SITE INFORMATION

2RP-610

Report Type: Work Plan

General Site Information:		
Site:	Electra Federal #5 Tank Battery	
Company:	COG Operating LLC	
Section, Township and Range	Unit D - Section 15 - Township 17S - Range 30E	
Lease Number:	30-015-34211	
County:	Eddy County	
GPS:	32.83989° N	103.96511° W
Surface Owner:	Federal	
Mineral Owner:		
Directions:	From the intersection of Hwy 82 and CR-217 in Loco Hills, travel north on CR-217 1.7 mi, turn right and travel 1.0 mi, turn right and travel 0.2 mi to location on left.	

Release Data:	
Date Released:	2/9/2011
Type Release:	Produced Water
Source of Contamination:	Flowline failure
Fluid Released:	8 bbls
Fluids Recovered:	6 bbls

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

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

July 25, 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., Electra Federal #5 Tank Battery, Unit D, Section 15, 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 Electra Federal #5 Tank Battery, Unit D, Section 15, Township 17 South, Range 30 East, Eddy County, New Mexico. (Site). The spill site coordinates are N 32.83989°, W 103.96511°. 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 February 9, 2011, and released approximately eight (8) barrels of produced water due to freezing temperatures splitting a flow line. To alleviate the problem, COG personnel replaced the damaged flow line. Six (6) barrels of standing fluids were recovered. The spill initiated from a flow line in the pasture area south of the tank battery and migrated north approximately 150'. The spill affected an area approximately 10 x 150'. The initial C-141 form is enclosed in Appendix A.

Groundwater

No water wells were listed within Section 15. According to the NMOCD Eddy County groundwater map, the average depth to groundwater in this area is greater than 300' 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

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 March 4, 2011, Tetra Tech personnel inspected and sampled the spill area. A total of four (4) auger holes (AH-1 through AH-4) 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 of the submitted samples were below the RRAL for TPH and BTEX, with the exception of AH-2. Auger hole (AH-2) showed a TPH of 8,140 mg/kg and a total BTEX of 217.18 mg/kg at 0-1' and declined below the RRAL at 1-1.5' below surface.

A shallow chloride impact was detected in the auger holes. In the areas of AH-1, AH-2 and AH-3, the chloride concentrations declined below the reporting limit at 4.0', 5.0' and 1.0', respectively. Auger hole (AH-4) showed a chloride concentrations of 2,450 mg/kg at 0-1' and declined to <200 at 1-1.5', but the deeper sample showed an increasing chloride concentration of 1,000 mg/kg at 3-3.5' below surface.

Work Plan

COG proposes to removal of impacted material as highlighted (green) in Table 1 and shown in Figure 4. The areas of AH-1 and AH-2 will be excavated to a depth of approximately 4.0' to 5.0' below surface. In addition,

auger holes (AH-3 and AH-4) will be excavated 1.0' to remove the chloride impacted soils. Once excavated to the appropriate depths, the area of AH-4 will be trenched with a backhoe to define chloride impact encountered at 3.0' below surface. Once completed, the excavations will be backfilled with clean soil. Upon completion a final report will be submitted to the NMOCD.

The goal of the remediation is to establish surface growth and to reduce the environmental liabilities for the protection of the groundwater. 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 safely concerns. As such, Tetra Tech will excavate the soils to the maximum extent practicable.

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 Tavarez, PG
Sr. Project Manager

