

# SITE INFORMATION

## Report Type: Closure Report

### General Site Information:

<b>Site:</b>	Hearse 36 State #4H				
<b>Company:</b>	COG Operating LLC				
<b>Section, Township and Range</b>	Unit O	Sec 36	T19S	R25E	
<b>Lease Number:</b>	API-30-015-39264				
<b>County:</b>	Eddy County				
<b>GPS:</b>	32.61030° N			104.43493° W	
<b>Surface Owner:</b>	State				
<b>Mineral Owner:</b>					
<b>Directions:</b>	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:

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

### Official Communication:

<b>Name:</b>	Pat Ellis	Ike Tavarez
<b>Company:</b>	COG Operating, LLC	Tetra Tech
<b>Address:</b>	One Concho Center 600 W. Illinois Ave.	1910 N. Big Spring
<b>City:</b>	Midland Texas, 79701	Midland, Texas
<b>Phone number:</b>	(432) 686-3023	(432) 682-4559
<b>Fax:</b>	(432) 684-7137	
<b>Email:</b>	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

<b>Total Ranking Score:</b>	<b>0</b>
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Acceptable Soil RRAL (mg/kg)		
<b>Benzene</b>	<b>Total BTEX</b>	<b>TPH</b>
10	50	5,000

**RECEIVED**

JAN 24 2014

NMOCD ARTESIS



TETRA TECH

September 25, 2013

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

**Re: Closure Report 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.tetratech.com](http://www.tetratech.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.

## Closure Activities

On August 29 - 30, 2013, Tetra Tech removed impacted material as highlighted (green) in Table 1 and shown on Figure 4 using field data, lab analyses and trenching data for the excavation.

The area of AH-2 was excavated to 2.0' below surface, AH-9 was excavated to 2.5' below surface and AH-11 was excavated to 1.0' below surface.



TETRA TECH

Auger Holes (AH-12, AH-13 and AH-14) were excavated to depth of approximately 1.0' below surface to remove the elevated chlorides and soil exceeding the RRAL.

Auger Holes (AH-1, AH-4, AH-6 and AH-10) were trenched for evaluation using a backhoe to define extents of contamination. Based on the data, AH-1, AH-4 and AH-10 were excavated to 2.0' below surface and AH-6 was excavated to 2.5' below surface.

Approximately 1,100 yards were excavated and hauled to disposal and the areas were backfilled with clean material to surface grade.

Based on the remediation activities performed at this location, COG requests closure for this site. The C-141 (Final) is included in Appendix A. If you have any questions or comments concerning the assessment or the remediation activities performed at the site, please call me at (432) 682-4559.

Respectfully submitted,  
TETRA TECH

Ike Tavares, PG  
Senior Project Manager

cc: Robert McNeill – COG

# Tables



**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)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total						
AH-6	5/29/2013	0-1	0		X	7.19	<50.0	7.19						4,490
	"	1-1.5	"		X									5,880
	"	2-2.5	"		X									4,840
T2	9/4/2013	0	0		X									11,700
	"	2	Bottom hole	X		-	-	-	-	-	-	-	-	1,420
AH-7	5/30/2013	0-1	0	X		35.1	<50.0	35.1	-	-	-	-	-	<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	3,069	<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	820	<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	5/30/2013	0-1	0		X	1,880	7,770	9,650	17.3	74.9	164	386	642	4,550
	"	1-1.5	"		X	4,430	4,650	9,080	3.42	27.4	85.3	160	276	3,530
T1*	8/30/2013	0	0		X	<100	14,000	14,000						17,000
	"	2	Bottom hole	X		<10.0	169	169	<0.05	<0.05	<0.05	<0.15	<0.30	384
	"	4	"	X		<10.0	149	149	-	-	-	-	-	176

**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)	Ethlybenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total						
AH-11	5/30/2013	0-1	0		X	332	163	196						3,650
	"	1-1.5	"	X		-	-	-	-	-	-	-	-	<20.0
	"	2-2.5	"	X		-	-	-	-	-	-	-	-	147
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

(\* ) Results analysed by Cardinal Labs, Hobbs, NM.

