

SITE INFORMATION

Report Type: Work Plan

General Site Information

Site:	State I #16				
Company:	COG Operating LLC				
Section, Township and Range	Sec 29	T17S	R29E		
Lease Number:	API-30-015-03187				
County:	Eddy County				
GPS:	32.80083° N			104.08898° W	
Surface Owner:	State				
Mineral Owner:					
Directions:	From Hwy 82 and Hagerman Cutoff Rd. in Loco Hills travel 6.5 miles west on Hwy 82, turn left onto lease road and travel 0.9 miles, turn left and travel 100 feet to site.				

Release Data

Date Released:	4/6/2011
Type Release:	Produced Water
Source of Contamination:	Flowline failure
Fluid Released:	60 bbls
Fluids Recovered:	0 bbls

Official Communication

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

Ranking Criteria

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

RECEIVED

AUG 11 2011

NMOCD ARTESIA



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July 6, 2011

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

**Re: Work Plan for the COG Operating LLC., State I #16 Flow Line,
Unit P, Section 29, Township 17 South, Range 29 East, Eddy
County, New Mexico.**

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC. (COG) to assess a spill at the State I #16 Flow Line located in Unit P, Section 29, Township 17 South, Range 29 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.80083°, W 104.08898°. The site location is shown on Figures 1 and 2.

Background

On April 6, 2011, COG discovered the flow line leak and released approximately sixty (60) barrels of produced fluids into the pasture. To alleviate the problem, COG personnel repaired the flow line. Zero (0) barrels of standing fluids were recovered. The spill initiated east of the pad affecting an area in the pasture 105' x 70' (tapering to 40'). The initial C-141 form is enclosed in Appendix A.

Groundwater

The Geology and Groundwater Resources of Eddy County, New Mexico (Report 3) did show one well in Section 29 with a depth to groundwater of 210' below surface. According to the NMOCD groundwater map, the average depth to groundwater in this area appears to be around 150' below surface. The well data are 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 February 19, 2011, Tetra Tech personnel inspected and sampled the spill area. A total of five (5) auger holes (AH-1 through AH-5) 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 C. The results of the sampling are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, all auger hole samples were below the RRAL for TPH and BTEX. Elevated chloride concentrations were detected in majority of the auger holes. Auger holes (AH-1 and AH-5) showed the deepest chloride impact at the site, with chloride declining at 7.0' to 9.0' below surface. The areas of auger holes (AH-3 and AH-4) showed a shallow impact (0-1') to the soils, with chloride concentration of 20,500 mg/kg and 4,830 mg/kg, respectively. Auger hole (AH-2) did not show a significant chloride impact the soils.

Work Plan

COG proposes the removal of impacted material to the depth as highlighted in Table 1 and shown on Figure 4. As shown in Table 1, the proposed excavation depths will range from 1.0' to 9.0' below surface in majority of the impacted areas. Based on the results, the area of AH-1 will be excavated to the appropriate depth and trenched using a backhoe to define the vertical extent of the chloride impact.



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Based on site formation, 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. If the depths are not reached or if deeper impact is encountered, a 40 mil liner will be installed at depth of 4.0 below surface to cap the impacted area.

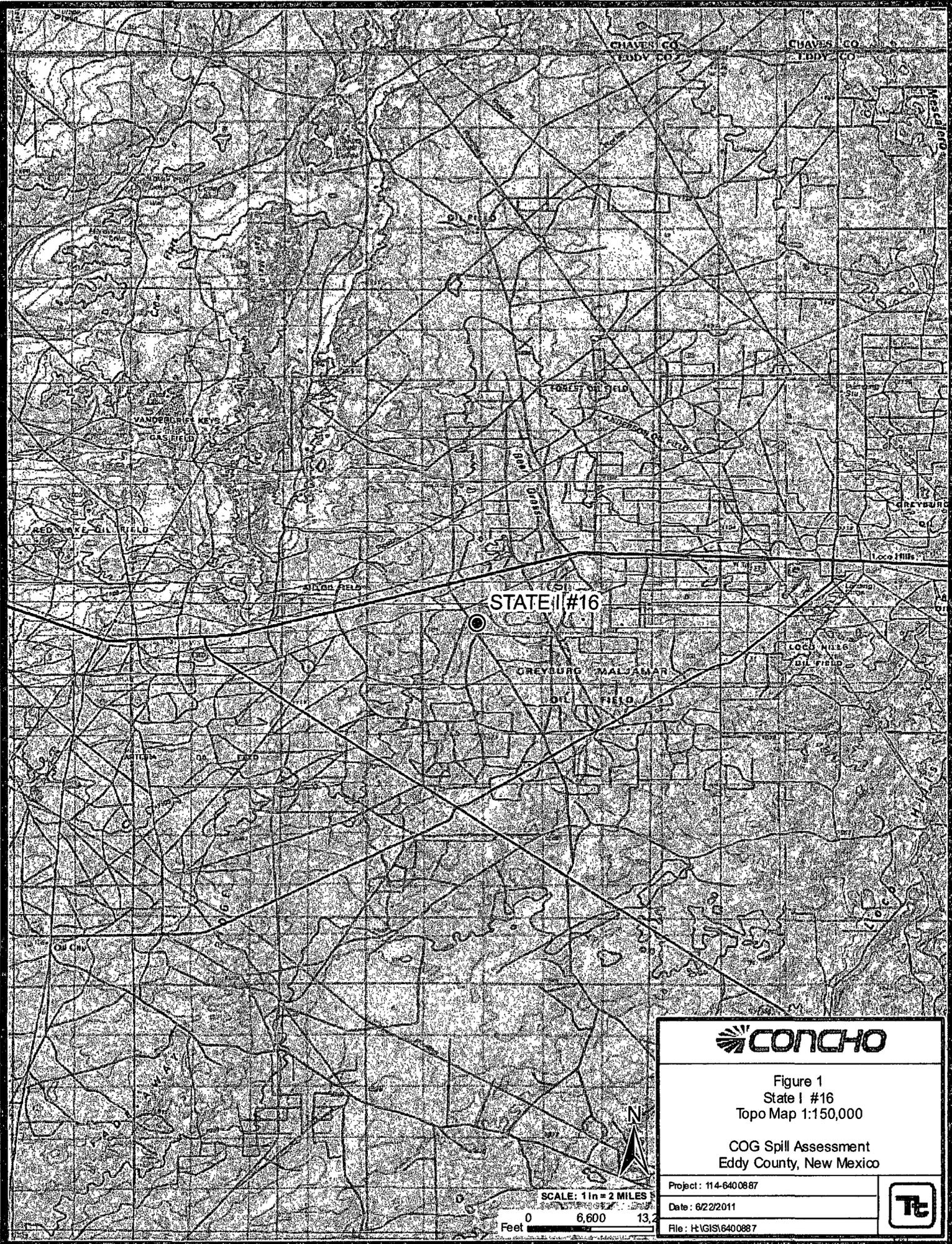
If you have any questions or comments concerning the assessment or the proposed remediation activities for this site, please call me at (432) 682-4559.

