

SITE INFORMATION

Report Type: Closure Report

General Site Information

Site:	Mesilla State #3 Tank Battery		
Company:	COG Operating LLC		
Section, Township and Range	T-17S R-30E Sec. 16 Unit H		
Lease Number:	B-2103		
County:	Eddy County		
GPS:	32.83727° N	103.96921° W	
Surface Owner:	State		
Mineral Owner:			
Directions:	From the intersection of Hwy 529 and Goat Roper Road (Loco Hills, NM), travel North 0.7 miles, turn right 0.5 miles, turn left 0.3 miles to location.		

Release Data:

Date Released:	9/3/2010
Type Release:	BS&W
Source of Contamination:	High winds broke support brace, for PVC leg of heater treater
Fluid Released:	60 bbls
Fluids Recovered:	50 bbls

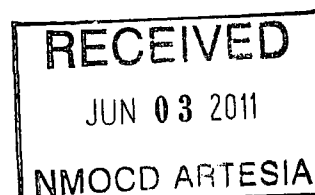
Official Communication:

Name:	Pat Ellis	Kim Dorey
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) 631-0348
Fax:	(432) 684-7137	
Email:	pellis@conchoresources.com	kim.dorey@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





TETRA TECH

May 23, 2011

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

**Re: Closure Report for the COG Operating LLC., Mesilla State #3 ,
Unit H, Section 16, 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 Mesilla State #3 located in Unit H, Section 16, Township 17 South, Range 30 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.83727°, W 103.96921°. 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 September 3, 2010, and released approximately sixty (60) barrels of basic sediment and water (BS&W). The spill was caused when high winds broke a support brace on the PVC water leg of the heater treater causing the PVC line to break. COG personnel replaced the broken PVC line with a steel line. Fifty (50) barrels of standing fluids were recovered. The spill initiated from the battery and breached the facility dike impacting the pad area measuring approximately 175' x 175'. The spill migrated off the south pad into the pasture, impacting an area approximately 20' by 20'. The initial and final C-141 forms are enclosed in Appendix A.

Groundwater

No water wells were listed within Section 16. According to the NMOCD groundwater map, the average depth to groundwater in this area is greater than 300' below surface. The groundwater data is shown in

Tetra Tech

1910 North Big Spring, Midland, TX 79705

Tel 432.682.4559

Fax 432.682.3946

www.tetratech.com



Appendix B. 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 September 22, 2010, Tetra Tech personnel inspected and sampled the spill area. A total of seven (7) auger holes (AH-1 through AH-7) 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, all of the submitted samples were below the RRAL for TPH and BTEX. Auger holes (AH-2, AH-4 and AH-5) had slight chloride concentrations at the surface (0-1') of 327 mg/kg, 206 mg/kg and 818 mg/kg, respectively. The chloride concentrations declined below reporting limit of <200 at 1-1.5' below surface. The remaining auger holes were not vertically defined, with bottom hole chloride concentrations of 3,910 mg/kg at 1-1.5' (AH-1), 9,580 mg/kg at 6-6.5' (AH-6), and 1,510 mg/kg at 5-5.5' (AH-7).

On December 1, 2010, Tetra Tech personnel supervised the installation of three soil borings (SB-1, SB-2 and SB-3) utilizing an air rotary drilling rig. Soil samples were collected to define the impact of the chloride concentrations in the vicinity of AH-1, AH-6 and AH-7. Referring to Table 1, elevated chloride concentrations significantly declined with depth at 7' (SB-1), 3' (SB-2) and 40' (SB-3). The soil boring locations are shown on Figure 3.



Remedial Work and Closure Request

Tetra Tech personnel supervised the excavation of the site from February 22 through 24, 2011. The soil remediation was performed according to the approved work plan. The excavations included four separate areas within the tank battery and pad location. The locations, approximate dimensions, and excavation depths are shown on Figure 4.

Approximately 875 yards³ were removed and hauled to CRI Inc. for proper disposal. Photos of the excavation are attached. The excavation depths are highlighted in Table 1.

Once excavated, Tetra Tech collected bottom hole confirmation samples (CS-1 through CS-5), as shown on Figure 4. The confirmation sample results are summarized in Table 1. Based on the results, NMOCD requested the bottom of the excavation near CS-1 be lined to cap the area. A 40 mil liner was installed at 4' below surface and backfilled with clean material to grade. A copy of the C-141 (Final) is included in Appendix A.

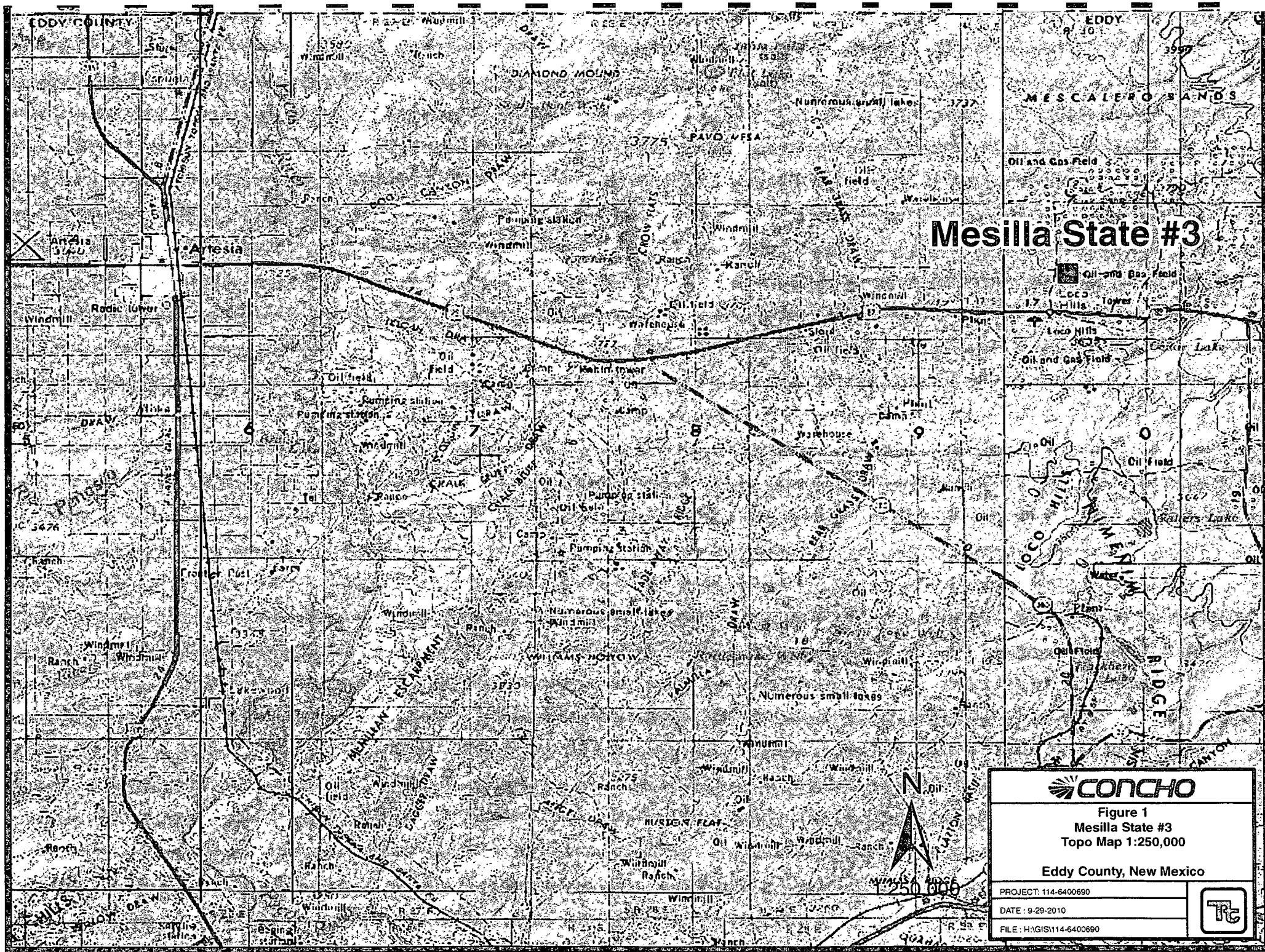
Based on the remedial activities performed at this site, COG request closure of this site. If you require any additional information or have any questions or comments concerning this report, please call at (432) 682-4559.