## Figures

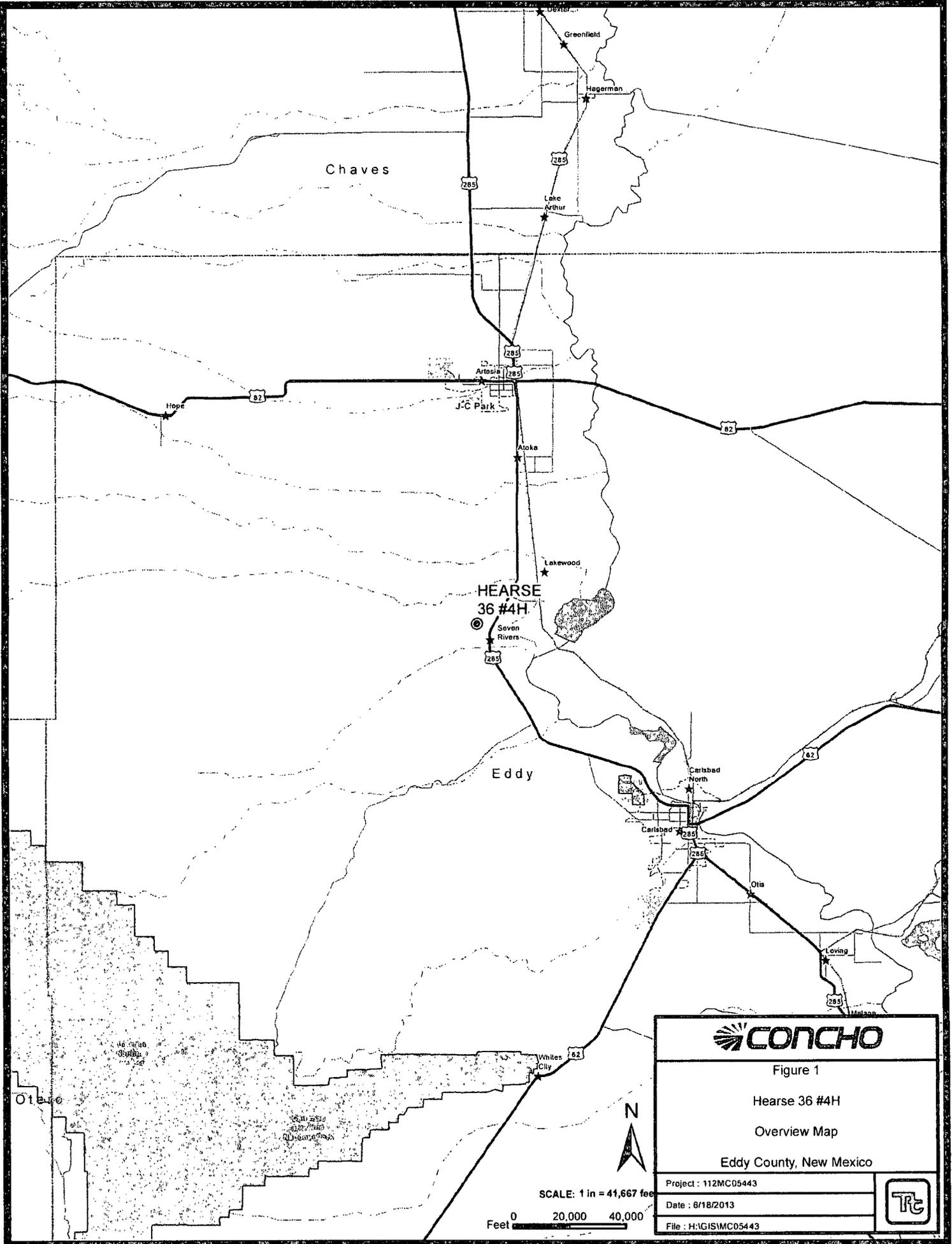
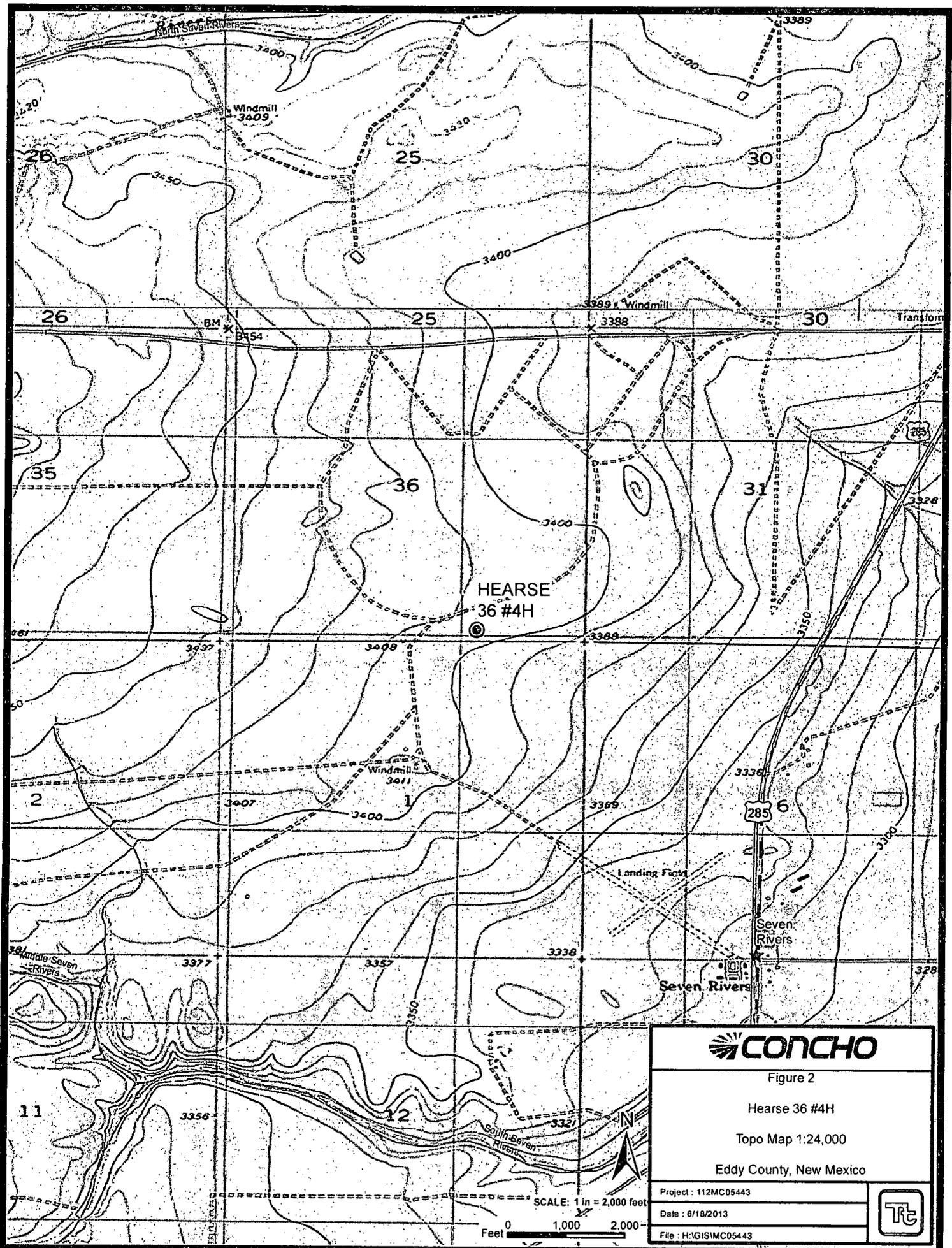