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

Figures

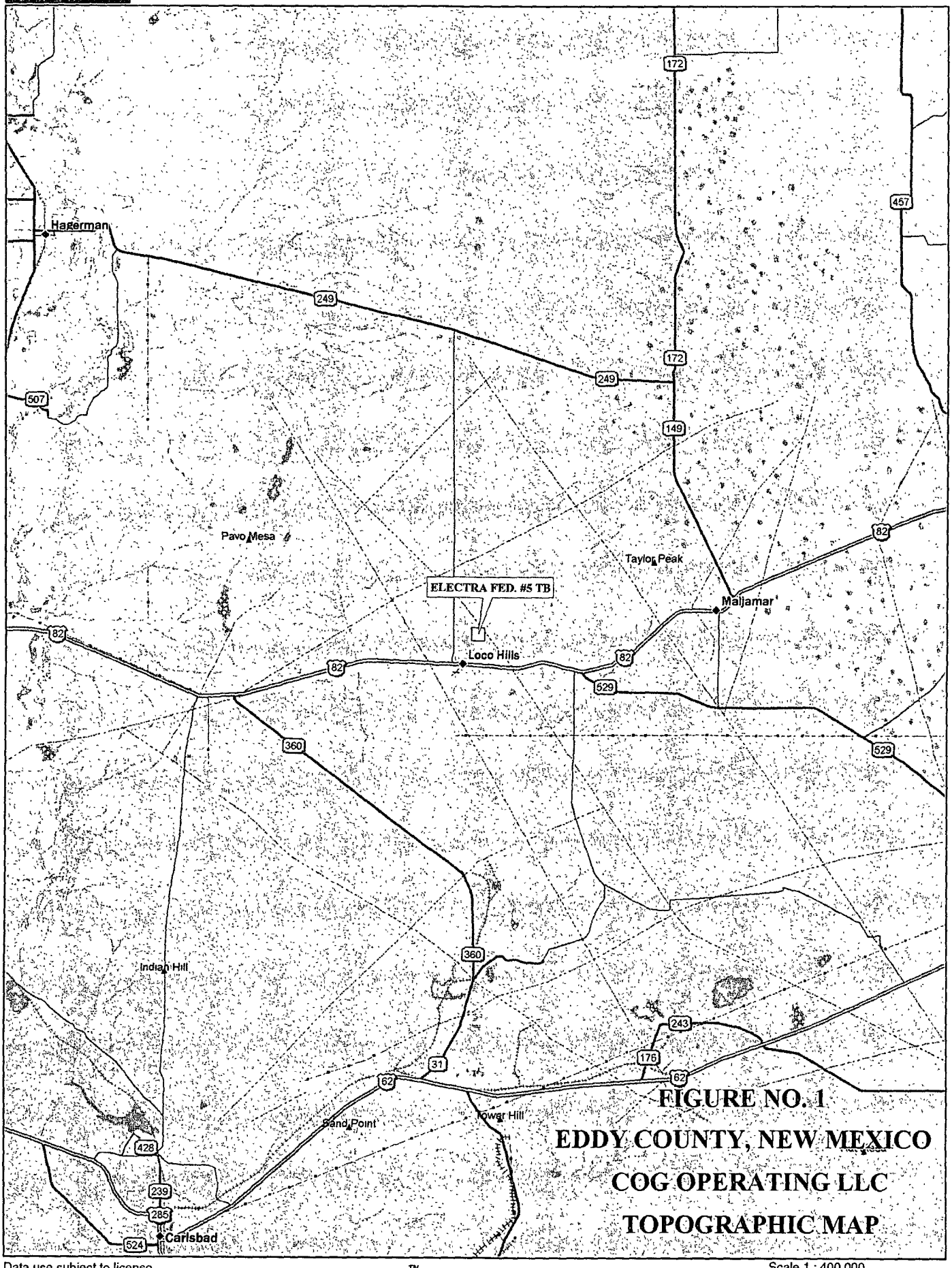


FIGURE NO. 1
EDDY COUNTY, NEW MEXICO
COG OPERATING LLC
TOPOGRAPHIC MAP

TN
MN (7.8°E)

