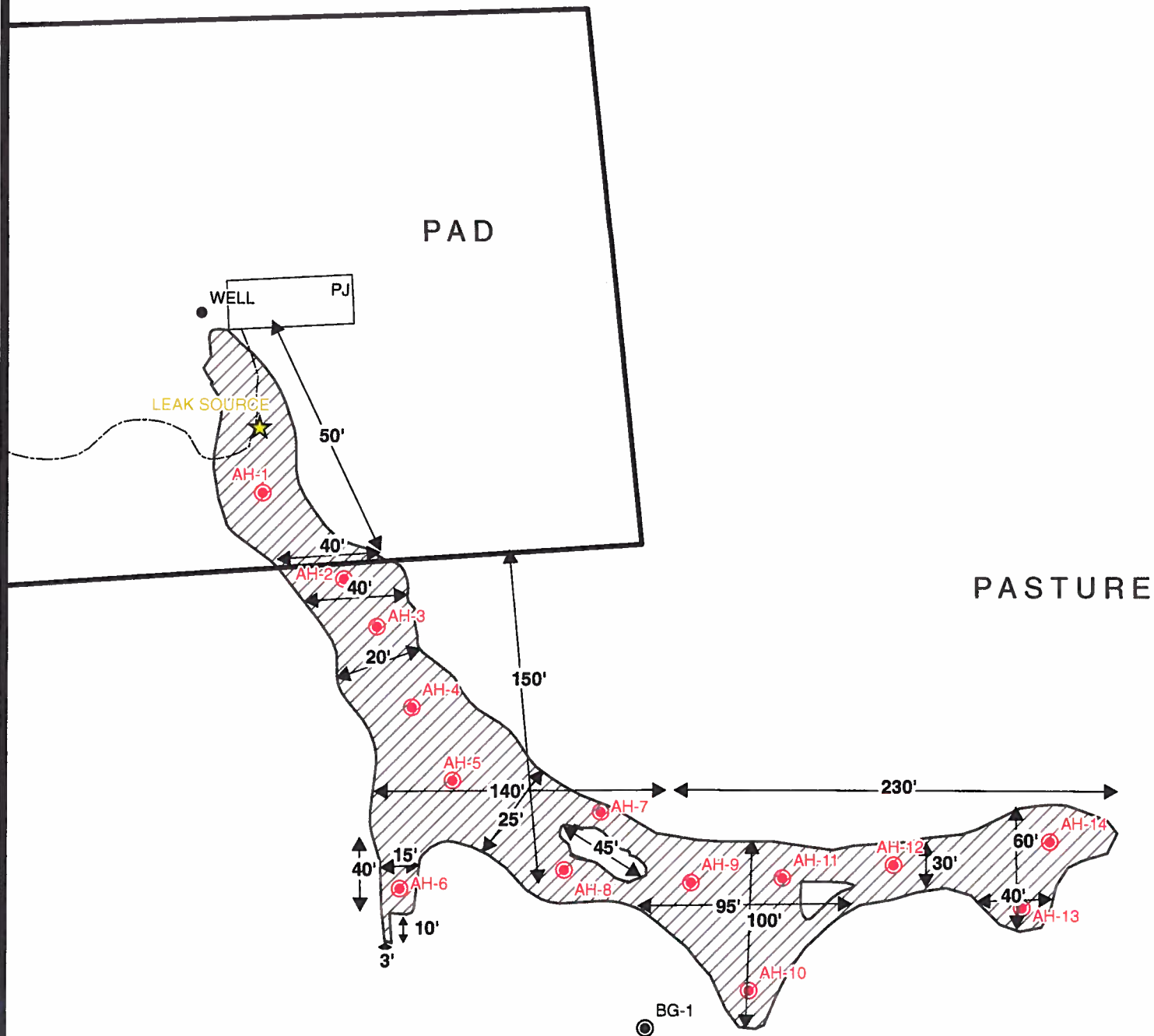
Ike Tavarez, PG
Senior Project Manager

cc: Pat Ellis – COG

Figures







EXPLANATION

- AUGER HOLE SAMPLE LOCATIONS
- ★ LEAK SOURCE
- ▨ SPILL AREA

SCALE: 1 IN = 83 FEET

Feet 0 20 40



CONCHO

Figure 3

Hearse 36 #4H

Spill Assessment Map

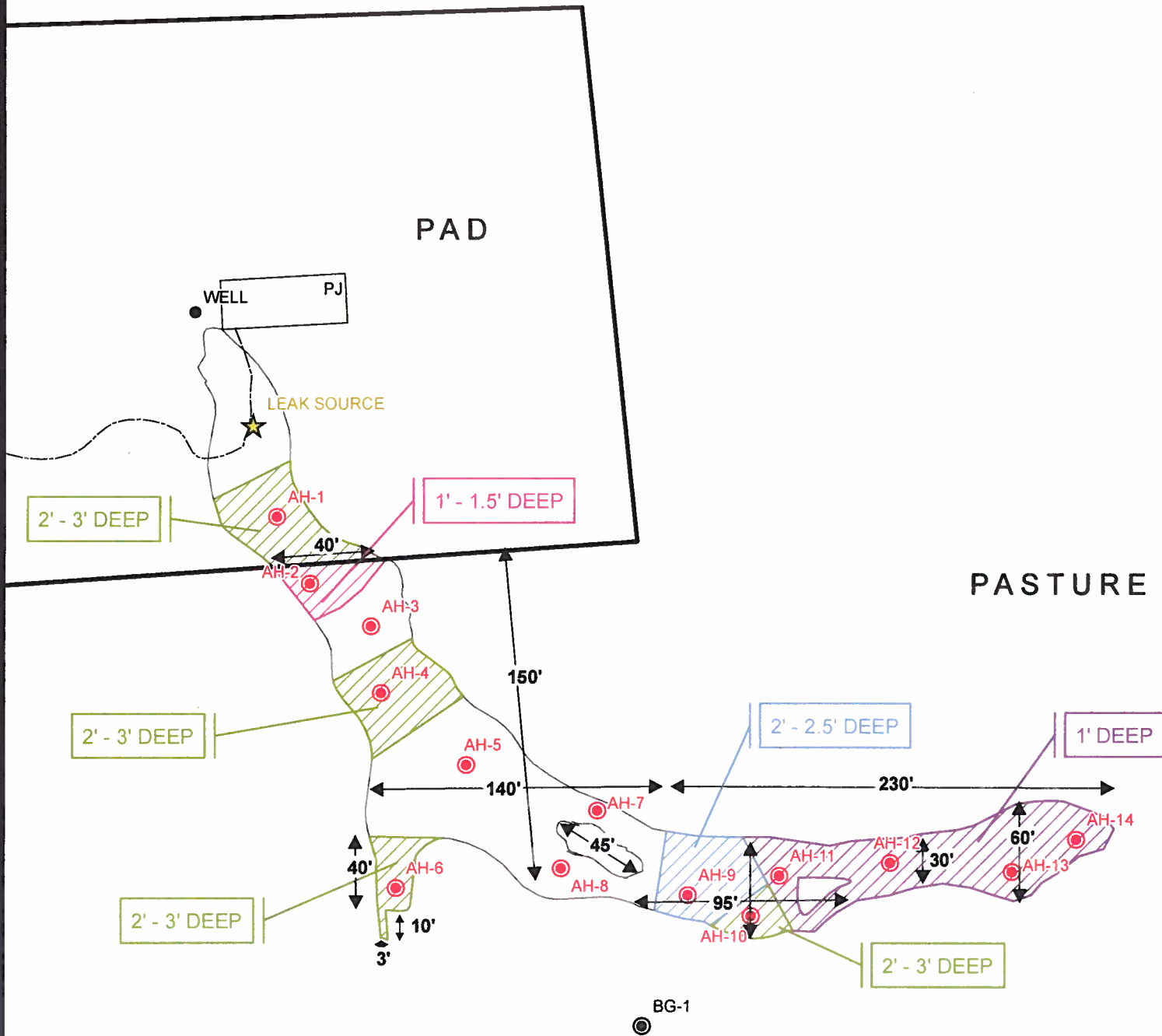
Eddy County, New Mexico

Project : 112MC05443

Date : 6/18/2013

File : H:\GIS\MC05443

Tt



EXPLANATION

- AUGER HOLE SAMPLE LOCATIONS
- ★ LEAK SOURCE
- ▨ PROPOSED EXCAVATION AREAS

SCALE: 1 IN = 83 FEET

Feet 0 20 40

CONCHO

Figure 4

Hearse 36 #4H

Proposed Excavation Areas & Depths Map

Eddy County, New Mexico

Project : 112MC05443

Date : 6/18/2013

File : H:\GIS\MC05443

Tt

Tables

Table 1
COG Operating LLC.
Hearse 36 #4H
Eddy County, New Mexico

[illegible]

Table 1

COG Operating LLC.