Figure 1	
Hearse 36 #4H	
Overview Map	
Eddy County, New Mexico	
Project: 112MC05443	
Date: 6/18/2013	
File: H:\GIS\MC05443	



**CONCHO**

Figure 2

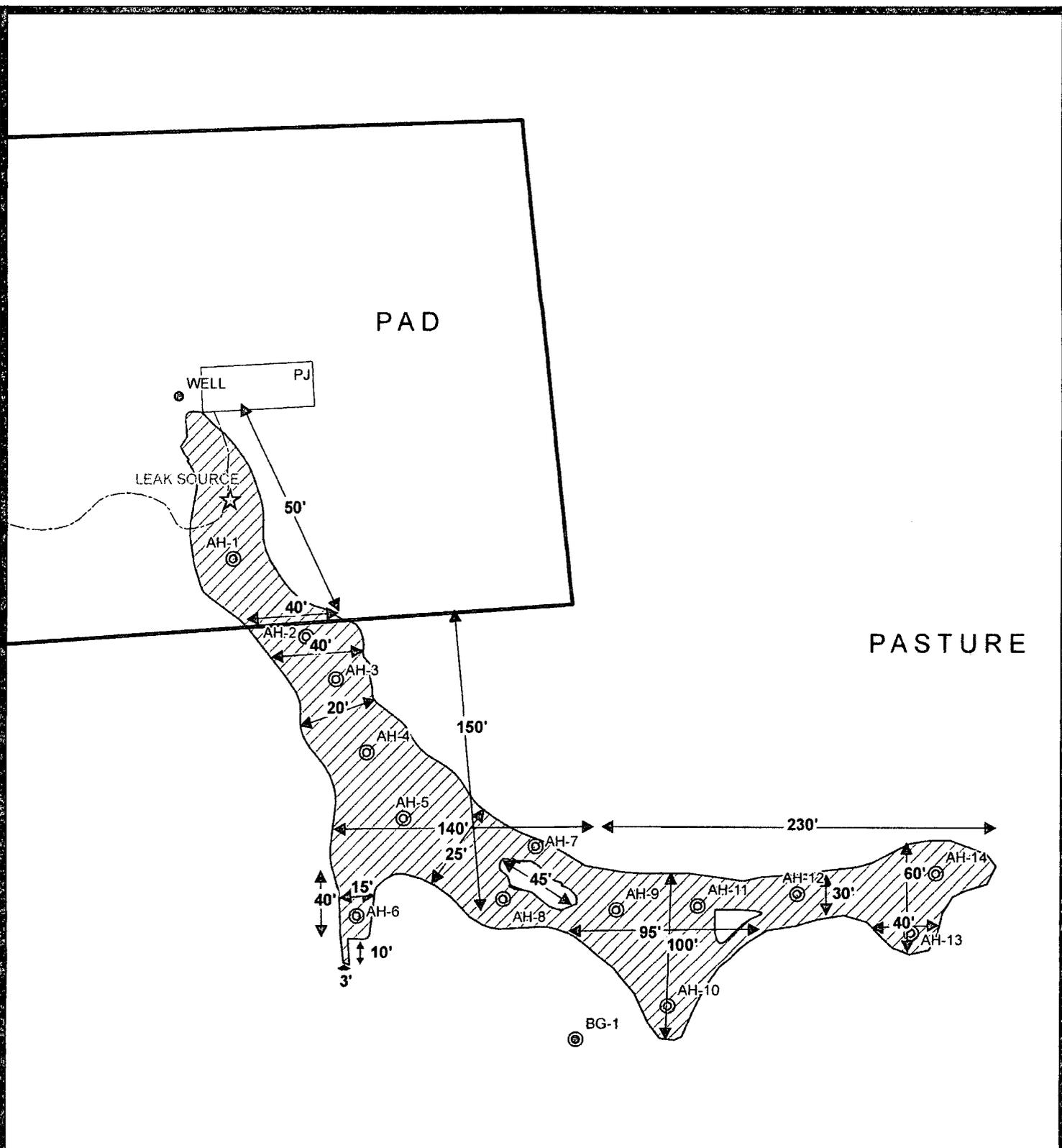
Hearse 36 #4H

Topo Map 1:24,000

Eddy County, New Mexico

Project : 112MC05443	
Date : 6/18/2013	
File : H:\GIS\MC05443	