Scale 1 : 400,000
1" = 6.31 mi
Data Zoom 9-0

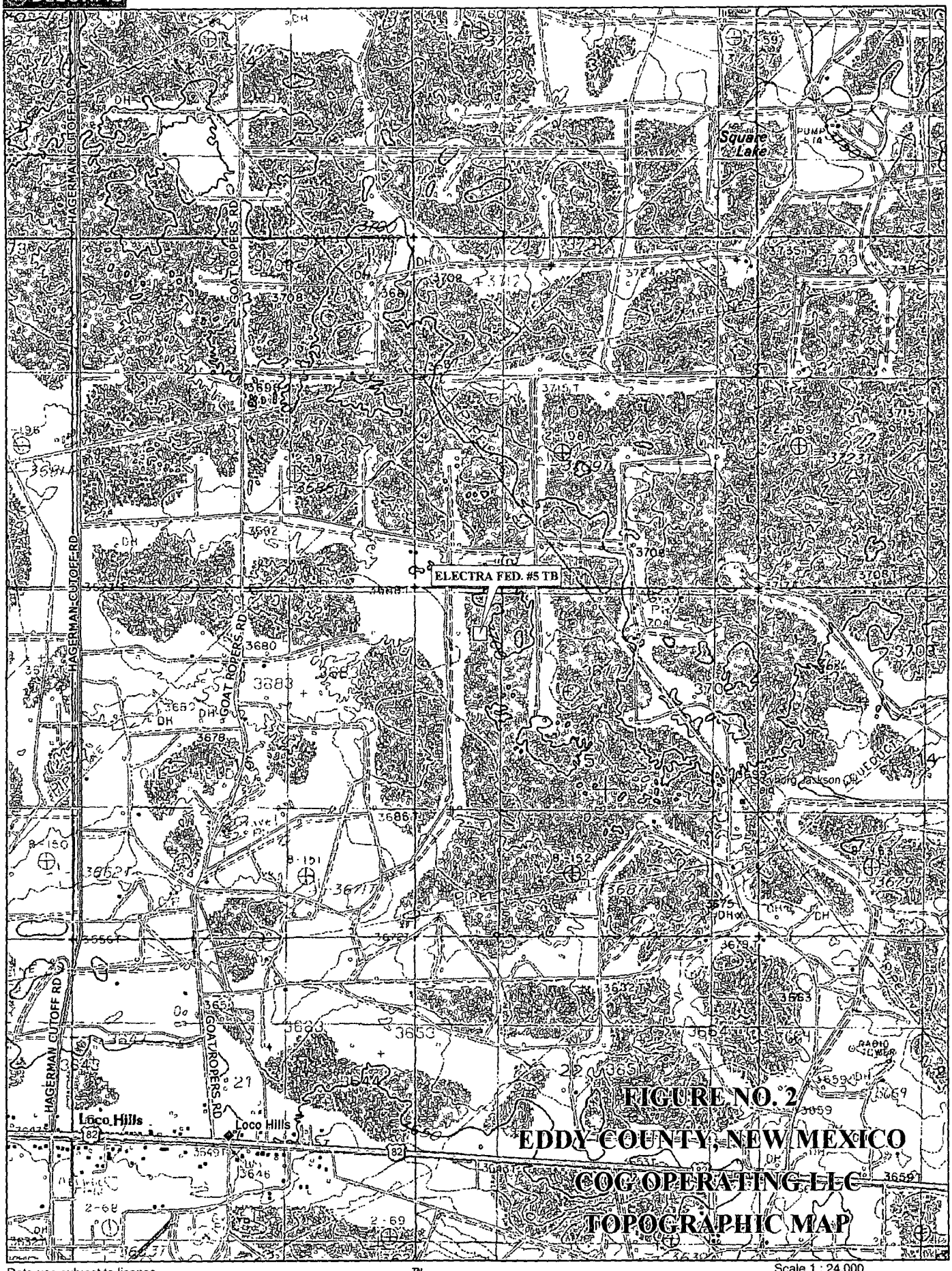


FIGURE NO. 2

EDDY COUNTY, NEW MEXICO

COG OPERATING LLC

TOPOGRAPHIC MAP

TN

MN (7.6°E)