Respectfully submitted,
TETRA TECH

Ike Tavaréz
Senior Project Manager

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

FIGURES



Mesilla State #3

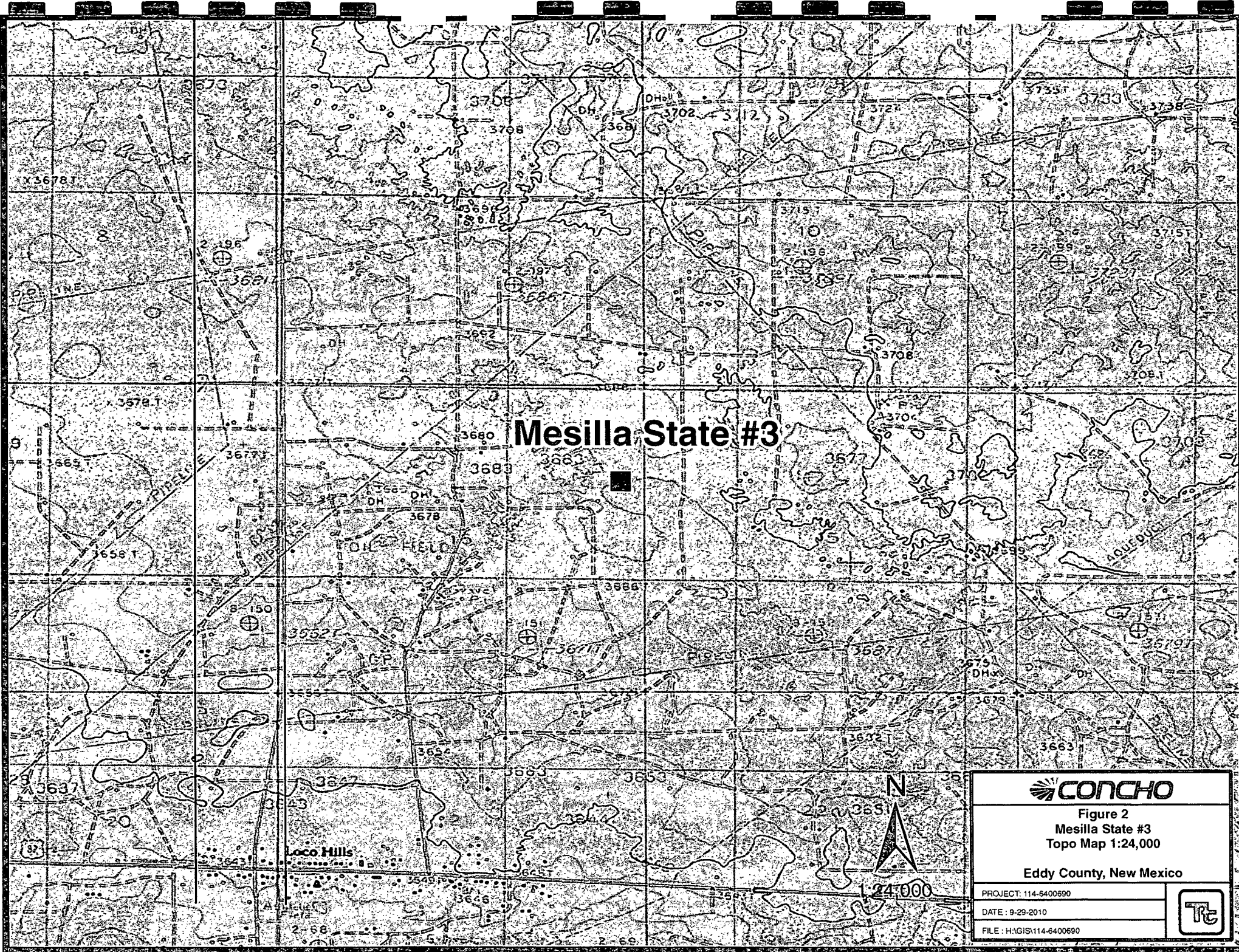
CONCHO

Figure 1
Mesilla State #3
Topo Map 1:250,000

Eddy County, New Mexico

PROJECT: 114-6400690
DATE: 9-29-2010
FILE: H:\GIS\114-6400690





Mesilla State #3



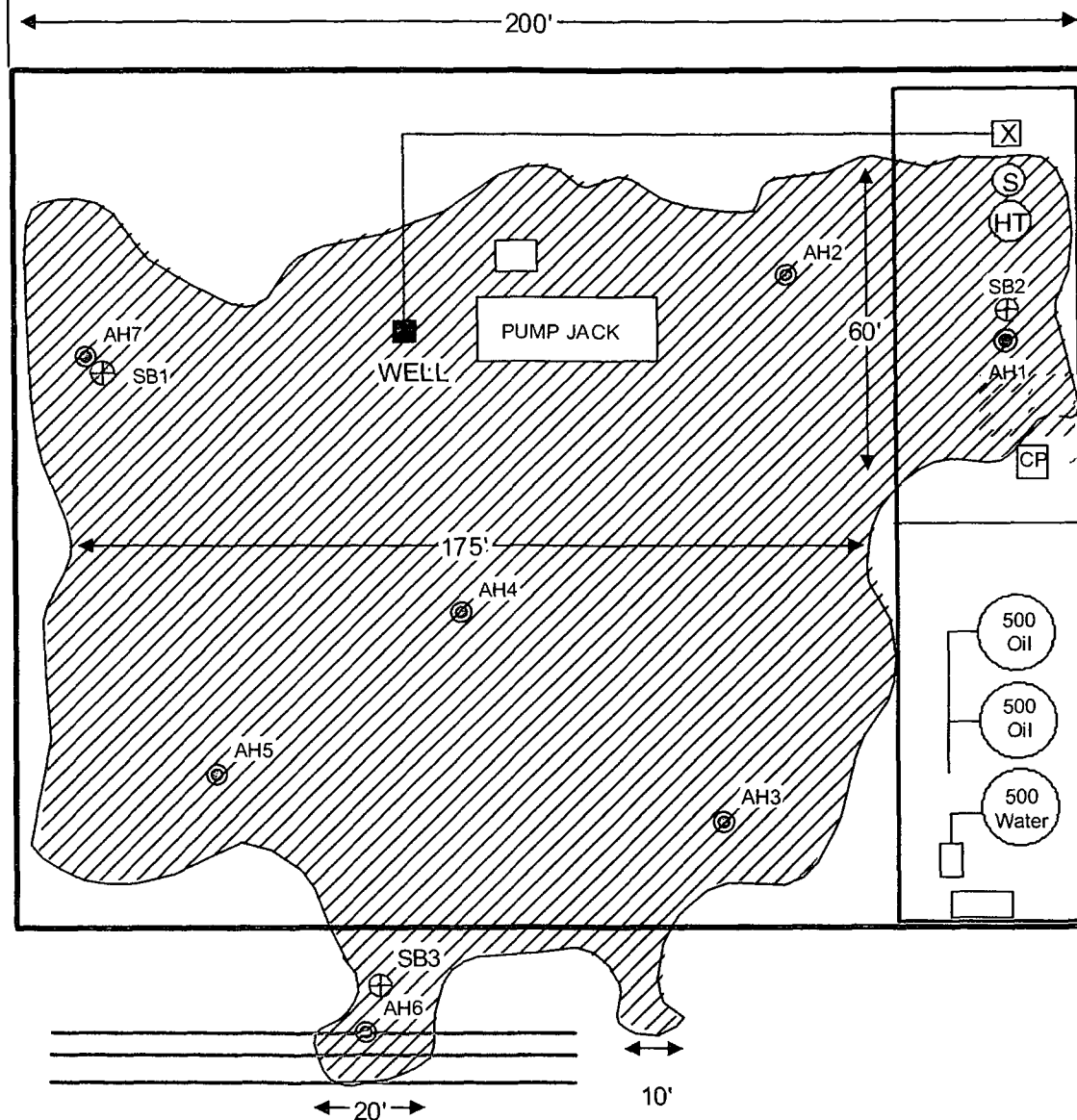
Figure 2
Mesilla State #3