Drawn By: Isabel Marmotep

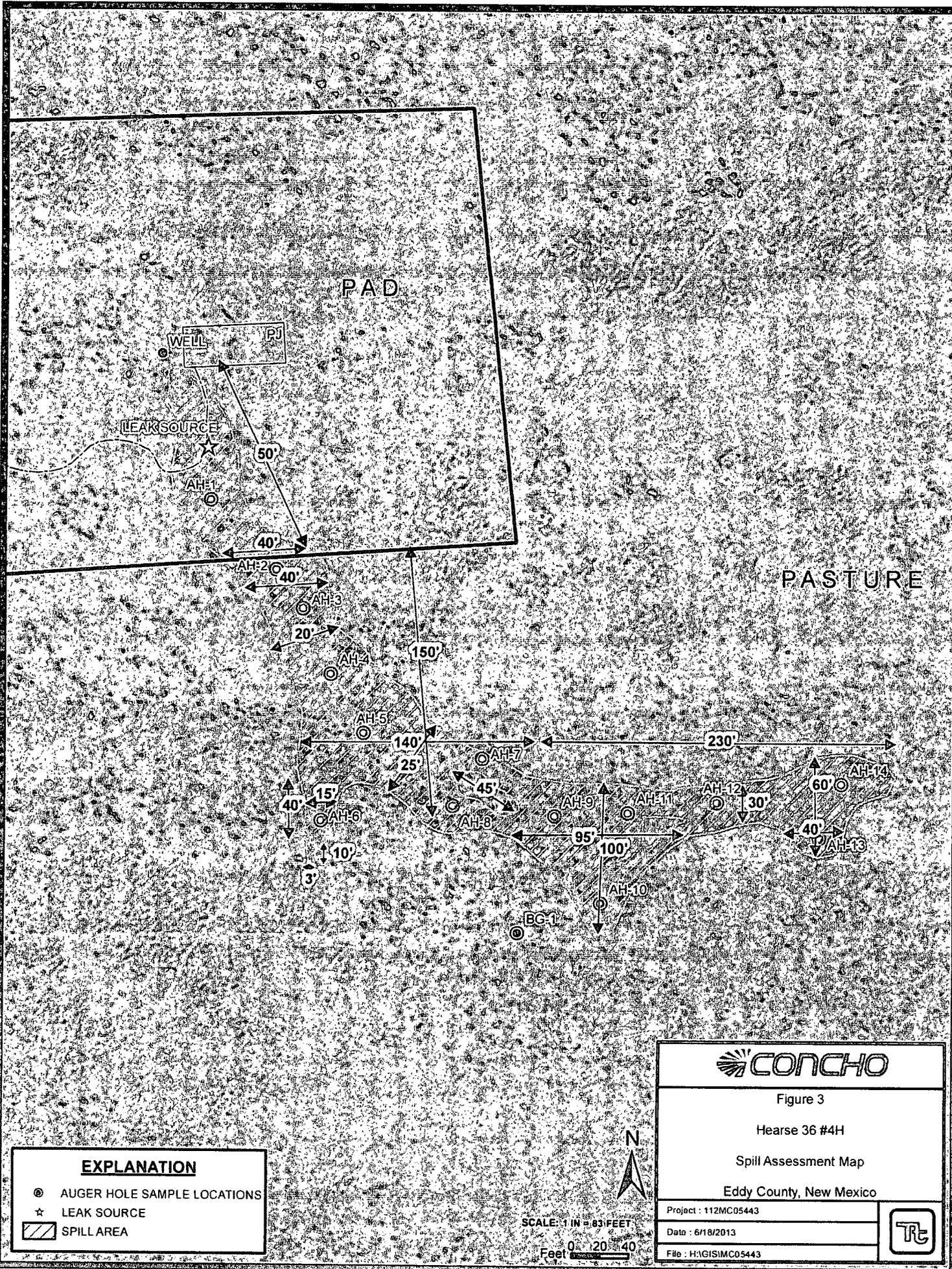


EXPLANATION	
⊙	AUGER HOLE SAMPLE LOCATIONS
☆	LEAK SOURCE
	SPILL AREA



SCALE: 1 IN = 83 FEET  
 Feet 0 20 40

	
Figure 3	
Hearse 36 #4H	
Spill Assessment Map	
Eddy County, New Mexico	
Project : 112MC05443	
Date : 6/18/2013	
File : H:\GIS\MC05443	