Respectfully submitted,
TETRA TECH

Ike Tavares, PG
Project Manager

cc: Pat Ellis – COG
cc:

Figures



CONCHO

Figure 1
 State I #16
 Topo Map 1:150,000

COG Spill Assessment
 Eddy County, New Mexico

Project: 114-6400887
 Date: 6/22/2011
 File: H:\GIS\6400887



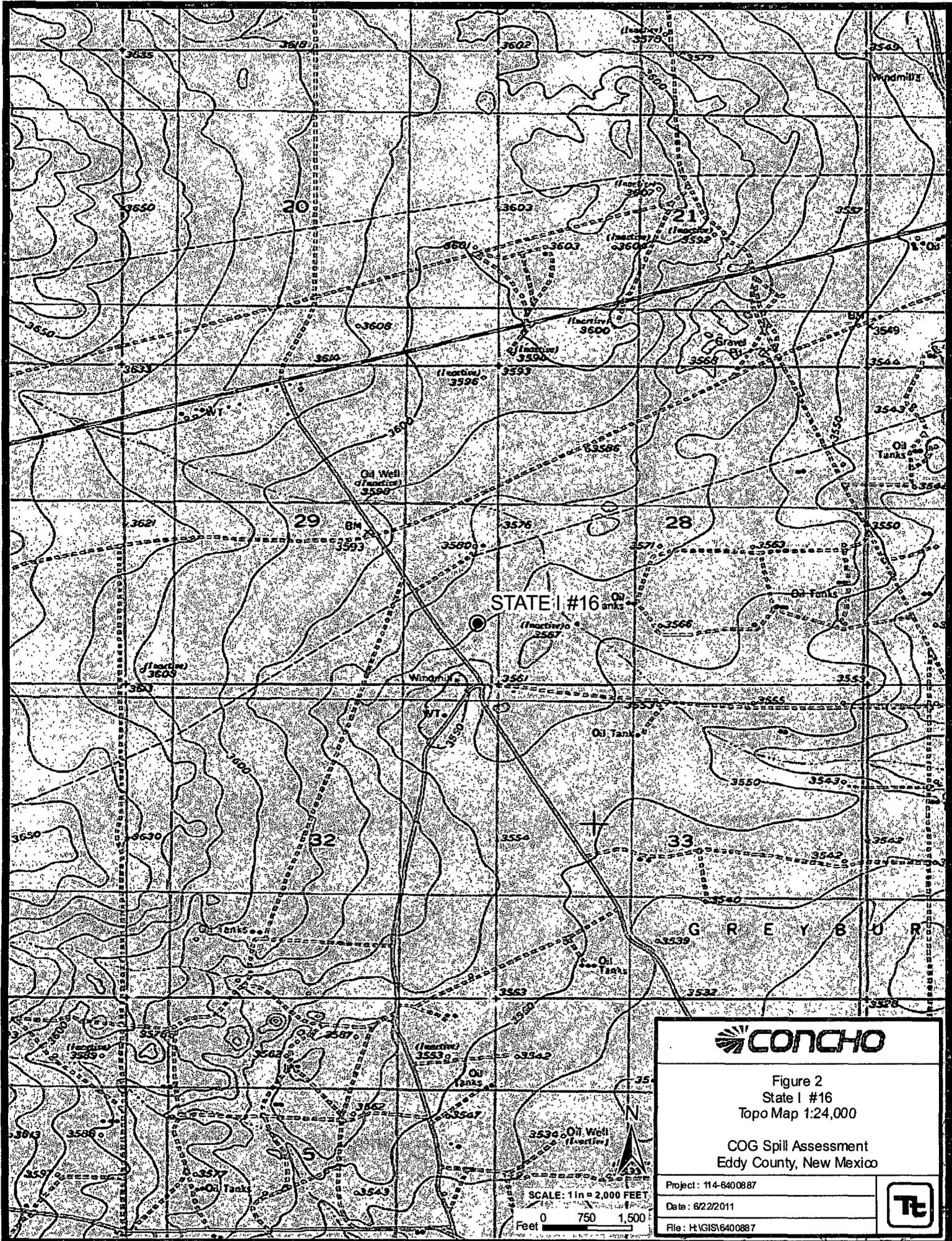


Figure 2
State I #16
Topo Map 1:24,000

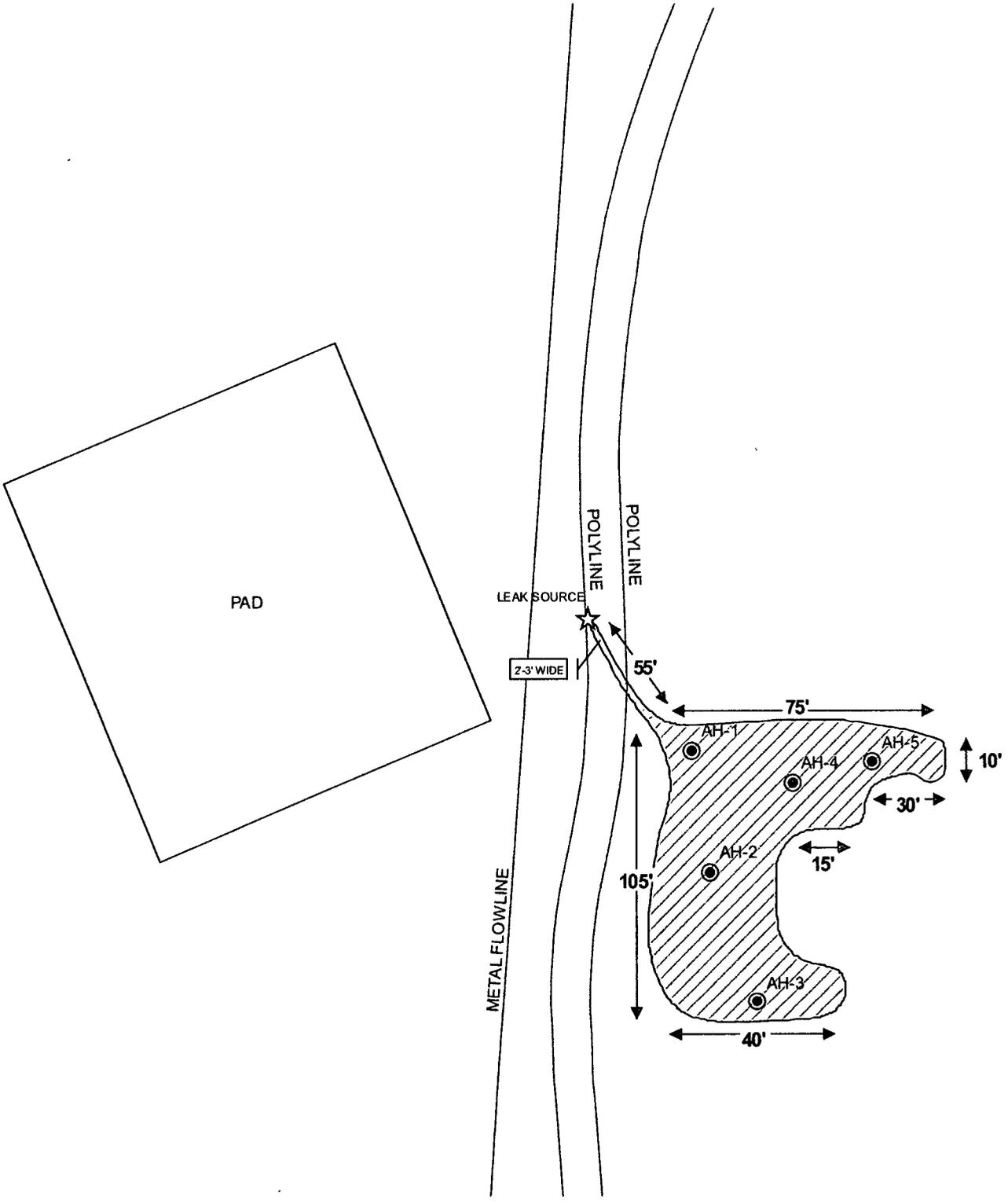
COG Spill Assessment
Eddy County, New Mexico