Topo Map 1:24,000

Eddy County, New Mexico

PROJECT: 114-6400690
DATE: 9-29-2010
FILE: H:\GIS\114-6400690



LEASE ROAD



175'

CONCHO

Figure 3
Mesilla State #3
Site Assessment Map
Eddy County, New Mexico

PROJECT: 114-6400690

DATE: 9-29-2010

FILE: H:\GIS\114-6400690

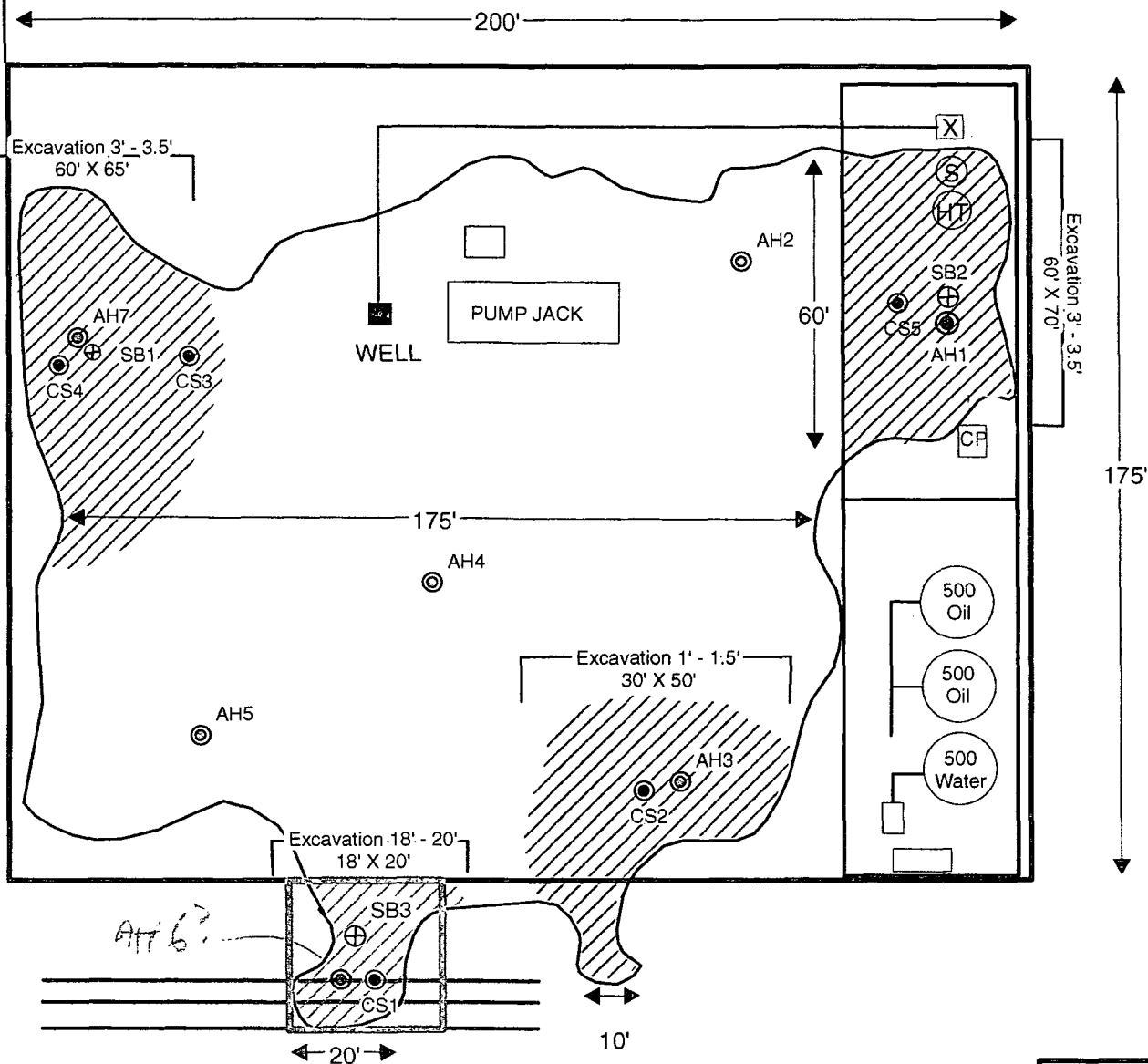


NOT TO SCALE

Legend

- Spill Assessment Area
- Auger Hole Sample
- Soil Bore Sample
- Flowline
- FireWall