**EXPLANATION**

- ⊙ AUGER HOLE SAMPLE LOCATIONS
- ☆ LEAK SOURCE
- ▨ SPILL AREA



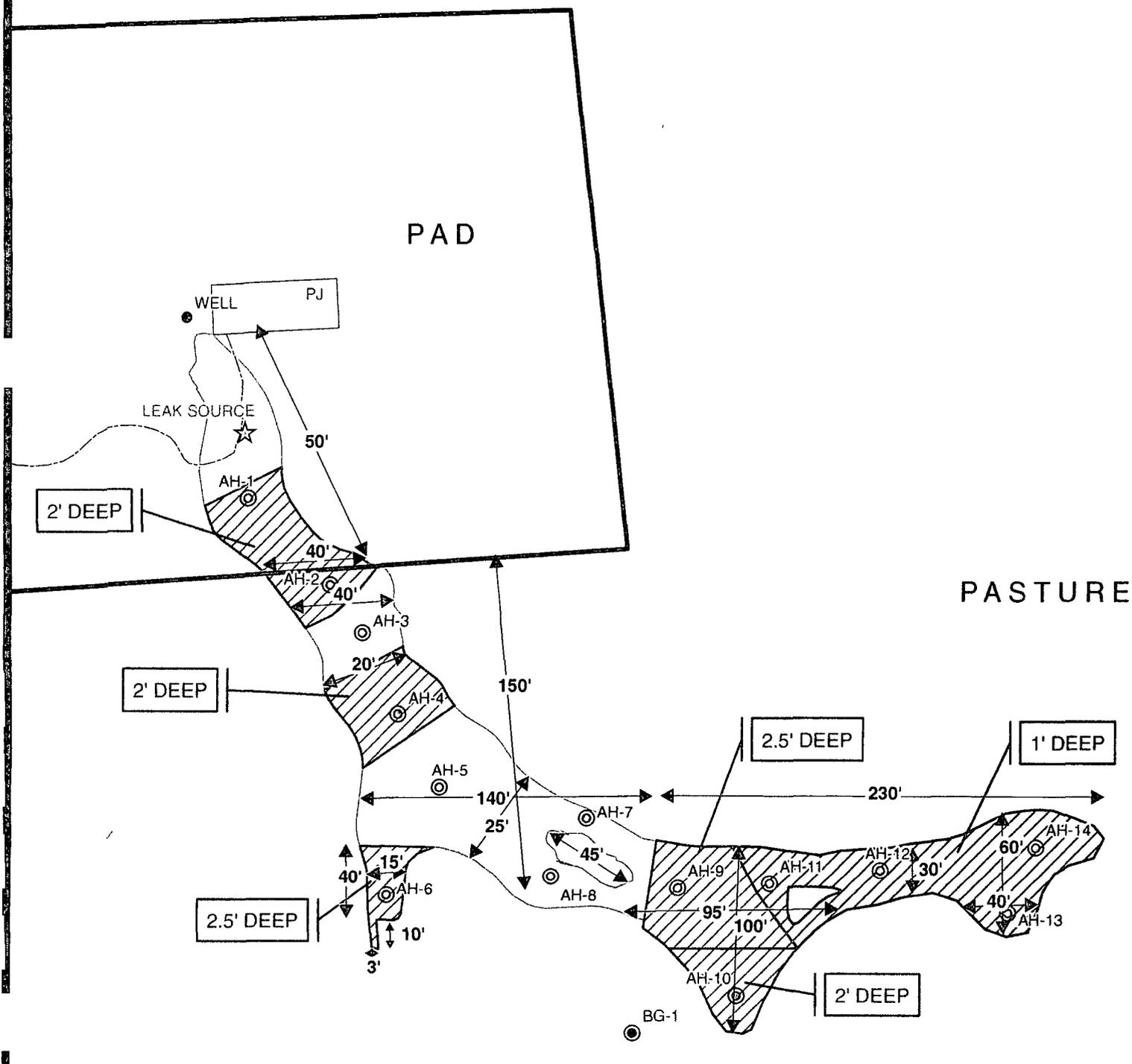
SCALE: 1 IN = 83 FEET  
 Feet 0 20 40

**CONCHO**

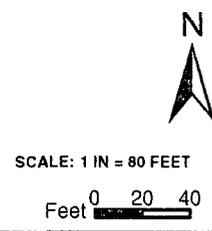
Figure 3  
 Hearse 36 #4H  
 Spill Assessment Map  
 Eddy County, New Mexico

Project : 112MC05443  
 Date : 6/18/2013  
 File : H:\GISIMC05443





EXPLANATION	
⊙	AUGER HOLE SAMPLE LOCATIONS
☆	LEAK SOURCE
▨	EXCAVATED AREAS



<b>CONCHO</b>	
Figure 4	
Hearse 36 #4H	
Excavation Areas & Depths Map	
Eddy County, New Mexico	
Project : 112MC05443	
Date : 9/26/2013	
File : H:\GIS\MC05443	

# 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

Form C-141  
Revised October 10, 2003

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

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

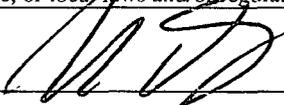
Name of Company	COG Operating LLC	Contact	Pat Ellis
Address	600 W. Illinois Avenue, Midland, TX 79701	Telephone No.	(432) 230-0077
Facility Name	HEARSE 36 STATE #004H	Facility Type	WELL PAD
Surface Owner: State	Mineral Owner	Lease No. (API#) 30-015-39264	

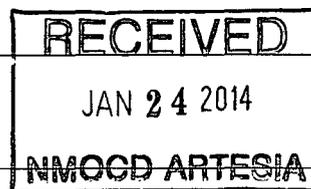
**LOCATION OF RELEASE**

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

Latitude N 32.61068° Longitude W 104.43531°

**NATURE OF RELEASE**

Type of Release: Oil	Volume of Release 40 bbls	Volume Recovered 30 bbls
Source of Release: Casing valve on well head	Date and Hour of Occurrence 05-03-2013	Date and Hour of Discovery 05-03-2013 7:00 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? <b>Mike Bratcher—OCD</b>	
By Whom? Michelle Mullins	Date and Hour 05-03-2013 1:23 pm	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	
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.* Tetra Tech personnel inspected the site and collected samples to define the spill extents. Soil that exceeded the RRAL was removed and hauled away for proper disposal. The site was then brought up to surface grade with clean backfill material. Tetra Tech prepared a closure report and submitted it to NMOCD for review.		
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: Ike Tavarez	Approved by District Supervisor:	