Scale 1 : 24,000

1" = 2,000.0 ft

Data Zoom 13-0

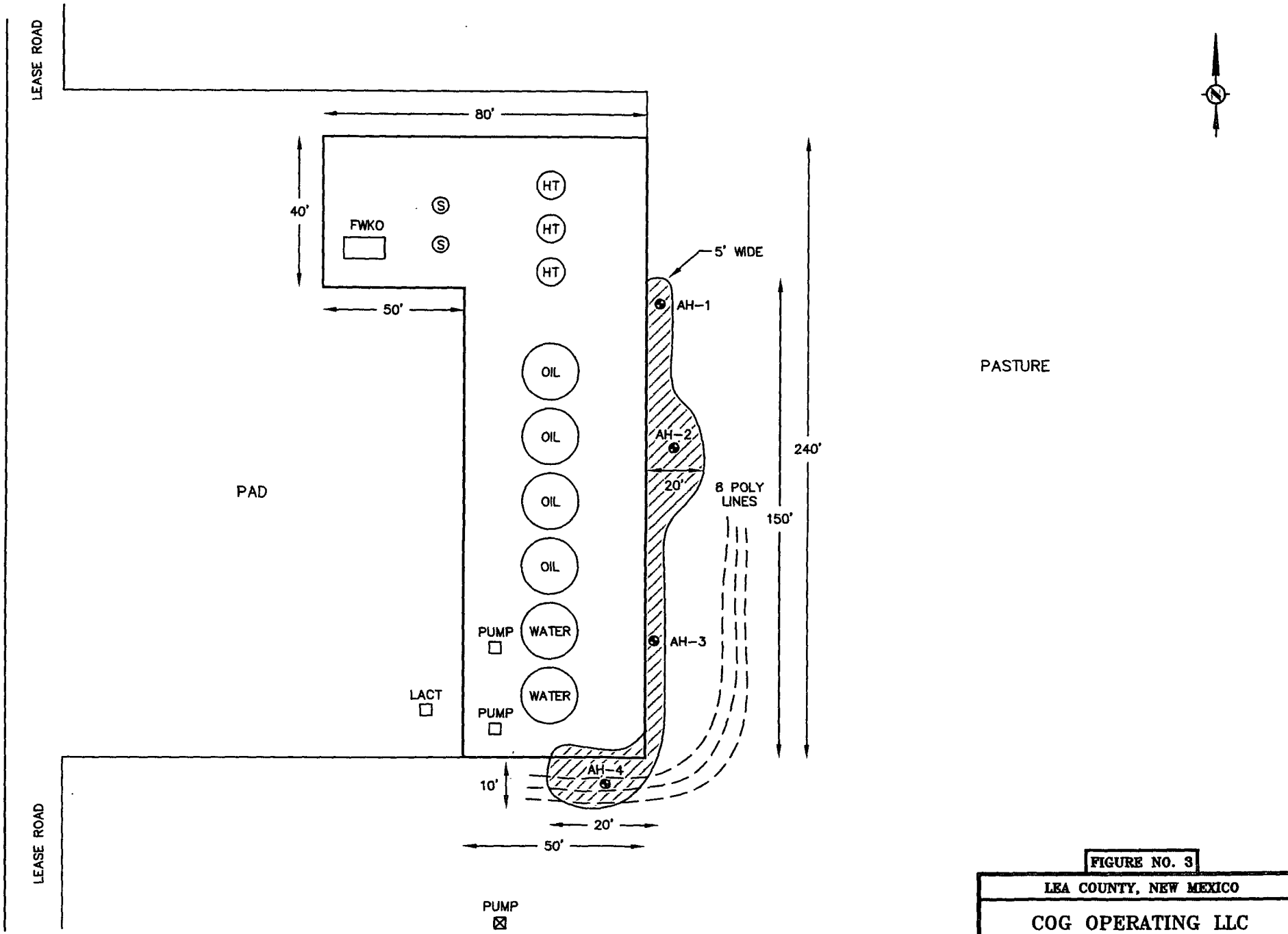


FIGURE NO. 3

LEA COUNTY, NEW MEXICO

COG OPERATING LLC

ELECTRA FED #5 TB

TETRA TECH, INC.
MIDLAND, TEXAS

DATE: 7/28/2011
DWN. BY: IM
FILE: H:\COG\6400628 ELECTRA FED #5 TB