Project: 114-6400887

Date: 6/22/2011

File: H:\GIS\6400887



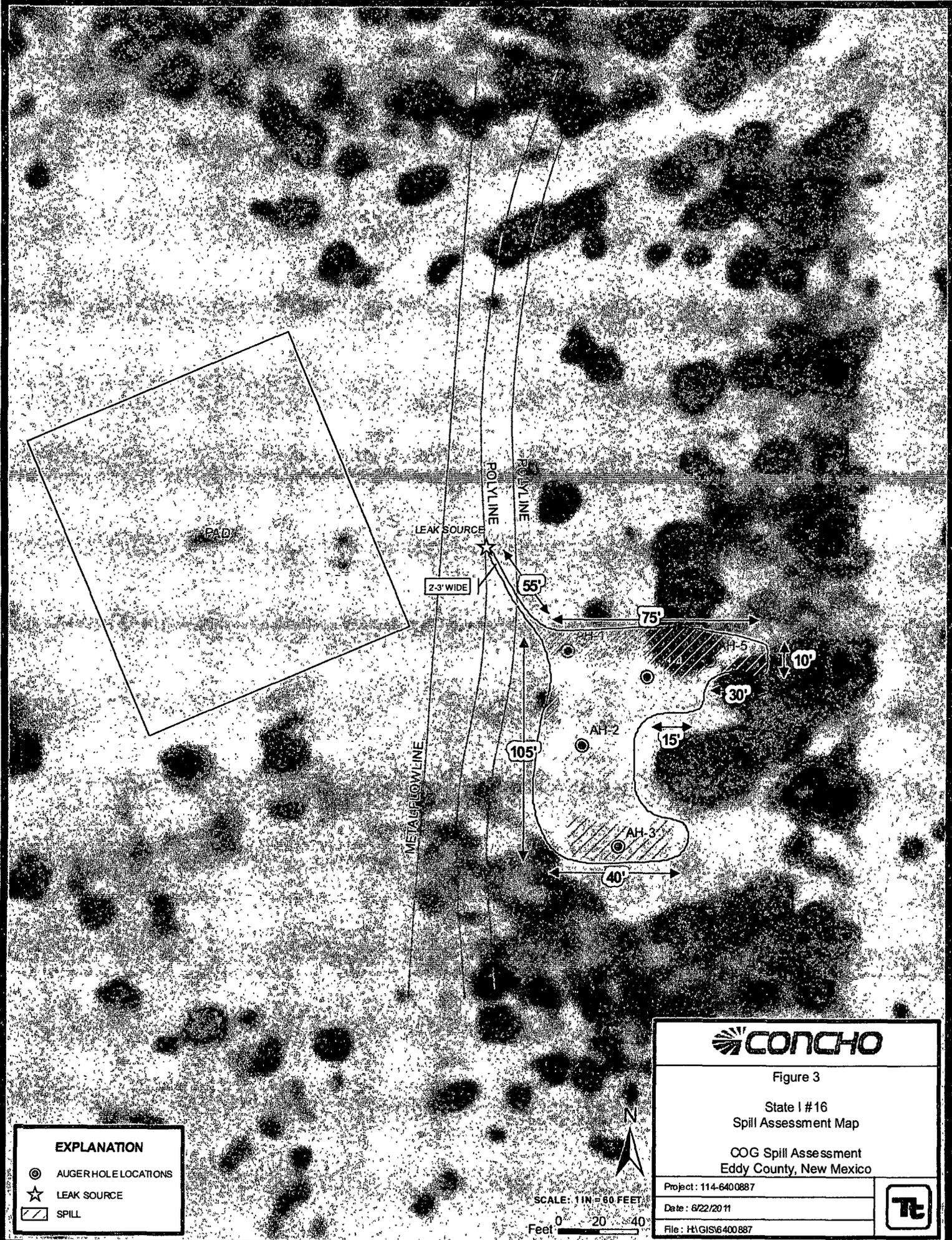


EXPLANATION	
●	AUGER HOLE LOCATIONS
☆	LEAK SOURCE
▨	SPILL

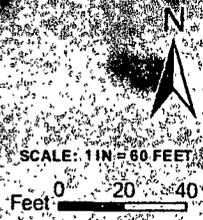


SCALE: 1IN = 60 FEET
 Feet 0 20 40

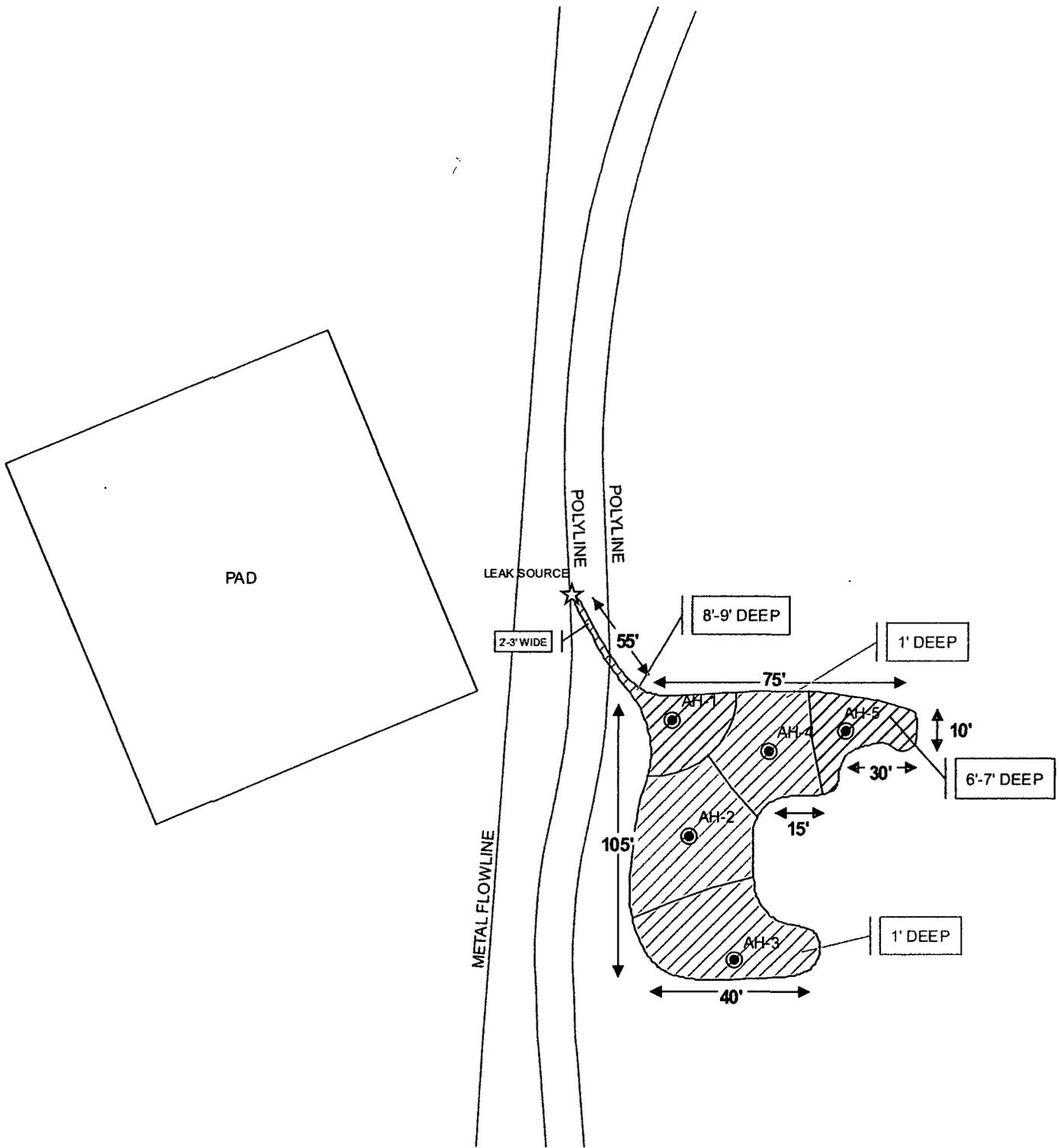
Figure 3	
State I #16 Spill Assessment Map	
COG Spill Assessment Eddy County, New Mexico	
Project: 114-6400887	
Date: 6/22/2011	
File: H:\GIS\16400887	



EXPLANATION	
⊙	AUGER HOLE LOCATIONS
☆	LEAK SOURCE
▨	SPILL



CONCHO	
Figure 3	
State I #16	
Spill Assessment Map	
COG Spill Assessment	
Eddy County, New Mexico	
Project: 114-6400887	
Date: 6/22/2011	
File: H:\GIS\6400887	