Title: Project Manager	Approval Date:	Expiration Date:
E-mail Address: Ike.Tavarez@TetraTech.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 5-26-13 Phone: (432) 682-4559		



\* Attach Additional Sheets If Necessary

District I  
1625 N. French Dr., Hobbs, NM 88240  
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State of New Mexico  
Energy Minerals and Natural Resources

Oil Conservation Division  
1220 South St. Francis Dr.  
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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
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**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**

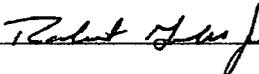
Type of Release	Oil	Volume of Release	40bbbs	Volume Recovered	30bbbs
Source of Release	Casing valve on well head	Date and Hour of Occurrence	05-03-2013	Date and Hour of Discovery	05-03-2013 7:00am
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> 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 40bbbs of oil were released from an open casing valve on the well head. We were able to recover 30bbbs 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: 		<b>OIL CONSERVATION DIVISION</b>	
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:	
Date:	05-14-2013	Phone:	432-661-6601
			Attached <input type="checkbox"/>

\* 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
475	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36
				364	

**18 South 25 East**

6	5	4	3	184	2	175	1	187
7	8	9	155	10	11	12		
18	17	16	15	14	13			
230	20	21	22	23	24			
30	29	28	27	26	25			
31	32	33	34	35	36			
				200				
								270

**18 South 26 East**

6	200	5	95	4	24	3	65	2	50	1
7	8	9	70	10	8	11	14			
18	66	17	16	61	15	14	13			
19	20	21	22	98	23	24				
30	29	28	27	26	25					
31	32	33	34	35	36					
		85								
										19

**19 South 24 East**

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
295	20	21	300	22	23
30	29	28	27	26	25
31	32	33	34	35	36
				322	
					270

**19 South 25 East**

6	5	305	4	3	2	100	1	
7	8	9	260	10	11	12	172	
18	17	83	16	15	59	14	13	
19	20	21	22	23	24			
310	29	28	27	60	26	25	60	
222	31	32	33	34	35	36		
140								SITE