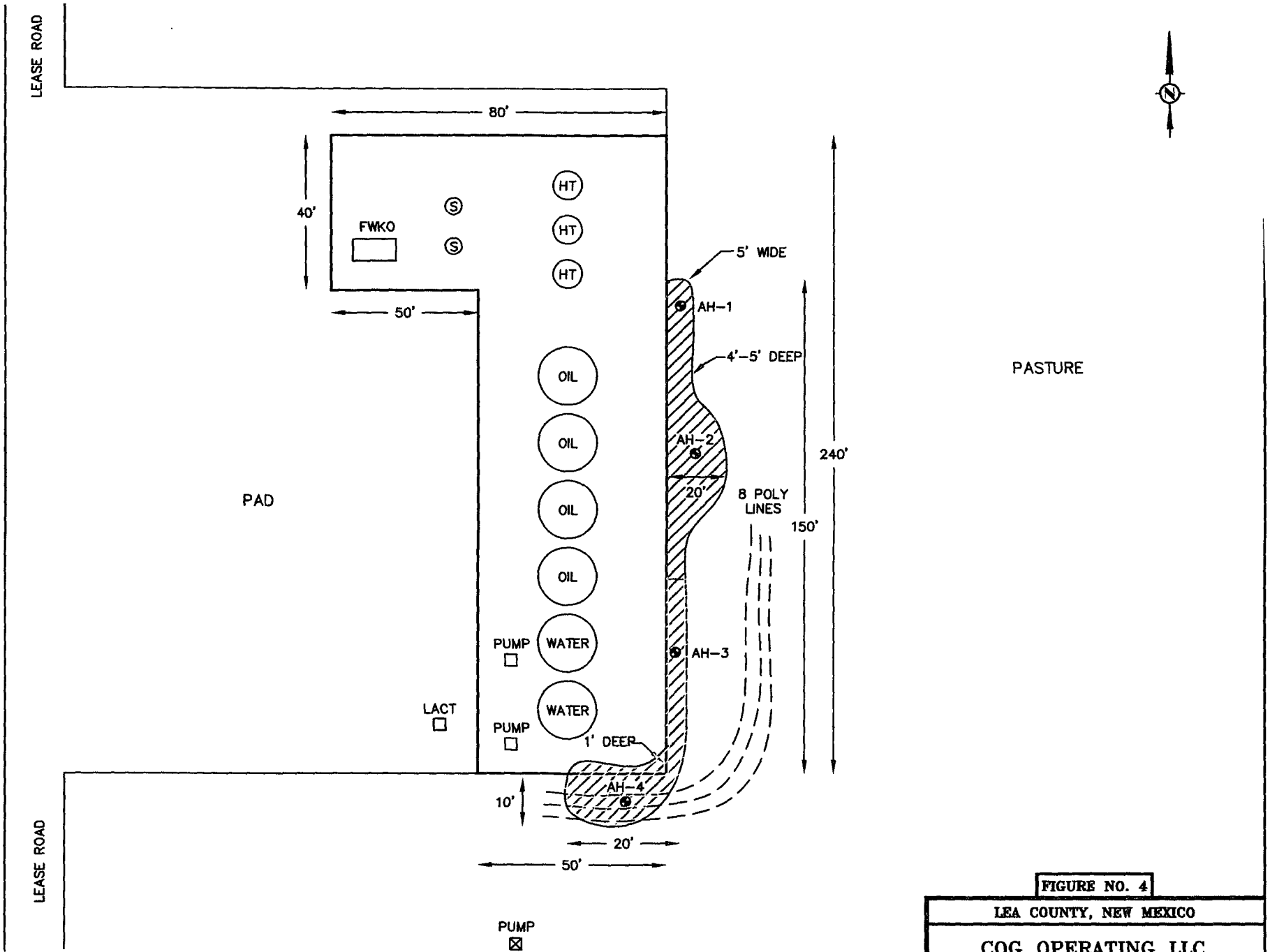


FIGURE NO. 4

LEA COUNTY, NEW MEXICO

COG OPERATING LLC

ELECTRA FED #5 TB

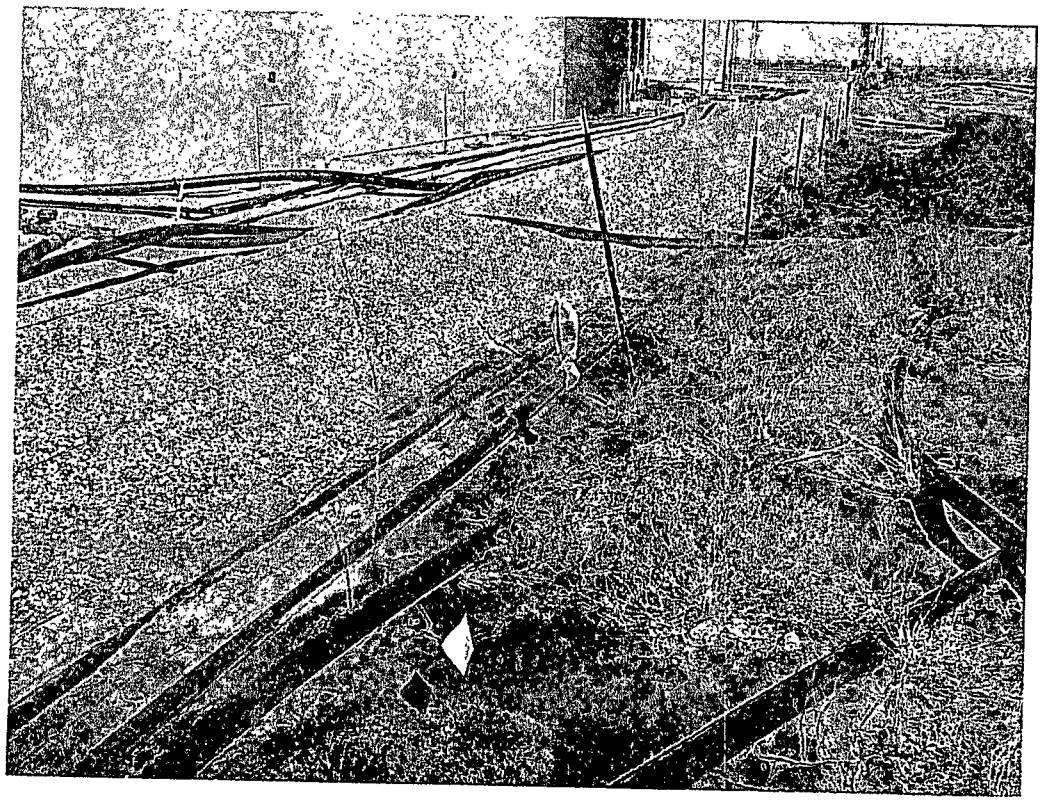
TETRA TECH, INC.
MIDLAND, TEXAS

Photos

COG Operating LLC
Electra Federal #5
Eddy County, New Mexico
Site Assessment: March 4, 2011