LEASE ROAD



EXPLANATION

- ⊙ Auger Hole Sample
- ⊕ Soil Bore Sample
- ⊙ Confirmation Sample
- Flowline
- Liner
- ▢ Firewall



NOT TO SCALE



Figure 4
Mesilla State #3
Excavation Map
Eddy County, New Mexico

PROJECT: 114-6400690

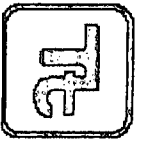
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FILE: H:\GIS\114-6400690

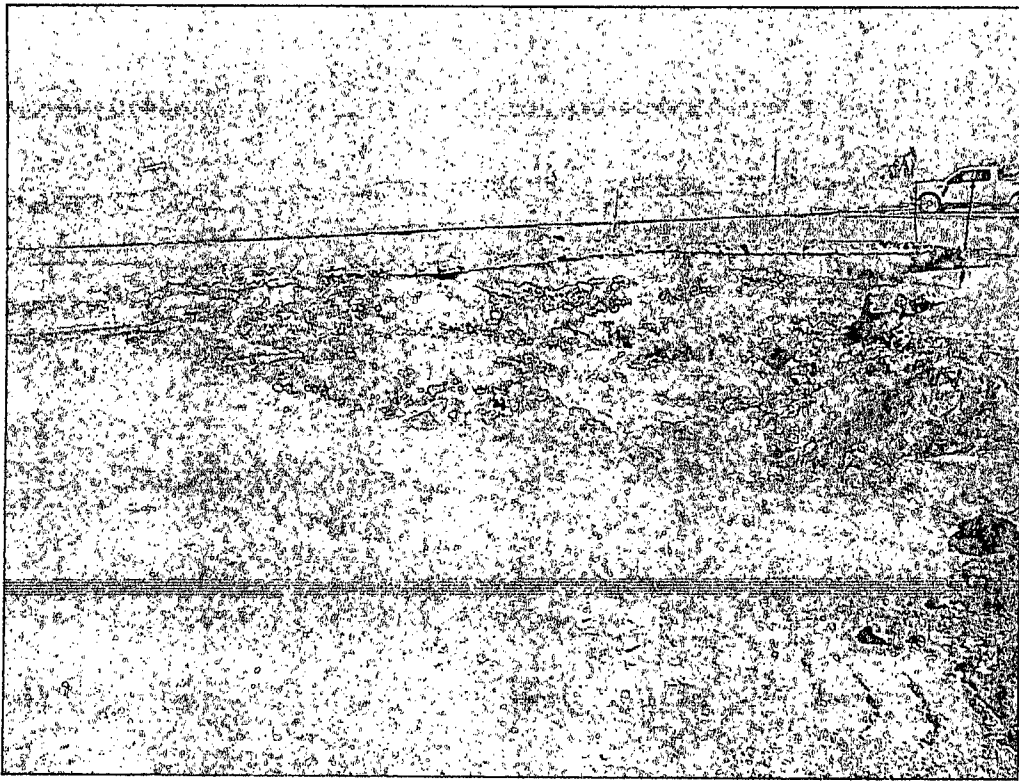


PHOTOGRAPHS

COG Operating LLC
Mesilla State #3 Tank Battery
Eddy County, New Mexico



TETRA TECH



Excavated 3' and 5' near SB-1



Area near SB-1



Liner installed at 4' BGS near SB-3

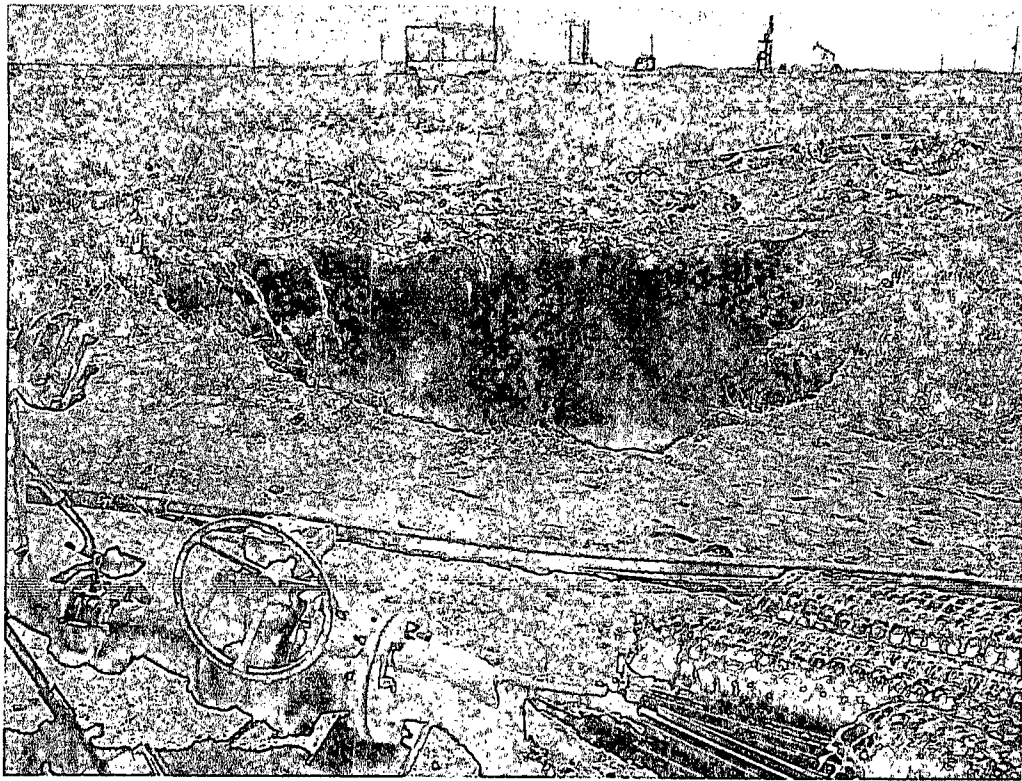


Completed liner installation

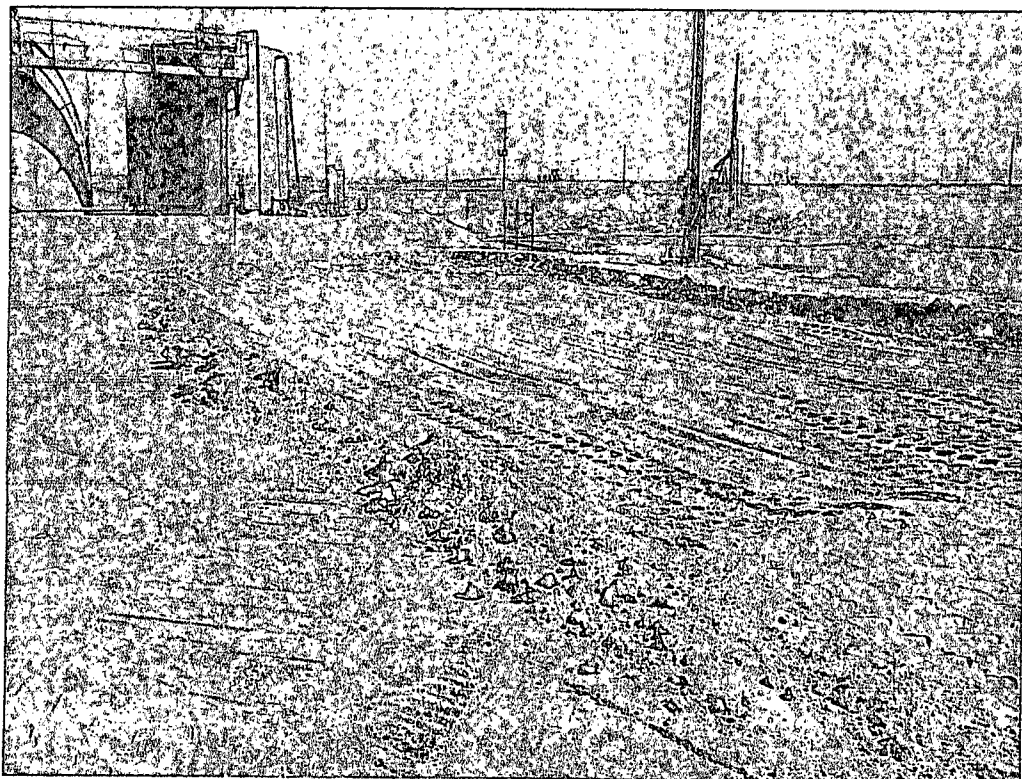
COG Operating LLC
Mesilla State #3 Tank Battery
Eddy County, New Mexico