**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		
105	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		
					268		
						131	

**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			
312	100							

**20 South 26 East**

6	66	5	20	4	3	2	1	
7	6	8	9	10	11	12		
18	17	16	15	14	13			
19	20	21	22	23	24			
30	29	28	27	26	25			
180	31	32	33	34	35	52	36	
		61		135				120

-  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 Tavarez  
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 DRO (mg/Kg)	TPH GRO GRO (mg/Kg)
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (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 <sup>1</sup>	<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 <sup>2</sup>	<0.400	<0.400	2.62	2770	299
330808 - AH-9 0-1'	<0.200 <sup>3</sup>	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 <sup>4</sup>	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 <sup>5</sup>	11.2	66.5	139	2770	4270
330820 - AH-13 1-1.5'	<0.0200	<0.0200	<0.0200	0.974	207 <sub>Qr, Qs</sub>	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 <sub>Qr, Qs</sub>	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

<sup>1</sup>Dilution due to hydrocarbons.  
<sup>2</sup>Dilutions due to hydrocarbons.  
<sup>3</sup>Dilutions due to hydrocarbons.  
<sup>4</sup>Dilution due to hydrocarbons.  
<sup>5</sup>Dilution 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		<b>2030</b>	mg/Kg	4

**Sample: 330810 - AH-9 2-2.5'**

Param	Flag	Result	Units	RL
Chloride		<b>3220</b>	mg/Kg	4

**Sample: 330811 - AH-9 2.5-3'**

Param	Flag	Result	Units	RL
Chloride		<b>396</b>	mg/Kg	4

**Sample: 330812 - AH-10 0-1'**

Param	Flag	Result	Units	RL
Chloride		<b>4550</b>	mg/Kg	4

**Sample: 330813 - AH-10 1-1.5'**

Param	Flag	Result	Units	RL
Chloride		<b>3530</b>	mg/Kg	4

**Sample: 330814 - AH-11 0-1'**

Param	Flag	Result	Units	RL
Chloride		<b>3650</b>	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		<b>147</b>	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

September 26, 2013

IKE TAVAREZ

TETRA TECH

1910 N. BIG SPRING STREET

MIDLAND, TX 79705

RE: HEARSE 36 STATE #4 H

Enclosed are the results of analyses for samples received by the laboratory on 08/30/13 13:30.

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

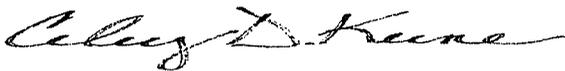
Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

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:**

 TETRA TECH  
 IKE TAVAREZ  
 1910 N. BIG SPRING STREET  
 MIDLAND TX, 79705  
 Fax To: (432) 682-3946

Received:	08/30/2013	Sampling Date:	08/30/2013
Reported:	09/26/2013	Sampling Type:	Soil
Project Name:	HEARSE 36 STATE #4 H	Sampling Condition:	** (See Notes)
Project Number:	112MC05443	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: T 1 (AH-10) 0' (H302100-01)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>17000</b>	16.0	09/03/2013	ND	400	100	400	3.92		
TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	09/03/2013	ND	197	98.4	200	0.223		
<b>DRO &gt;C10-C28</b>	<b>14000</b>	100	09/03/2013	ND	189	94.3	200	1.30		

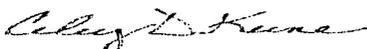
Surrogate: 1-Chlorooctane      89.3 %      65.2-140

Surrogate: 1-Chlorooctadecane      592 %      63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TETRA TECH  
 IKE TAVAREZ  
 1910 N. BIG SPRING STREET  
 MIDLAND TX, 79705  
 Fax To: (432) 682-3946

Received:	08/30/2013	Sampling Date:	08/30/2013
Reported:	09/26/2013	Sampling Type:	Soil
Project Name:	HEARSE 36 STATE #4 H	Sampling Condition:	** (See Notes)
Project Number:	112MCO5443	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

**Sample ID: T 1 (AH-10) 2' (H302100-02)**

BTEX 8021B	mg/kg		Analyzed By: MS				O-04			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	09/26/2013	ND	1.89	94.4	2.00	3.20		
Toluene*	<0.050	0.050	09/26/2013	ND	1.95	97.3	2.00	2.40		
Ethylbenzene*	<0.050	0.050	09/26/2013	ND	2.06	103	2.00	2.62		
Total Xylenes*	<0.150	0.150	09/26/2013	ND	6.20	103	6.00	2.42		
Total BTEX	<0.300	0.300	09/26/2013	ND						

Surrogate: 4-Bromofluorobenzene (PIE) 108 % 89.4-126

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	384	16.0	09/03/2013	ND	400	100	400	3.92		

TPH 8015M	mg/kg		Analyzed By: AR/							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/03/2013	ND	197	98.4	200	0.223		
DRO >C10-C28	169	10.0	09/03/2013	ND	189	94.3	200	1.30		