Hearse 36 #4H

Eddy County, New Mexico

Sample ID	Sample Date	BEB Sample Depth (ft)	Excavation Bottom Depth (ft)	Soil Status		TPH (mg/kg)		Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO						
AH-7	5/30/2013	0-1	0	X		35.1	<50.0	-	-	-	-	-	<20.0
	"	1-1.5	"	X		-	-	-	-	-	-	-	<20.0
	"	2-2.5	"	X		-	-	-	-	-	-	-	<20.0
	"	3-3.5	"	X		-	-	-	-	-	-	-	<20.0
AH-8	5/30/2013	0-1	0	X		299	2,770	<0.400	<0.400	<0.400	2.62	2.62	<20.0
	"	1-1.5	"	X		-	-	-	-	-	-	-	<20.0
	"	2-2.5	"	X		-	-	-	-	-	-	-	<20.0
	"	3-3.5	"	X		-	-	-	-	-	-	-	<20.0
AH-9	5/30/2013	0-1	0	X		691	129	<0.200	1.98	10.9	28.0	40.9	7,510
	"	1-1.5	"	X		-	-	-	-	-	-	-	2,030
	"	2-2.5	"	X		-	-	-	-	-	-	-	3,220
	"	2.5-3	"	X		-	-	-	-	-	-	-	396
AH-10 Trench	5/30/2013	0-1	0	X		1,880	7,770	17.3	74.9	164	386	642	4,550
	"	1-1.5	"	X		4,430	4,650	3.42	27.4	85.3	160	276	3,530
AH-11	5/30/2013	0-1	0	X		33.2	163	-	-	-	-	-	3,650
	"	1-1.5	"	X		-	-	-	-	-	-	-	<20.0
	"	2-2.5	"	X		-	-	-	-	-	-	-	147

Table 1
COG Operating LLC.
Hearse 36 #4H
Eddy County, New Mexico

Sample ID	Sample Date	BEB Sample Depth (ft)	Excavation Bottom Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total						
AH-12	5/30/2013	0-1	0	X		3,860	916	4,776	<0.200	12.9	58.6	116	188	832
	"	1-1.5	"	X		-	-	-	<0.0200	<0.0200	0.498	1.46	1.96	65.5
AH-13	5/30/2013	0-1	0	X		4,270	2,770	7,040	<0.200	11.2	66.5	139	217	<20.0
	"	1-1.5	"	X		39.5	207	247	<0.0200	<0.0200	<0.0200	0.974	0.974	<20.0
	"	2-2.5	"	X		-	-	-	-	-	-	-	-	<20.0
AH-14	5/30/2013	0-1	0	X		6,620	3,740	10,360	5.23	35.2	119	219	378	282
	"	1-1.5	"	X		8.34	<50.0	8.34	<0.0200	<0.0200	<0.0200	0.118	0.118	<20.0
	"	2-2.5	"	X		-	-	-	-	-	-	-	-	<20.0
Background 1	5/30/2013	0-1	0	X		<4.00	<50.0	<50.0	-	-	-	-	-	<20.0
	"	1-1.5	"	X		-	-	-	-	-	-	-	-	<20.0
	"	2-2.5	"	X		-	-	-	-	-	-	-	-	<20.0