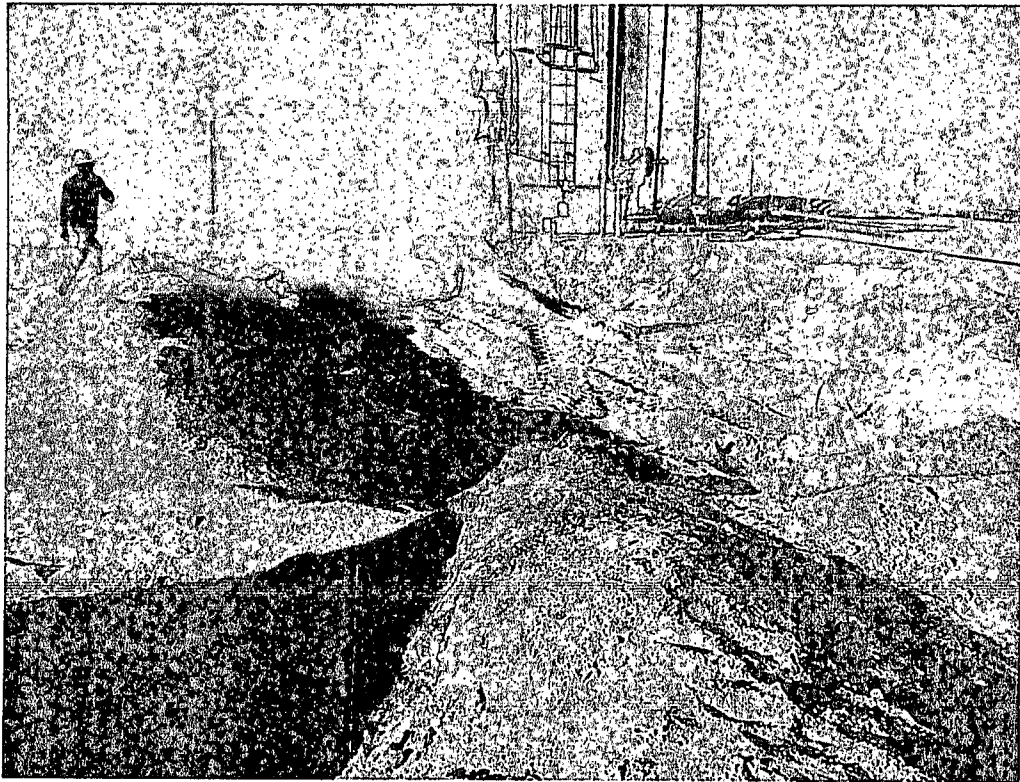
TETRA TECH



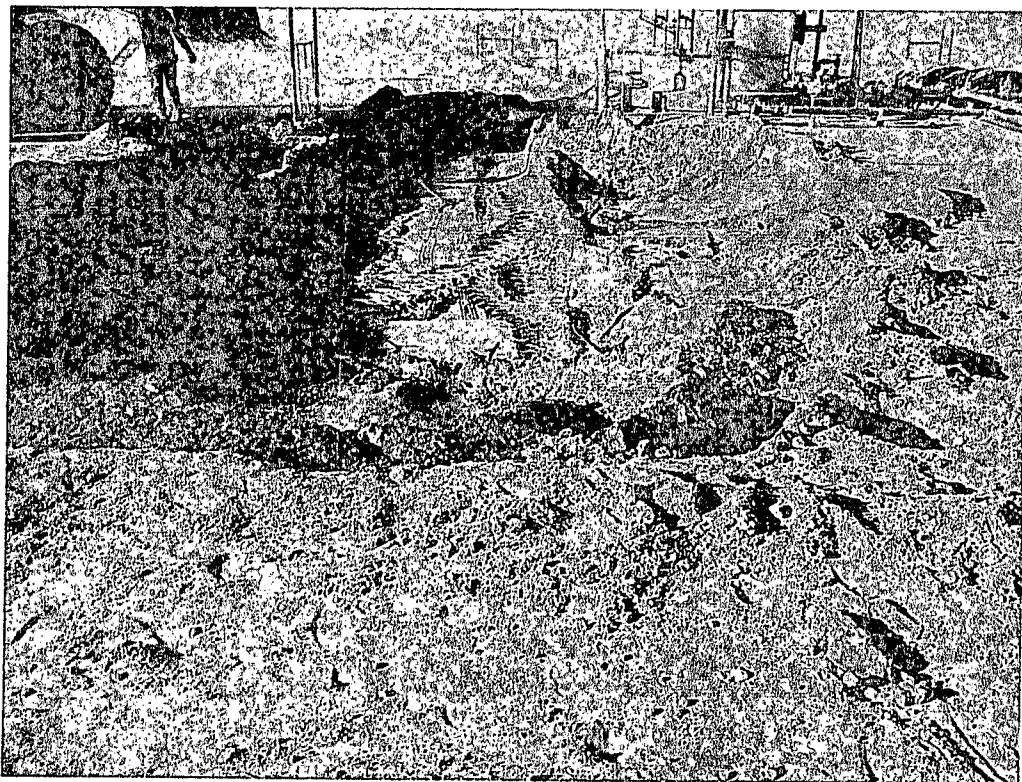
Near SB-3 – Excavated Approximately 19'



Excavated 1-1.5' near AH-3



Excavation inside battery near SB-2



Approximately 2-3' removed near SB-2

TABLES

Table 1
COG Operating LLC.
MESILLA STATE #3 TANK BATTERY
Eddy County, New Mexico

COG Operating LLC.

MESILLA STATE #3 TANK BATTERY

Eddy County, New Mexico

[illegible]

Table 1
COG Operating LLC.
MESILLA STATE #3 TANK BATTERY
Eddy County, New Mexico

[illegible]

Table 1
COG Operating LLC.
MESILLA STATE #3 TANK BATTERY
Eddy County, New Mexico

[illegible]

Table 1
COG Operating LLC.
MESILLA STATE #3 TANK BATTERY
Eddy 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)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total					
AH-7	9/22/2010	0-1'			X	<1.00	<50.0	<50.0	-	-	-	-	4,600
	"	1-1.5'			X	-	-	-	-	-	-	-	651
	"	2-2.5'			X	-	-	-	-	-	-	-	570
	"	3-3.5'			X	-	-	-	-	-	-	-	1,730
	"	4-4.5'			X	-	-	-	-	-	-	-	1,360
	"	5-5.5'			X	-	-	-	-	-	-	-	1,510
SB-3	12/1/2010	0-1'			X	-	-	-	-	-	-	-	4,630
	"	3'			X	-	-	-	-	-	-	-	5,340
	"	5'			X	-	-	-	-	-	-	-	347
	"	7'		X		-	-	-	-	-	-	-	<200
	"	10'		X		-	-	-	-	-	-	-	<200
	"	15'		X		-	-	-	-	-	-	-	233
	"	20'		X		-	-	-	-	-	-	-	<200
CS-3	2/22/2011	3-3.5'		X		-	-	-	-	-	-	-	<200
CS-4	2/22/2011	5-5.5'		X		-	-	-	-	-	-	-	<200

BEB Below Excavation Bottom

(--) Not Analyzed

☐ Excavation depths

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 1300 Midland, Texas 79701	Telephone No. (432) 685-4332
Facility Name Mesilla State #3 Tank Battery	Facility Type Well

Surface Owner: State	Mineral Owner	Lease No. B-2103
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LOCATION OF RELEASE

Unit Letter H	Section 16	Township 17S	Range 30E	Feet from the	North/South Line	Feet from the	East/West Line	County Eddy
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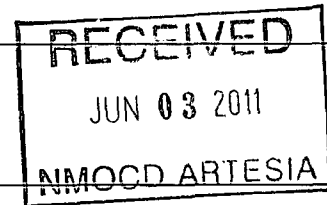
Latitude N 32 50.233° Longitude W 103 58.155°

NATURE OF RELEASE

Type of Release: BS & W	Volume of Release 60 bbls	Volume Recovered 50 bbls
Source of Release: PVC water leg	Date and Hour of Occurrence 9/3/10	Date and Hour of Discovery 9/3/10 8:30 a.m.
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Mike Bratcher - OCD	
By Whom? Josh Russo	Date and Hour 9/3/10 8:30 a.m.	
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.*

N/A



Describe Cause of Problem and Remedial Action Taken.*

High winds moved a support bracing a PVC water leg causing the leg to break. The PVC leg was replaced with a steel leg.

Describe Area Affected and Cleanup Action Taken.*