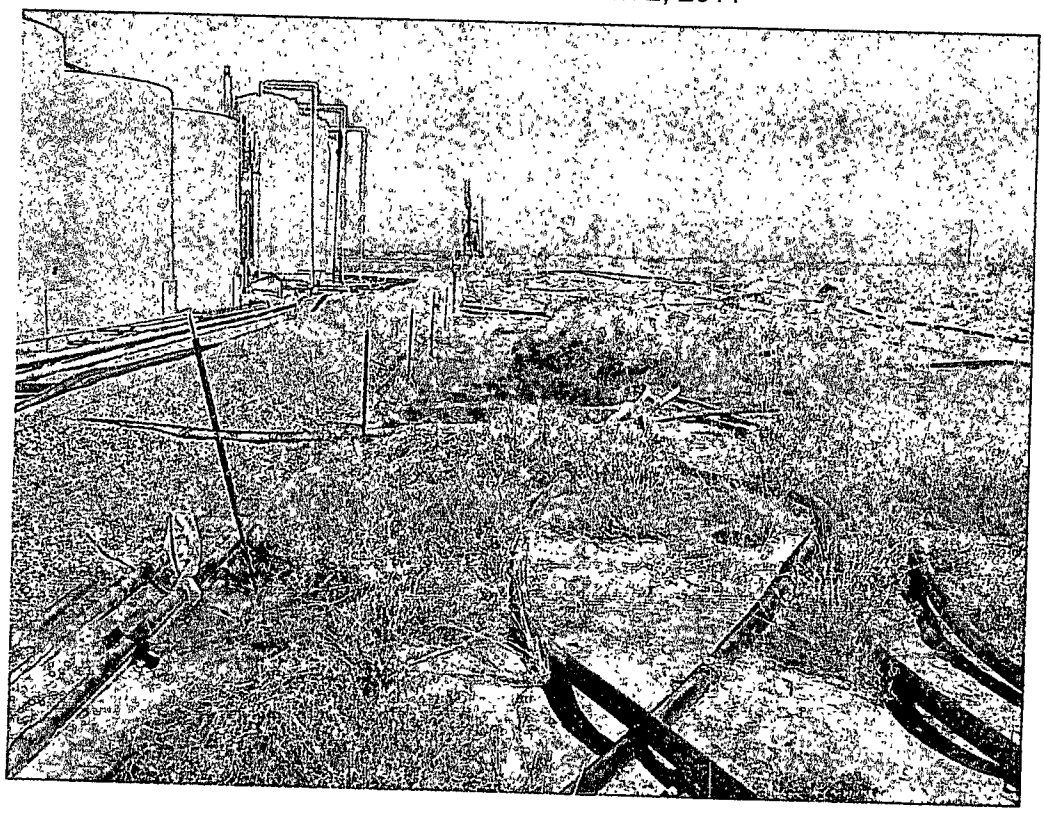
TETRA TECH

View north – Back of tank battery near AH-2

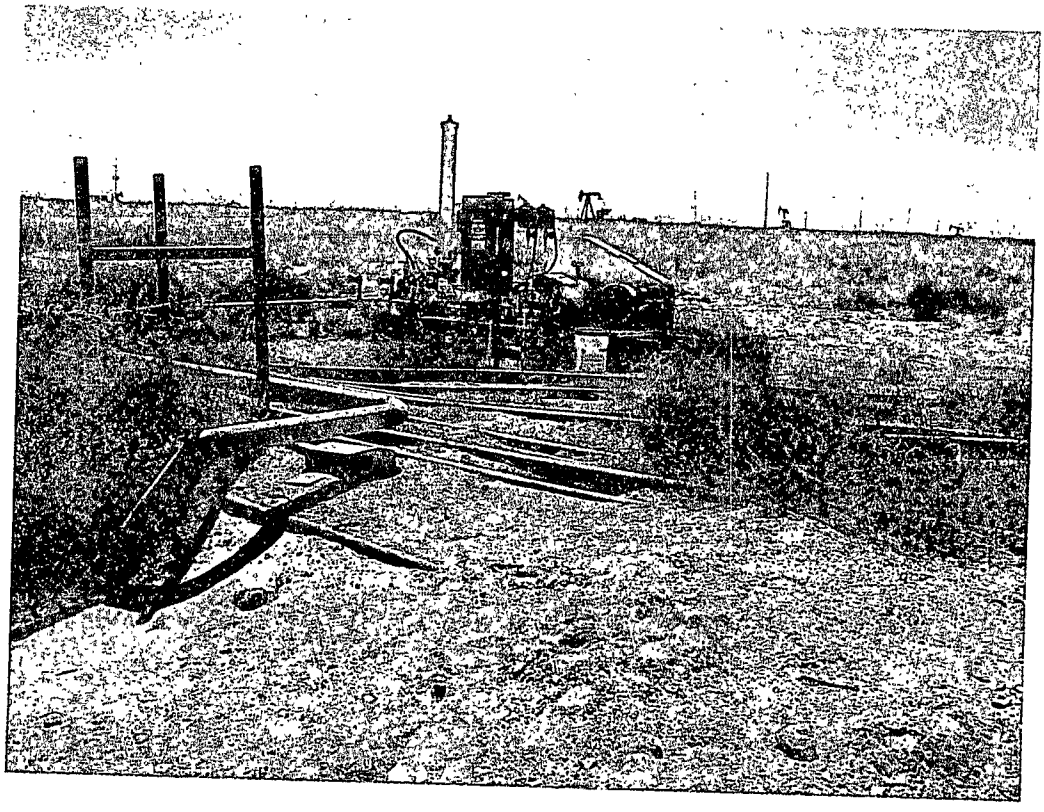


View north – Back of tank battery near AH-3

COG Operating LLC
Electra Federal #5
Eddy County, New Mexico
Site Assessment: March 2, 2011



View north – Back of tank battery near AH-3



Pumping unit near AH-4

TETRA TECH

Tables

Table 1
COG Operating LLC.
ELECTRA FEDERAL #5
EDDY COUNTY, NEW MEXICO

Sample ID	Sample Date	Sample Depth (ft)	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-1	3/4/2011	0-1'	X		53.0	163	216.0	0.136	0.186	0.178	0.492	6,020
	"	1-1.5'	X		-	-	-	-	-	-	-	4,770
	"	2-2.5'	X		-	-	-	-	-	-	-	1,710
	"	3-3.5'	X		-	-	-	-	-	-	-	1,710
	"	4-4.5'	X		-	-	-	-	-	-	-	<200
	"	5-5.5'	X		-	-	-	-	-	-	-	214
AH-2	3/4/2011	0-1'	X		3,260	4,880	8,140	5.38	63.0	59.6	89.2	8,740
	"	1-1.5'	X		<2.00	<50.0	<50.0	<0.0200	0.161	<0.0200	<0.0200	3,030
	"	2-2.5'	X		<2.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	2,820
	"	3-3.5'	X		-	-	-	-	-	-	-	291
	"	4-4.5'	X		-	-	-	-	-	-	-	2,520
	"	5-5.5'	X		-	-	-	-	-	-	-	<200
	"	6-6.5'	X		-	-	-	-	-	-	-	<200
AH-3	3/4/2011	0-1'	X		478	180	658	<0.0200	4.35	8.52	12.8	2,490
	"	1-1.5'	X		-	-	-	-	-	-	-	<200
	"	2-2.5'	X		-	-	-	-	-	-	-	461
AH-4	3/4/2011	0-1'	X		54.2	245	299.2	<0.0200	0.152	0.228	0.548	2,450
	"	1-1.5'	X		-	-	-	-	-	-	-	<200
	"	2-2.5'	X		-	-	-	-	-	-	-	<200
	"	3-3.5'	X		-	-	-	-	-	-	-	1,000

(--) Not Analyzed

▭ Proposed 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-14
Revised October 10, 200:

Submit 2 Copies to appropriat
District Office in accordanc
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Repo

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	Electra Federal #5	Facility Type	Flowline

Surface Owner Federal	Mineral Owner	Lease No. (API#) 30-015-34211

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	15	17S	30E					Eddy

Latitude 32 50.373 **Longitude** 103 57.919

NATURE OF RELEASE

Type of Release Produced water	Volume of Release 8bbls	Volume Recovered 6bbls
Source of Release Flowline	Date and Hour of Occurrence 02/09/2011	Date and Hour of Discovery 02/09/2011 10:00 a.m.
Was Immediate Notice Given? ☐ Yes ☒ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

RECEIVED
AUG 30 2011
NMOCD ARTESIA

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Due to freezing temperatures the flowline split and released fluid. We replaced the split joint of pipe and returned the line into service.