(-) Not Analyzed

(BEB) Below Excavation Bottom

Proposed Excavation Depths and Areas

Trench

Install Backhoe Trench

Photos

COG Operating LLC
Hearse 36 State #4H
Eddy County, New Mexico



TETRA TECH



View Northwest – Area of AH-1



View South – Area of AH-2

COG Operating LLC
Hearse 36 State #4H
Eddy County, New Mexico



TETRA TECH



View South – Area of AH-3 and AH-4



View South – Area of AH-5

COG Operating LLC
Hearse 36 State #4H
Eddy County, New Mexico



TETRA TECH



View South – Area of AH-6



View East – Area of AH-7 and AH-8

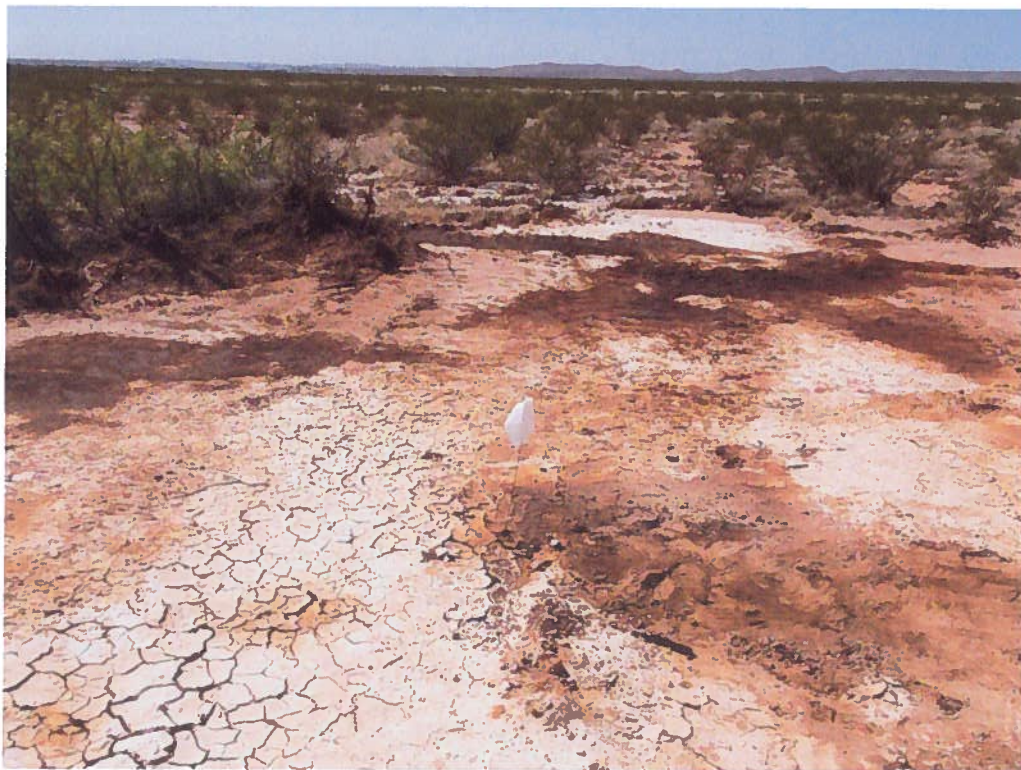
COG Operating LLC
Hearse 36 State #4H
Eddy County, New Mexico



TETRA TECH



View East – Area of AH-9



View South – Area of AH-10

COG Operating LLC
Hearse 36 State #4H
Eddy County, New Mexico



TETRA TECH



View East – Area of AH-11



View East – Area of AH-12

COG Operating LLC
Hearse 36 State #4H
Eddy County, New Mexico



TETRA TECH



View South – Area of AH-13



View East – Area of AH-14

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	600 West Illinois Avenue, Midland, TX 79701	Telephone No.	432-230-0077
Facility Name	HEARSE 36 STATE #004H	Facility Type	WELL PAD
Surface Owner	STATE	Mineral Owner	
		Lease No. (API#)	30-015-39264

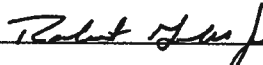
LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
O	36	19S	25E					EDDY

Latitude 32.61068

Longitude 104.43531

NATURE OF RELEASE

Type of Release	Oil	Volume of Release	40bbbls	Volume Recovered	30bbbls
Source of Release	Casing valve on well head	Date and Hour of Occurrence	05-03-2013	Date and Hour of Discovery	05-03-2013 7:00am
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Mike Bratcher - NMOCD		
By Whom?	Michelle Mullins	Date and Hour	05-03-2013 1:23pm		
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.*					
The casing valve was left open on the well head. Closed the valve to prevent any further release.					
Describe Area Affected and Cleanup Action Taken.*					
Initially 40bbbls of oil were released from an open casing valve on the well head. We were able to recover 30bbbls of oil with a vacuum truck. The spill occurred on the location and traveled to the adjacent pasture. All free fluids have been removed from the location and the pasture. A work plan will be presented 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: 		OIL CONSERVATION DIVISION			
Printed Name: Robert Grubbs Jr.		Approved by District Supervisor:			
Title: Senior Environmental Coordinator		Approval Date:		Expiration Date:	
E-mail Address: rgrubbs@concho.com		Conditions of Approval:		Attached <input type="checkbox"/>	
Date: 05-14-2013		Phone: 432-661-6601			