EXPLANATION	
●	AUGER HOLE LOCATIONS
☆	LEAK SOURCE
▨	PROPOSED EXCAVATION DEPTHS



SCALE: 1 IN = 60 FEET
 Feet 0 20 40

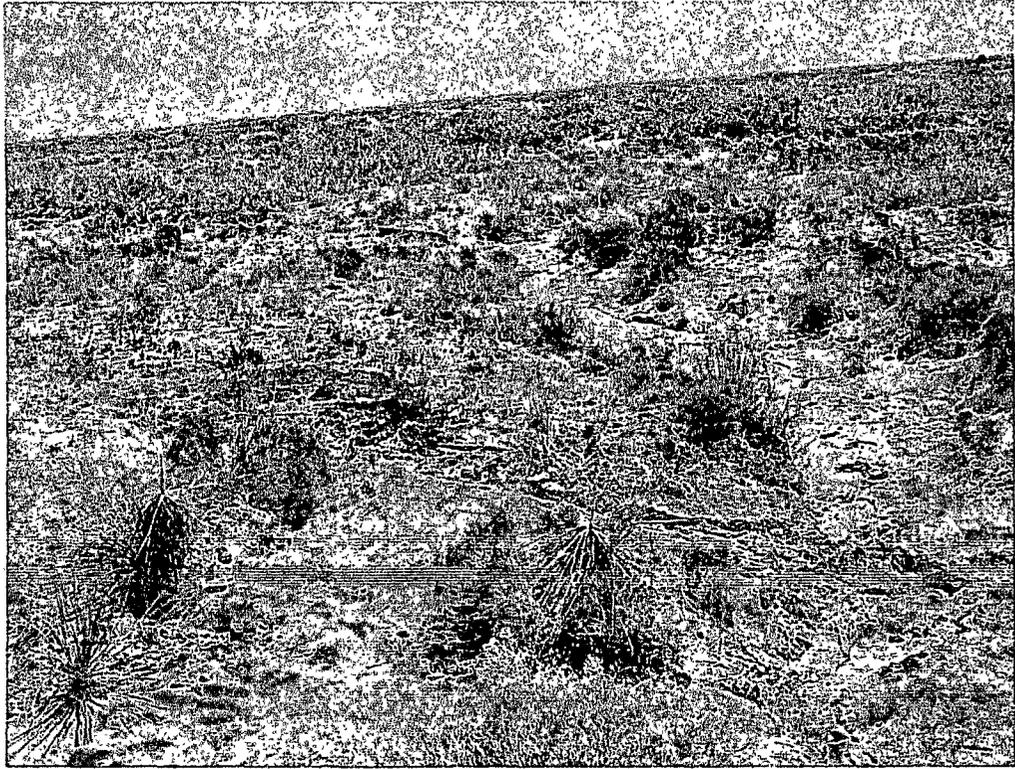
CONCHO	
Figure 4	
State I #16 Proposed Excavation Depths	
COG Spill Assessment Eddy County, New Mexico	
Project: 114-6400887	
Date: 6/22/2011	
File: H:\GIS\6400887	

Photos

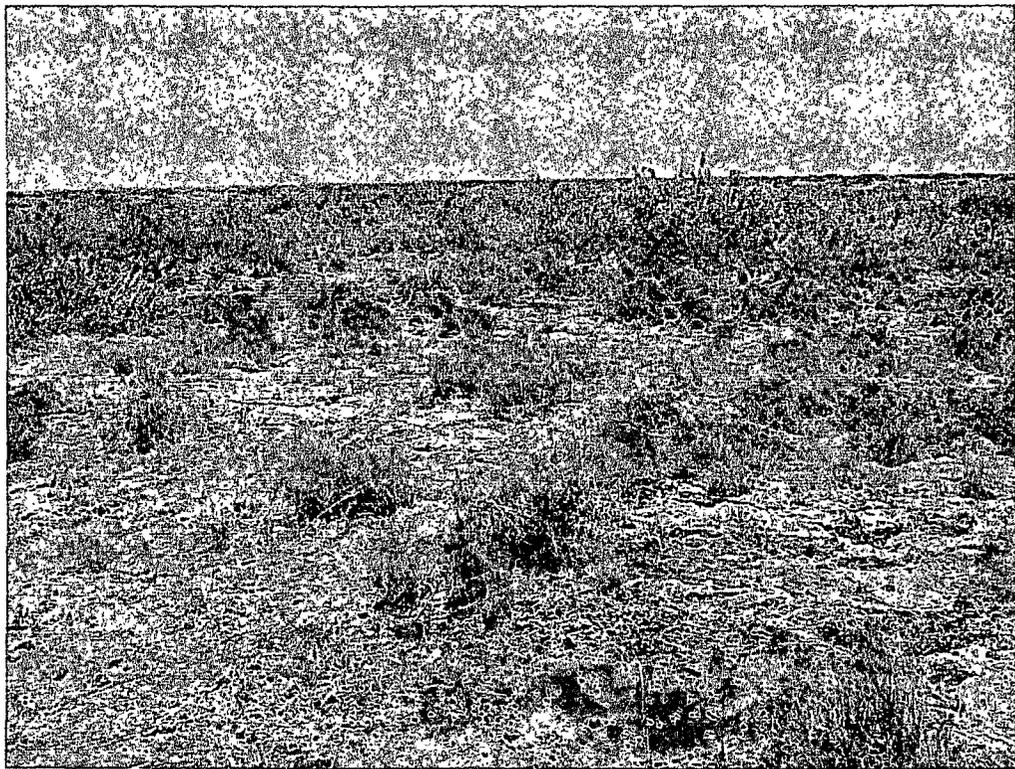
COG Operating LLC
State I #16
Eddy County, New Mexico