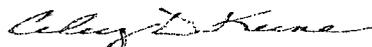
Surrogate: 1-Chlorooctane 93.7 % 65.2-140

Surrogate: 1-Chlorooctadecane 96.7 % 63.6-154

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Analytical Results For:**

 TETRA TECH  
 IKE TAVAREZ  
 1910 N. BIG SPRING STREET  
 MIDLAND TX, 79705  
 Fax To: (432) 682-3946

Received:	08/30/2013	Sampling Date:	08/30/2013
Reported:	09/26/2013	Sampling Type:	Soil
Project Name:	HEARSE 36 STATE #4 H	Sampling Condition:	** (See Notes)
Project Number:	112MC05443	Sample Received By:	Jodi Henson
Project Location:	EDDY COUNTY, NM		

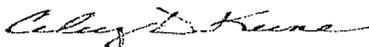
**Sample ID: T 1 (AH-10) 4' (H302100-03)**

Chloride, SM4500CI-B		mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
<b>Chloride</b>	<b>176</b>	16.0	09/03/2013	ND	400	100	400	3.92		
TPH 8015M		mg/kg		Analyzed By: AR/						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	09/03/2013	ND	197	98.4	200	0.223		
<b>DRO &gt;C10-C28</b>	<b>149</b>	10.0	09/03/2013	ND	189	94.3	200	1.30		
<i>Surrogate: 1-Chlorooctane</i>		<i>87.5 %</i>	<i>65.2-140</i>							
<i>Surrogate: 1-Chlorooctadecane</i>		<i>88.9 %</i>	<i>63.6-154</i>							

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

**Notes and Definitions**

- S-04            The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- O-04            This sample was analyzed outside the EPA recommended holding time.
- 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 SM4500C-B does not require samples be received at or below 6°C  
Samples reported on an as received basis (wet) unless otherwise noted on report

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\*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

# Analysis Request of Chain of Custody Record

PAGE: / OF: /



**TETRA TECH**  
 1910 N. Big Spring St.  
 Midland, Texas 79705  
 (432) 682-4559 • Fax (432) 682-3946

ANALYSIS REQUEST  
 (Circle or Specify Method No.)

H302000

CLIENT NAME: COG

SITE MANAGER: Ike Tavares

PROJECT NO.: 112M(05443)

PROJECT NAME: COG / Hearise 36 State #4 H1

LAB I.D. NUMBER	DATE	TIME	MATRIX	COMP.	GRAB
1	8/30		S	X	
2			S	X	
3			S	X	

Edley Co, NM  
 SAMPLE IDENTIFICATION

1 8/30

POT T1 (AH 10) 0'

2

2'

3

4'

NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD				BTEX 8021B	TPH 8015 MOD	TX1005 (Ext. to C35)	PAH 8270	RCRA Metals Ag As Ba Cd Cr Pb Hg Se	TCLP Metals Ag As Ba Cd Vr Pd Hg Se	TCLP Volatiles	TCLP Semi Volatiles	RCI	GC-MS Vol. 8240/8260/624	GC-MS Semi. Vol. 8270/625	PCB's 8080/808	Pest. 808/808	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
		HCL	HNO3	ICE	NONE																		
1				X		X													X				
1				X		X													X				
1				X		X													X				

added 9/25/13

Page 6 of 6

RELINQUISHED BY: (Signature) [Signature] Date: 8-30-13 Time: 1430

RECEIVED BY: (Signature) [Signature] Date: 9/30/13 Time: 1:30

SAMPLED BY: (Print & Initial) [Signature] Date: 8-30-13 Time: 1430

RELINQUISHED BY: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

RECEIVED BY: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

SAMPLE SHIPPED BY: (Circle) FEDEX  BUS  AIRBILL #: \_\_\_\_\_ HAND DELIVERED  UPS  OTHER: \_\_\_\_\_

RELINQUISHED BY: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

RECEIVED BY: (Signature) \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

TETRA TECH CONTACT PERSON: Ike Tavares Results by: \_\_\_\_\_

RECEIVING LABORATORY: Cadogan ADDRESS: \_\_\_\_\_ CITY: Hobbs STATE: NM ZIP: \_\_\_\_\_ CONTACT: \_\_\_\_\_ PHONE: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

RECEIVED BY: (Signature) \_\_\_\_\_

RUSH Charges Authorized: Yes  No

SAMPLE CONDITION WHEN RECEIVED: \_\_\_\_\_

REMARKS: \* Straight from field \* RUSH!! 9c #54

Please fill out all copies - Laboratory retains Yellow copy - Return Original copy to Tetra Tech - Project Manager retains Pink copy - Accounting receives Gold copy.

Ryan Reich - ryan.reich@tetratech.com // Ike Tavares - ike.tavares@tetratech.com