Tetra Tech inspected site and collected samples to define spills extent. Soil with elevated chloride concentrations was removed and hauled away for proper disposal. A liner was installed. Site was then brought up to surface grade with clean backfill material. Tetra Tech prepared closure report and submitted 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:		OIL CONSERVATION DIVISION	
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:	
Date: Phone: (432) 682-4559		Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

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

State of New Mexico
Energy Minerals and Natural Resources

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

0690
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	Mesilla State #3 Tank Battery	Facility Type	Tank Battery

Surface Owner	State	Mineral Owner		Lease No.	B-2103
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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
H	16	17S	30E					Eddy

Latitude 32 50.233 Longitude 103 58.155

NATURE OF RELEASE

Type of Release	BS & W	Volume of Release	60bbbls	Volume Recovered	50bbbls
Source of Release	PVC water leg	Date and Hour of Occurrence	09/03/2010	Date and Hour of Discovery	09/03/2010 8:30 a.m.
Was Immediate Notice Given?	If YES, To Whom?				
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	Mike Bratcher—OCD				
By Whom?	Josh Russo	Date and Hour	09/03/2010 8:30 a.m.		
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.				
<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No					

If a Watercourse was Impacted, Describe Fully.*

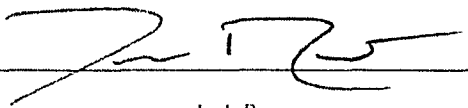
Describe Cause of Problem and Remedial Action Taken.*

High wind speed moved the supports bracing the PVC water leg and broke it in half causing the release. The PVC water leg has been replaced with a new steel water leg.

Describe Area Affected and Cleanup Action Taken.*

Initially we released 60bbbls of BS&W from the broken water leg and we were able to recover 50bbbls with a vacuum truck. The spill area covered a portion of the well pad measuring approximately 200' x 200' from the battery towards the pumping unit. All standing fluid has been recovered. The well pad has been scraped and the contaminated pad material has been hauled to the appropriate disposal facility. (The closest well location to the release is the Mesilla State #3, this well is located on the same pad as the tank battery, (API#) 30-015-34538). Tetra Tech will sample the spill site arc to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.