* Attach Additional Sheets If Necessary

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
COG-Hearse 36 State #4H
Eddy County, New Mexico

18 South 24 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	516	15	14
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

18 South 25 East

6	5	4	3	184	2	175	1	187
7	8	9	10	11	12			
18	17	16	168	14	13			
19	20	21	22	23	24			
30	29	28	27	26	25			
31	32	33	34	35	36			

18 South 26 East

6	200	5	96	4	24	3	65	2	50	1
7	8	9	70	10	8	11	12			
18	56	17	16	51	15	14				
19	20	21	22	98	23	24				
30	29	28	27	26	25					
31	32	33	34	35	36					

19 South 24 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	300	22	23
30	29	28	27	26	25
31	32	33	34	35	36

19 South 25 East

6	5	305	4	3	2	100	1	172
7	8	9	260	10	11	12		
18	17	83	16	15	59	14	13	
19	20	21	22	23	24			
30	29	28	27	60	26	25	80	
31	32	33	34	35	36			

19 South 26 East

6	5	4	70	3	2	1	70	
7	8	9	10	50	11	12	24	
18	69	17	16	15	14	67	13	
19	20	52	21	22	23	80	24	
30	29	28	27	49	26	25		
31	95	32	95	33	34	35	36	

20 South 24 East

6	5	4	3	2	1
7	8	500	9	10	11
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

20 South 25 East

6	5	4	3	2	1	121	
7	8	249	9	10	11	12	
18	17	16	15	14	13		
19	20	21	80	22	23	24	
30	29	28	27	26	25		
31	32	33	34	35	36		

20 South 26 East

6	65	5	20	4	3	2	1
7	5	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		

- 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

Appendix C

Summary Report

(Corrected Report)

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

Report Date: June 19, 2013

Work Order: 13060319



Project Location: Eddy Co., NM
Project Name: COG/Hearse 36 #4H
Project Number: 112MC05443

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
330784	AH-1 0-1'	soil	2013-05-29	00:00	2013-05-31
330785	AH-1 1-1.5'	soil	2013-05-29	00:00	2013-05-31
330786	AH-2 0-1'	soil	2013-05-29	00:00	2013-05-31
330787	AH-2 1-1.5'	soil	2013-05-29	00:00	2013-05-31
330788	AH-2 2-2.5'	soil	2013-05-29	00:00	2013-05-31
330789	AH-3 0-1'	soil	2013-05-29	00:00	2013-05-31
330790	AH-3 1-1.5'	soil	2013-05-29	00:00	2013-05-31
330791	AH-3 2-2.5'	soil	2013-05-29	00:00	2013-05-31
330792	AH-4 0-1'	soil	2013-05-29	00:00	2013-05-31
330793	AH-4 1-1.5'	soil	2013-05-29	00:00	2013-05-31
330794	AH-5 0-1'	soil	2013-05-29	00:00	2013-05-31
330795	AH-5 1-1.5'	soil	2013-05-29	00:00	2013-05-31
330796	AH-5 2-2.5'	soil	2013-05-29	00:00	2013-05-31
330797	AH-6 0-1'	soil	2013-05-29	00:00	2013-05-31
330798	AH-6 1-1.5'	soil	2013-05-29	00:00	2013-05-31
330799	AH-6 2-2.5'	soil	2013-05-29	00:00	2013-05-31
330800	AH-7 0-1'	soil	2013-05-30	00:00	2013-05-31
330801	AH-7 1-1.5'	soil	2013-05-30	00:00	2013-05-31
330802	AH-7 2-2.5'	soil	2013-05-30	00:00	2013-05-31
330803	AH-7 3-3.5'	soil	2013-05-30	00:00	2013-05-31
330804	AH-8 0-1'	soil	2013-05-30	00:00	2013-05-31
330805	AH-8 1-1.5'	soil	2013-05-30	00:00	2013-05-31
330806	AH-8 2-2.5'	soil	2013-05-30	00:00	2013-05-31
330807	AH-8 3-3.5'	soil	2013-05-30	00:00	2013-05-31
330808	AH-9 0-1'	soil	2013-05-30	00:00	2013-05-31
330809	AH-9 1-1.5'	soil	2013-05-30	00:00	2013-05-31
330810	AH-9 2-2.5'	soil	2013-05-30	00:00	2013-05-31
330811	AH-9 2.5-3'	soil	2013-05-30	00:00	2013-05-31