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View East – AH-1

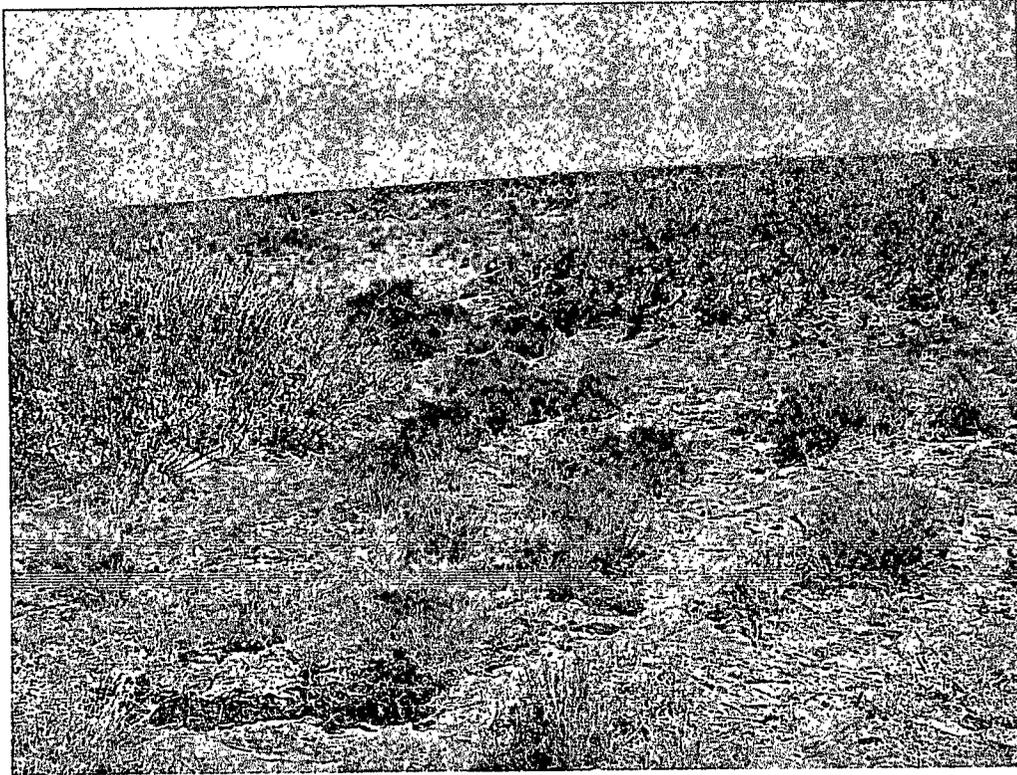


View South – AH-2 and AH-3

COG Operating LLC
State I #16
Eddy County, New Mexico



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View North East - AH-4 and AH-5

Tables

Table 1
COG Operating LLC.
STATE 1 # 16
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-4	4\19\11	0-1'		X		<2.00	<50.0		<.0200	<.0200	<.0200	<.0200	4,830
	"	1-1.5'		X		-	-	-	-	-	-	-	592
	"	2-2.5'		X		-	-	-	-	-	-	-	864
	"	3-3.5'		X		-	-	-	-	-	-	-	540
	"	4-4.5'		X		-	-	-	-	-	-	-	512
	"	5-5.5'		X		-	-	-	-	-	-	-	615
	"	6-6.5'		X		-	-	-	-	-	-	-	606
	"	7-7.5'		X		-	-	-	-	-	-	-	451
	"	8-8.5'		X		-	-	-	-	-	-	-	310
	"	9-9.5'		X		-	-	-	-	-	-	-	414
AH-5	4\19\11	0-1'		X		<2.00	<50.0		<.0200	<.0200	<.0200	<.0200	6,830
	"	1-1.5'		X		-	-	-	-	-	-	-	5,850
	"	2-2.5'		X		-	-	-	-	-	-	-	7,580
	"	3-3.5'		X		-	-	-	-	-	-	-	7,500
	"	4-4.5'		X		-	-	-	-	-	-	-	7,590
	"	5-5.5'		X		-	-	-	-	-	-	-	12,600
	"	6-6.5'		X		-	-	-	-	-	-	-	3,130
	"	7-7.5'		X		-	-	-	-	-	-	-	684

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

Appendix A

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

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company	COG OPERATING LLC	Contact	Pat Ellis
Address	550 W. Texas, Suite 100, Midland, TX 79701	Telephone No:	432-230-0077
Facility Name	State I #16	Facility Type	Flowline

Surface Owner	State	Mineral Owner	Lease No. API#(30-015-03187)
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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
P	29	17S	29E					Eddy

Latitude 32 48.055 Longitude 104 05.356

NATURE OF RELEASE

Type of Release	Produced water	Volume of Release	60bbls	Volume Recovered	0bbls
Source of Release	Flowline	Date and Hour of Occurrence	04/06/2011	Date and Hour of Discovery	04/06/2011 11:00 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	04/08/2011 1:04 p.m.		
Was a Watercourse Reached?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.			

If a Watercourse was Impacted, Describe Fully.*

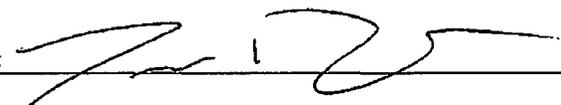
Describe Cause of Problem and Remedial Action Taken.*

The State I #16 poly flowline ruptured. The line has been fused and returned to service.

Describe Area Affected and Cleanup Action Taken.*

Initially 60bbls of produced water was released from the poly flowline. We were unable to recover any fluid. The spill area measured 100' x 150' in the pasture to the east of the location. Tetra Tech will sample the spill site area to delineate any possible contamination from the release and we will present a remediation work plan to the OCD 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:	
Date:	04/15/2011	Phone:	432-212-2399
			Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
COG - State I #16
Eddy County, New Mexico

16 South 28 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 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

16 South 30 East

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

17 South 28 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	28	27	26	25
31	32	33	34	35	36

17 South 30 East

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

18 South 28 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
7	8	9	10	11
18	17	16	15	14
19	20	21	22	23
30	29	28	27	26
31	32	33	34	35

-  New Mexico State Engineers Well Reports
-  USGS Well Reports
-  Geology and Groundwater Conditions in Southern Eddy, County, NM
-  NMOCD - Groundwater Data

TABLE 1. RECORDS OF WELLS IN EDDY COUNTY, NEW MEXICO. (Continued)