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

Signature: 		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: 09/15/2010	Phone: 432-212-2399		

* Attach Additional Sheets If Necessary

APPENDIX B

Water Well Data
Average Depth to Groundwater (ft)
COG -Mesilla State #3 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	20	21	22	23	24
110	29	28	27	26	25
30	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
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	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	23	24
30	29	210	28	27	25
31	32	208'	34	35	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	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	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
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

APPENDIX C

Summary Report

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

Report Date: October 13, 2010

Work Order: 10092407



Project Location: Eddy County, NM
Project Name: COG/Mesilla State #3 TB
Project Number: 114-6400690

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
245696	AH-1 0-1'	soil	2010-09-22	00:00	2010-09-23
245697	AH-1 1-1.5'	soil	2010-09-22	00:00	2010-09-23
245698	AH-2 0-1'	soil	2010-09-22	00:00	2010-09-23
245699	AH-2 1-1.5'	soil	2010-09-22	00:00	2010-09-23
245700	AH-2 2-2.5'	soil	2010-09-22	00:00	2010-09-23
245701	AH-2 3-3.5'	soil	2010-09-22	00:00	2010-09-23
245702	AH-2 3.5-4'	soil	2010-09-22	00:00	2010-09-23
245703	AH-3 0-1'	soil	2010-09-22	00:00	2010-09-23
245704	AH-3 1-1.5'	soil	2010-09-22	00:00	2010-09-23
245705	AH-3 2-2.5'	soil	2010-09-22	00:00	2010-09-23
245706	AH-3 3-3.5'	soil	2010-09-22	00:00	2010-09-23
245707	AH-3 4-4.5'	soil	2010-09-22	00:00	2010-09-23
245708	AH-3 5-5.5'	soil	2010-09-22	00:00	2010-09-23
245709	AH-4 0-1'	soil	2010-09-22	00:00	2010-09-23
245710	AH-4 1-1.5'	soil	2010-09-22	00:00	2010-09-23
245711	AH-4 2-2.5'	soil	2010-09-22	00:00	2010-09-23
245712	AH-4 3-3.5'	soil	2010-09-22	00:00	2010-09-23
245713	AH-5 0-1'	soil	2010-09-22	00:00	2010-09-23
245714	AH-5 1-1.5'	soil	2010-09-22	00:00	2010-09-23
245715	AH-5 2-2.5'	soil	2010-09-22	00:00	2010-09-23
245716	AH-5 3-3.5'	soil	2010-09-22	00:00	2010-09-23
245717	AH-5 4-4.5'	soil	2010-09-22	00:00	2010-09-23
245718	AH-6 0-1'	soil	2010-09-22	00:00	2010-09-23
245719	AH-6 1-1.5'	soil	2010-09-22	00:00	2010-09-23
245720	AH-6 2-2.5'	soil	2010-09-22	00:00	2010-09-23
245721	AH-6 3-3.5'	soil	2010-09-22	00:00	2010-09-23
245722	AH-6 4-4.5'	soil	2010-09-22	00:00	2010-09-23
245723	AH-6 5-5.5'	soil	2010-09-22	00:00	2010-09-23
245724	AH-6 6-6.5'	soil	2010-09-22	00:00	2010-09-23
245725	AH-7 0-1'	soil	2010-09-22	00:00	2010-09-23

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
245726	AH-7 1-1.5'	soil	2010-09-22	00:00	2010-09-23
245727	AH-7 2-2.5'	soil	2010-09-22	00:00	2010-09-23
245728	AH-7 3-3.5'	soil	2010-09-22	00:00	2010-09-23
245729	AH-7 4-4.5'	soil	2010-09-22	00:00	2010-09-23
245730	AH-7 5-5.5'	soil	2010-09-22	00:00	2010-09-23

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)
245696 - AH-1 0-1'	<0.0100	<0.0100	<0.0100	<0.0100	71.6	41.3
245698 - AH-2 0-1'					<50.0	<1.00
245703 - AH-3 0-1'	<0.0100	<0.0100	<0.0100	<0.0100	<50.0	<1.00
245709 - AH-4 0-1'					<50.0	<1.00
245713 - AH-5 0-1'	<0.0100	<0.0100	<0.0100	<0.0100	<50.0	<1.00
245718 - AH-6 0-1'	<0.0100	<0.0100	<0.0100	<0.0100	167	6.89
245725 - AH-7 0-1'					<50.0	<1.00

Sample: 245696 - AH-1 0-1'

Param	Flag	Result	Units	RL
Chloride		3680	mg/Kg	4.00

Sample: 245697 - AH-1 1-1.5'

Param	Flag	Result	Units	RL
Chloride		3910	mg/Kg	4.00

Sample: 245698 - AH-2 0-1'

Param	Flag	Result	Units	RL
Chloride		327	mg/Kg	4.00

Sample: 245699 - AH-2 1-1.5'

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

Sample: 245700 - AH-2 2-2.5'

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

Sample: 245701 - AH-2 3-3.5'

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

Sample: 245702 - AH-2 3.5-4'

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

Sample: 245703 - AH-3 0-1'

Param	Flag	Result	Units	RL
Chloride		2420	mg/Kg	4.00

Sample: 245704 - AH-3 1-1.5'

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

Sample: 245705 - AH-3 2-2.5'

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

Sample: 245706 - AH-3 3-3.5'

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

Sample: 245707 - AH-3 4-4.5'

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

Sample: 245708 - AH-3 5-5.5'

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

Sample: 245709 - AH-4 0-1'

Param	Flag	Result	Units	RL
Chloride		206	mg/Kg	4.00

Sample: 245710 - AH-4 1-1.5'

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

Sample: 245711 - AH-4 2-2.5'

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

Sample: 245712 - AH-4 3-3.5'

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

Sample: 245713 - AH-5 0-1'

Param	Flag	Result	Units	RL
Chloride		818	mg/Kg	4.00

Sample: 245714 - AH-5 1-1.5'

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

Sample: 245715 - AH-5 2-2.5'

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

Sample: 245716 - AH-5 3-3.5'

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

Sample: 245717 - AH-5 4-4.5'

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

Sample: 245718 - AH-6 0-1'

Param	Flag	Result	Units	RL
Chloride		7400	mg/Kg	4.00

Sample: 245719 - AH-6 1-1.5'

Param	Flag	Result	Units	RL
Chloride		1790	mg/Kg	4.00

Sample: 245720 - AH-6 2-2.5'