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
330812	AH-10 0-1'	soil	2013-05-30	00:00	2013-05-31
330813	AH-10 1-1.5'	soil	2013-05-30	00:00	2013-05-31
330814	AH-11 0-1'	soil	2013-05-30	00:00	2013-05-31
330815	AH-11 1-1.5'	soil	2013-05-30	00:00	2013-05-31
330816	AH-11 2-2.5'	soil	2013-05-30	00:00	2013-05-31
330817	AH-12 0-1'	soil	2013-05-30	00:00	2013-05-31
330818	AH-12 1-1.5'	soil	2013-05-30	00:00	2013-05-31
330819	AH-13 0-1'	soil	2013-05-30	00:00	2013-05-31
330820	AH-13 1-1.5'	soil	2013-05-30	00:00	2013-05-31
330821	AH-13 2-2.5'	soil	2013-05-30	00:00	2013-05-31
330822	AH-14 0-1'	soil	2013-05-30	00:00	2013-05-31
330823	AH-14 1-1.5'	soil	2013-05-30	00:00	2013-05-31
330824	AH-14 2-2.5'	soil	2013-05-30	00:00	2013-05-31
330825	BG 1 0-1'	soil	2013-05-30	00:00	2013-05-31
330826	BG 1 1-1.5'	soil	2013-05-30	00:00	2013-05-31
330827	BG 1 2-2.5'	soil	2013-05-30	00:00	2013-05-31

Sample - Field Code	BTEX				TPH DRO - NEW	TPH GRO
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
330784 - AH-1 0-1'					<50.0	<4.00
330786 - AH-2 0-1'					407	113
330789 - AH-3 0-1'					<50.0	<4.00
330792 - AH-4 0-1'					<50.0	7.31
330794 - AH-5 0-1'	<0.100 ¹	<0.100	<0.100	1.37	654	67.3
330797 - AH-6 0-1'					<50.0	7.19
330800 - AH-7 0-1'					<50.0	35.1
330804 - AH-8 0-1'	<0.400 ²	<0.400	<0.400	2.62	2770	299
330808 - AH-9 0-1'	<0.200 ³	1.98	10.9	28.0	129	691
330812 - AH-10 0-1'	17.3	74.9	164	386	7770	1880
330813 - AH-10 1-1.5'	3.42	27.4	85.3	160	4650	4430
330814 - AH-11 0-1'					163	33.2
330817 - AH-12 0-1'	<0.200 ⁴	12.9	58.6	116	916	3860
330818 - AH-12 1-1.5'	<0.0200	<0.0200	0.498	1.46		
330819 - AH-13 0-1'	<0.200 ⁵	11.2	66.5	139	2770	4270
330820 - AH-13 1-1.5'	<0.0200	<0.0200	<0.0200	0.974	207 _{qr, q_s}	39.5
330822 - AH-14 0-1'	5.23	35.2	119	219	3740	6620
330823 - AH-14 1-1.5'	<0.0200	<0.0200	<0.0200	0.118	<50.0 _{qr, q_s}	8.34
330825 - BG 1 0-1'					<50.0	<4.00

Sample: 330784 - AH-1 0-1'

Param	Flag	Result	Units	RL
Chloride		1480	mg/Kg	4

¹Dilution due to hydrocarbons.²Dilutions due to hydrocarbons.³Dilutions due to hydrocarbons.⁴Dilution due to hydrocarbons.⁵Dilution due to hydrocarbons.