LOCATION NUMBER	OWNER OR NAME	DATE COMPLETED	TOPOGRAPHIC SITUATION	ALTITUDE ABOVE SEA LEVEL (feet)	DEPTH OF WELL (feet)	DIAMETER OF WELL (inches)	PRINCIPAL WATER-BEARING BED	
							CHARACTER OF MATERIAL	GEOLOGIC UNIT
17.28.2.240	Hal Bogle	-	Flat between mesas	-	-	6 (?)	Redbeds (?)	Dockum (?)
14.220	do.	-	Rolling	-	-	7	do.	do.
19.200	do.	-	do.	-	-	8	Redbeds, gypsum (?)	Chalk Bluff or Rustler
22.230	-	-	Flat between mesas	-	-	6	Redbeds (?)	Rustler or Dockum (?)
17.29.22.110	-	-	Bear Grass draw	3,550	-	6	do.	Dockum (?)
29.400	Bishop (?)	-	Flat	-	-	7	do.	do.
17.31.34.000	-	-	Rolling	-	-	6 (?)	Redbeds	Dockum
18.21.13.310	Andy Teel	1915	-	4,100	520	8	Limestone	San Andres
27.440	do.	1947	Broad valley	4,200	667	10	do.	do.
32.430	George Teel	1946	Rolling	4,300	815	6	do.	do.
18.23.6.140	Couhape Bros.	1941	S. of Rio Penasco	4,060	500	10	do.	do.
18.25.23.111	G. M. Phelps	-	Blackdom Terrace	-	-	-	Alluvium (?)	Quaternary (?)

See explanation at beginning of table.

LOCATION NUMBER	WATER LEVEL		YIELD (g.p.m.)	METHOD OF LIFT	USE OF WATER	REMARKS
	BELOW LAND SURFACE (feet)	DATE OF MEASUREMENT				

WATER LEVEL						
LOCATION NUMBER	BELOW LAND SURFACE (feet)	DATE OF MEASUREMENT	YIELD (g.p.m.)	METHOD OF LIFT	USE OF WATER	REMARKS
17.28.2.240	27.6	Dec. 1, 1948	3	W	S	Depth to water measured while pumping.
14.220	80	-	61	W	S & D	Driller: Cy Hinshaw. See analysis, Table 3.
19.200	224.3	Dec. 2, 1948	1.2	W	S	Depth to water measured while pumping.
22.290	45.5	Dec. 1, 1948	-	N	N	Abandoned stock well.
17.29.22.110	79.7	Nov. 29, 1948	3 E.	W	S	Depth to water measured while pumping.
29.400	210	Dec. 3, 1948	1.1	W	S	do.
17.31.34.000	271+	Dec. 6, 1948	3.5	W	S	do. See analysis, Table 3.
18.21.13.310	505	-	10 R.	W	S & D	Formerly C.C.C. well. Cased to 30 ft.
27.440	530	-	-	W	S	Cased to 120 ft.
32.430	800 (?)	-	12 R.	W	S & D	Lowered cylinder 5 ft. in 1948 because water level declined. Cased to 380 ft.
18.23.6.140	440	Jan. 12, 1950	-	W	S & D	
18.25.23.111	117.8	Jan. 1950	-	W	S	

See explanation at beginning of table.

1 Measured Dec. 3, 1948.

Appendix C

Summary Report

Kim Dorey
Tetra Tech
1910 N. Big Spring Street
Midland, TX 79705

Report Date: May 3, 2011

Work Order: 11042214

Project Location: Eddy Co., NM
Project Name: COG/State I #16
Project Number: 114-6400887

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
264445	AH-1 0-1'	soil	2011-04-19	00:00	2011-04-21
264446	AH-1 1-1.5'	soil	2011-04-19	00:00	2011-04-21
264447	AH-1 2-2.5'	soil	2011-04-19	00:00	2011-04-21
264448	AH-1 3-3.5'	soil	2011-04-19	00:00	2011-04-21
264449	AH-1 4-4.5'	soil	2011-04-19	00:00	2011-04-21
264450	AH-1 5-5.5'	soil	2011-04-19	00:00	2011-04-21
264451	AH-1 6-6.5'	soil	2011-04-19	00:00	2011-04-21
264452	AH-1 7-7.5'	soil	2011-04-19	00:00	2011-04-21
264453	AH-1 8-8.5'	soil	2011-04-19	00:00	2011-04-21
264454	AH-1 9-9.5'	soil	2011-04-19	00:00	2011-04-21
264455	AH-2 0-1'	soil	2011-04-19	00:00	2011-04-21
264456	AH-2 1-1.5'	soil	2011-04-19	00:00	2011-04-21
264457	AH-2 2-2.5'	soil	2011-04-19	00:00	2011-04-21
264458	AH-2 3-3.5'	soil	2011-04-19	00:00	2011-04-21
264459	AH-3 0-1'	soil	2011-04-19	00:00	2011-04-21
264460	AH-3 1-1.5'	soil	2011-04-19	00:00	2011-04-21
264461	AH-3 2-2.5'	soil	2011-04-19	00:00	2011-04-21
264462	AH-3 3-3.5'	soil	2011-04-19	00:00	2011-04-21
264463	AH-3 4-4.5'	soil	2011-04-19	00:00	2011-04-21
264464	AH-3 5-5.5'	soil	2011-04-19	00:00	2011-04-21
264465	AH-3 6-6.5'	soil	2011-04-19	00:00	2011-04-21
264466	AH-3 7-7.5'	soil	2011-04-19	00:00	2011-04-21
264467	AH-3 8-8.5'	soil	2011-04-19	00:00	2011-04-21
264468	AH-3 9-9.5'	soil	2011-04-19	00:00	2011-04-21
264469	AH-4 0-1'	soil	2011-04-19	00:00	2011-04-21
264470	AH-4 1-1.5'	soil	2011-04-19	00:00	2011-04-21
264471	AH-4 2-2.5'	soil	2011-04-19	00:00	2011-04-21
264472	AH-4 3-3.5'	soil	2011-04-19	00:00	2011-04-21
264473	AH-4 4-4.5'	soil	2011-04-19	00:00	2011-04-21
264474	AH-4 5-5.5'	soil	2011-04-19	00:00	2011-04-21