Param	Flag	Result	Units	RL
Chloride		1520	mg/Kg	4.00

Sample: 245721 - AH-6 3-3.5'

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

Sample: 245722 - AH-6 4-4.5'

Param	Flag	Result	Units	RL
Chloride		5540	mg/Kg	4.00

Sample: 245723 - AH-6 5-5.5'

Param	Flag	Result	Units	RL
Chloride		7580	mg/Kg	4.00

Sample: 245724 - AH-6 6-6.5'

Param	Flag	Result	Units	RL
Chloride		9580	mg/Kg	4.00

Sample: 245725 - AH-7 0-1'

Param	Flag	Result	Units	RL
Chloride		4600	mg/Kg	4.00

Sample: 245726 - AH-7 1-1.5'

Param	Flag	Result	Units	RL
Chloride		651	mg/Kg	4.00

Sample: 245727 - AH-7 2-2.5'

Param	Flag	Result	Units	RL
Chloride		570	mg/Kg	4.00

Sample: 245728 - AH-7 3-3.5'

Param	Flag	Result	Units	RL
Chloride		1730	mg/Kg	4.00

Sample: 245729 - AH-7 4-4.5'

Param	Flag	Result	Units	RL
Chloride		1360	mg/Kg	4.00

Sample: 245730 - AH-7 5-5.5'

Param	Flag	Result	Units	RL
Chloride		1510	mg/Kg	4.00

Summary Report

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

Report Date: December 10, 2010

Work Order: 10120608



Project Location: Eddy County, NM
Project Name: COG/Mesilla State #3 TB
Project Number: 114-6400690

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
252360	SB-1 0-1'	soil	2010-12-01	00:00	2010-12-03
252361	SB-1 3'	soil	2010-12-01	00:00	2010-12-03
252362	SB-1 5'	soil	2010-12-01	00:00	2010-12-03
252363	SB-1 7'	soil	2010-12-01	00:00	2010-12-03
252364	SB-1 10'	soil	2010-12-01	00:00	2010-12-03
252365	SB-1 15'	soil	2010-12-01	00:00	2010-12-03
252366	SB-1 20'	soil	2010-12-01	00:00	2010-12-03
252367	SB-2 3'	soil	2010-12-01	00:00	2010-12-03
252368	SB-2 5'	soil	2010-12-01	00:00	2010-12-03
252369	SB-2 7'	soil	2010-12-01	00:00	2010-12-03
252370	SB-2 10'	soil	2010-12-01	00:00	2010-12-03
252371	SB-2 15'	soil	2010-12-01	00:00	2010-12-03
252372	SB-2 20'	soil	2010-12-01	00:00	2010-12-03
252373	SB-3 0-1'	soil	2010-12-01	00:00	2010-12-03
252374	SB-3 3'	soil	2010-12-01	00:00	2010-12-03
252375	SB-3 5'	soil	2010-12-01	00:00	2010-12-03
252376	SB-3 7'	soil	2010-12-01	00:00	2010-12-03
252377	SB-3 10'	soil	2010-12-01	00:00	2010-12-03
252378	SB-3 15'	soil	2010-12-01	00:00	2010-12-03
252379	SB-3 20'	soil	2010-12-01	00:00	2010-12-03
252380	SB-3 25'	soil	2010-12-01	00:00	2010-12-03
252381	SB-3 30'	soil	2010-12-01	00:00	2010-12-03
252382	SB-3 40'	soil	2010-12-01	00:00	2010-12-03
252383	SB-3 50'	soil	2010-12-01	00:00	2010-12-03
252384	SB-3 60'	soil	2010-12-01	00:00	2010-12-03

Sample: 252360 - SB-1 0-1'

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

Param	Flag	Result	Units	RL
Chloride		4630	mg/Kg	4.00

Sample: 252361 - SB-1 3'

Param	Flag	Result	Units	RL
Chloride		5340	mg/Kg	4.00

Sample: 252362 - SB-1 5'

Param	Flag	Result	Units	RL
Chloride		347	mg/Kg	4.00

Sample: 252363 - SB-1 7'

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

Sample: 252364 - SB-1 10'

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

Sample: 252365 - SB-1 15'

Param	Flag	Result	Units	RL
Chloride		233	mg/Kg	4.00

Sample: 252366 - SB-1 20'

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

Sample: 252367 - SB-2 3'

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

Sample: 252368 - SB-2 5'

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

Sample: 252369 - SB-2 7'

Param	Flag	Result	Units	RL
Chloride		399	mg/Kg	4.00

Sample: 252370 - SB-2 10'

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

Sample: 252371 - SB-2 15'

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

Sample: 252372 - SB-2 20'

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

Sample: 252373 - SB-3 0-1'

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

Sample: 252374 - SB-3 3'

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

Sample: 252375 - SB-3 5'

Param	Flag	Result	Units	RL
Chloride		1510	mg/Kg	4.00

Sample: 252376 - SB-3 7'

Param	Flag	Result	Units	RL
Chloride		1420	mg/Kg	4.00

Sample: 252377 - SB-3 10'

Param	Flag	Result	Units	RL
Chloride		3010	mg/Kg	4.00

Sample: 252378 - SB-3 15'

Param	Flag	Result	Units	RL
Chloride		4420	mg/Kg	4.00

Sample: 252379 - SB-3 20'

Param	Flag	Result	Units	RL
Chloride		5970	mg/Kg	4.00

Sample: 252380 - SB-3 25'

Param	Flag	Result	Units	RL
Chloride		6310	mg/Kg	4.00

Sample: 252381 - SB-3 30'

Param	Flag	Result	Units	RL
Chloride		3800	mg/Kg	4.00

Sample: 252382 - SB-3 40'

Param	Flag	Result	Units	RL
Chloride		312	mg/Kg	4.00

Sample: 252383 - SB-3 50'

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

Sample: 252384 - SB-3 60'

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

Summary Report

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

Report Date: March 17, 2011

Work Order: 11030105



Project Location: Eddy Co., NM
Project Name: COG/Mesilla State #3
Project Number: 114-6400090

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
259094	CS-1	soil	2011-02-22	00:00	2011-02-28
259095	CS-2	soil	2011-02-22	00:00	2011-02-28
259096	CS-3	soil	2011-02-23	00:00	2011-02-28
259097	CS-4	soil	2011-02-23	00:00	2011-02-28
259098	CS-5	soil	2011-02-23	00:00	2011-02-28

Sample: 259094 - CS-1

Param	Flag	Result	Units	RL
Chloride		4710	mg/Kg	4.00

Sample: 259095 - CS-2

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

Sample: 259096 - CS-3

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

Sample: 259097 - CS-4

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

Sample: 259098 - CS-5

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