Sample: 330785 - AH-1 1-1.5'

Param	Flag	Result	Units	RL
Chloride		1490	mg/Kg	4

Sample: 330786 - AH-2 0-1'

Param	Flag	Result	Units	RL
Chloride		7850	mg/Kg	4

Sample: 330787 - AH-2 1-1.5'

Param	Flag	Result	Units	RL
Chloride		8060	mg/Kg	4

Sample: 330788 - AH-2 2-2.5'

Param	Flag	Result	Units	RL
Chloride		339	mg/Kg	4

Sample: 330789 - AH-3 0-1'

Param	Flag	Result	Units	RL
Chloride		319	mg/Kg	4

Sample: 330790 - AH-3 1-1.5'

Param	Flag	Result	Units	RL
Chloride		648	mg/Kg	4

Sample: 330791 - AH-3 2-2.5'

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

Sample: 330792 - AH-4 0-1'

Param	Flag	Result	Units	RL
Chloride		2350	mg/Kg	4

Sample: 330793 - AH-4 1-1.5'

Param	Flag	Result	Units	RL
Chloride		1100	mg/Kg	4

Sample: 330794 - AH-5 0-1'

Param	Flag	Result	Units	RL
Chloride		429	mg/Kg	4

Sample: 330795 - AH-5 1-1.5'

Param	Flag	Result	Units	RL
Chloride		74.7	mg/Kg	4

Sample: 330796 - AH-5 2-2.5'

Param	Flag	Result	Units	RL
Chloride		54.8	mg/Kg	4

Sample: 330797 - AH-6 0-1'

Param	Flag	Result	Units	RL
Chloride		4490	mg/Kg	4

Sample: 330798 - AH-6 1-1.5'

Param	Flag	Result	Units	RL
Chloride		5880	mg/Kg	4

Sample: 330799 - AH-6 2-2.5'

Param	Flag	Result	Units	RL
Chloride		4840	mg/Kg	4

Sample: 330800 - AH-7 0-1'

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

Sample: 330801 - AH-7 1-1.5'

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

Sample: 330802 - AH-7 2-2.5'

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

Sample: 330803 - AH-7 3-3.5'

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

Sample: 330804 - AH-8 0-1'

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

Sample: 330805 - AH-8 1-1.5'

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

Sample: 330806 - AH-8 2-2.5'

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

Sample: 330807 - AH-8 3-3.5'

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

Sample: 330808 - AH-9 0-1'

Param	Flag	Result	Units	RL
Chloride		7510	mg/Kg	4

Sample: 330809 - AH-9 1-1.5'

Param	Flag	Result	Units	RL
Chloride		2030	mg/Kg	4

Sample: 330810 - AH-9 2-2.5'

Param	Flag	Result	Units	RL
Chloride		3220	mg/Kg	4

Sample: 330811 - AH-9 2.5-3'

Param	Flag	Result	Units	RL
Chloride		396	mg/Kg	4

Sample: 330812 - AH-10 0-1'

Param	Flag	Result	Units	RL
Chloride		4550	mg/Kg	4

Sample: 330813 - AH-10 1-1.5'

Param	Flag	Result	Units	RL
Chloride		3530	mg/Kg	4

Sample: 330814 - AH-11 0-1'

Param	Flag	Result	Units	RL
Chloride		3650	mg/Kg	4

Sample: 330815 - AH-11 1-1.5'

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

Sample: 330816 - AH-11 2-2.5'

Param	Flag	Result	Units	RL
Chloride		147	mg/Kg	4

Sample: 330817 - AH-12 0-1'

Param	Flag	Result	Units	RL
Chloride		832	mg/Kg	4

Sample: 330818 - AH-12 1-1.5'

Param	Flag	Result	Units	RL
Chloride		65.5	mg/Kg	4

Sample: 330819 - AH-13 0-1'

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

Sample: 330820 - AH-13 1-1.5'

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

Sample: 330821 - AH-13 2-2.5'

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

Sample: 330822 - AH-14 0-1'

Param	Flag	Result	Units	RL
Chloride		282	mg/Kg	4

Sample: 330823 - AH-14 1-1.5'

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

Sample: 330824 - AH-14 2-2.5'

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

Sample: 330825 - BG 1 0-1'

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

Sample: 330826 - BG 1 1-1.5'

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

Sample: 330827 - BG 1 2-2.5'

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