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
264475	AH-4 6-6.5'	soil	2011-04-19	00:00	2011-04-21
264476	AH-4 7-7.5'	soil	2011-04-19	00:00	2011-04-21
264477	AH-4 8-8.5'	soil	2011-04-19	00:00	2011-04-21
264478	AH-4 9-9.5'	soil	2011-04-19	00:00	2011-04-21
264479	AH-5 0-1'	soil	2011-04-19	00:00	2011-04-21
264480	AH-5 1-1.5'	soil	2011-04-19	00:00	2011-04-21
264481	AH-5 2-2.5'	soil	2011-04-19	00:00	2011-04-21
264482	AH-5 3-3.5'	soil	2011-04-19	00:00	2011-04-21
264483	AH-5 4-4.5'	soil	2011-04-19	00:00	2011-04-21
264484	AH-5 5-5.5'	soil	2011-04-19	00:00	2011-04-21
264485	AH-5 6-6.5'	soil	2011-04-19	00:00	2011-04-21
264486	AH-5 7-7.5'	soil	2011-04-19	00:00	2011-04-21

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)
264445 - AH-1 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
264455 - AH-2 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
264459 - AH-3 0-1'	<0.0200	0.110	0.126	0.395	77.8	17.0
264469 - AH-4 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
264479 - AH-5 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00

Sample: 264445 - AH-1 0-1'

Param	Flag	Result	Units	RL
Chloride		2550	mg/Kg	4

Sample: 264446 - AH-1 1-1.5'

Param	Flag	Result	Units	RL
Chloride		10400	mg/Kg	4

Sample: 264447 - AH-1 2-2.5'

Param	Flag	Result	Units	RL
Chloride		6910	mg/Kg	4

Sample: 264448 - AH-1 3-3.5'

Param	Flag	Result	Units	RL
Chloride		5300	mg/Kg	4

Sample: 264449 - AH-1 4-4.5'

Param	Flag	Result	Units	RL
Chloride		12000	mg/Kg	4

Sample: 264450 - AH-1 5-5.5'

Param	Flag	Result	Units	RL
Chloride		5550	mg/Kg	4

Sample: 264451 - AH-1 6-6.5'

Param	Flag	Result	Units	RL
Chloride		6480	mg/Kg	4

Sample: 264452 - AH-1 7-7.5'

Param	Flag	Result	Units	RL
Chloride		3340	mg/Kg	4

Sample: 264453 - AH-1 8-8.5'

Param	Flag	Result	Units	RL
Chloride		2040	mg/Kg	4

Sample: 264454 - AH-1 9-9.5'

Param	Flag	Result	Units	RL
Chloride		1550	mg/Kg	4

Sample: 264455 - AH-2 0-1'

Param	Flag	Result	Units	RL
Chloride		451	mg/Kg	4

Sample: 264456 - AH-2 1-1.5'

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4

Sample: 264457 - AH-2 2-2.5'

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4

Sample: 264458 - AH-2 3-3.5'

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4

Sample: 264459 - AH-3 0-1'

Param	Flag	Result	Units	RL
Chloride		20500	mg/Kg	4

Sample: 264460 - AH-3 1-1.5'

Param	Flag	Result	Units	RL
Chloride		451	mg/Kg	4

Sample: 264461 - AH-3 2-2.5'

Param	Flag	Result	Units	RL
Chloride		313	mg/Kg	4

Sample: 264462 - AH-3 3-3.5'

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4

Sample: 264463 - AH-3 4-4.5'

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4

Sample: 264464 - AH-3 5-5.5'

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4

Sample: 264465 - AH-3 6-6.5'

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4

Sample: 264466 - AH-3 7-7.5'

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4

Sample: 264467 - AH-3 8-8.5'

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4

Sample: 264468 - AH-3 9-9.5'

Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4

Sample: 264469 - AH-4 0-1'

Param	Flag	Result	Units	RL
Chloride		4830	mg/Kg	4

Sample: 264470 - AH-4 1-1.5'

Param	Flag	Result	Units	RL
Chloride		592	mg/Kg	4

Sample: 264471 - AH-4 2-2.5'

Param	Flag	Result	Units	RL
Chloride		864	mg/Kg	4

Sample: 264472 - AH-4 3-3.5'

Param	Flag	Result	Units	RL
Chloride		540	mg/Kg	4

Sample: 264473 - AH-4 4-4.5'

Param	Flag	Result	Units	RL
Chloride		512	mg/Kg	4

Sample: 264474 - AH-4 5-5.5'

Param	Flag	Result	Units	RL
Chloride		615	mg/Kg	4

Sample: 264475 - AH-4 6-6.5'

Param	Flag	Result	Units	RL
Chloride		606	mg/Kg	4

Sample: 264476 - AH-4 7-7.5'

Param	Flag	Result	Units	RL
Chloride		451	mg/Kg	4

Sample: 264477 - AH-4 8-8.5'

Param	Flag	Result	Units	RL
Chloride		310	mg/Kg	4

Sample: 264478 - AH-4 9-9.5'

Param	Flag	Result	Units	RL
Chloride		414	mg/Kg	4

Sample: 264479 - AH-5 0-1'

Param	Flag	Result	Units	RL
Chloride		6830	mg/Kg	4

Sample: 264480 - AH-5 1-1.5'

Param	Flag	Result	Units	RL
Chloride		5850	mg/Kg	4

Sample: 264481 - AH-5 2-2.5'

Param	Flag	Result	Units	RL
Chloride		7580	mg/Kg	4

Sample: 264482 - AH-5 3-3.5'

Param	Flag	Result	Units	RL
Chloride		7500	mg/Kg	4

Sample: 264483 - AH-5 4-4.5'

Param	Flag	Result	Units	RL
Chloride		7590	mg/Kg	4

Sample: 264484 - AH-5 5-5.5'

Param	Flag	Result	Units	RL
Chloride		12600	mg/Kg	4

Sample: 264485 - AH-5 6-6.5'

Param	Flag	Result	Units	RL
Chloride		3130	mg/Kg	4

Sample: 264486 - AH-5 7-7.5'

Param	Flag	Result	Units	RL
Chloride		684	mg/Kg	4