Describe Area Affected and Cleanup Action Taken.*

Initially 8bbls was released from the flowline and we were able to recover 6bbls with a vacuum truck. The release occurred just outside the berm wall of the facility on the south side between the water pumps and booster pump, and traveled approximately 4' x 30' on the location and into the pasture area. Tetra Tech will sample the spill site area to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD prior to any significant remediation work.

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

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Josh Russo	Approved by District Supervisor:	
Title: HSE Coordinator	Approval Date:	Expiration Date:
E-mail Address: jrusso@conchoresources.com	Conditions of Approval:	Attached ☐
Date: 02/21/2011 Phone: 432-212-2399		

* Attach Additional Sheets If Necessary

Appendix B

Water Well Data
Average Depth to Groundwater (ft)
COG - Electra Federal #5
Eddy County, New Mexico

16 South 29 East

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

16 South 30 East

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

16 South 31 East

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

17 South 29 East

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

17 South 30 East

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15 **SITE**	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 **271**	35	36

18 South 29 East

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

18 South 30 East

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

18 South 31 East

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

New Mexico State Engineers Well Reports
USGS Well Reports
Geology and Groundwater Conditions in Southern Eddy, County, NM
NMOCD - Groundwater Data
Site Location - Electra Federal #5 Site

Appendix C

Summary Report

Victoria Inman
Tetra Tech
1910 N. Big Spring Street
Midland, TX 79705

Report Date: March 17, 2011

Work Order: 11030725

Project Location: Eddy County, NM
Project Name: COG/Electra Federal #5
Project Number: 114-6400825

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
259766	AH-1 0-1'	soil	2011-03-04	00:00	2011-03-04
259767	AH-1 1-1.5'	soil	2011-03-04	00:00	2011-03-04
259768	AH-1 2-2.5'	soil	2011-03-04	00:00	2011-03-04
259769	AH-1 3-3.5'	soil	2011-03-04	00:00	2011-03-04
259770	AH-1 4-4.5'	soil	2011-03-04	00:00	2011-03-04
259771	AH-1 5-5.5'	soil	2011-03-04	00:00	2011-03-04
259772	AH-2 0-1'	soil	2011-03-04	00:00	2011-03-04
259773	AH-2 1-1.5'	soil	2011-03-04	00:00	2011-03-04
259774	AH-2 2-2.5'	soil	2011-03-04	00:00	2011-03-04
259775	AH-2 3-3.5'	soil	2011-03-04	00:00	2011-03-04
259776	AH-2 4-4.5'	soil	2011-03-04	00:00	2011-03-04
259777	AH-2 5-5.5'	soil	2011-03-04	00:00	2011-03-04
259778	AH-2 6-6.5'	soil	2011-03-04	00:00	2011-03-04
259779	AH-3 0-1'	soil	2011-03-04	00:00	2011-03-04
259780	AH-3 1-1.5'	soil	2011-03-04	00:00	2011-03-04
259781	AH-3 2-2.5'	soil	2011-03-04	00:00	2011-03-04
259782	AH-4 0-1'	soil	2011-03-04	00:00	2011-03-04
259783	AH-4 1-1.5'	soil	2011-03-04	00:00	2011-03-04
259784	AH-4 2-2.5'	soil	2011-03-04	00:00	2011-03-04
259785	AH-4 3-3.5'	soil	2011-03-04	00:00	2011-03-04

	BTEX				TPH DRO - NEW	TPH GRO
Sample - Field Code	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	DRO (mg/Kg)	GRO (mg/Kg)
259766 - AH-1 0-1'	**0.136**	**0.186**	**0.178**	**0.492**	**163**	**53.0**
259772 - AH-2 0-1'	**5.38**	**63.0**	**59.6**	**89.2**	**4880**	**3260**
259773 - AH-2 1-1.5'	<0.0200	**0.161**	<0.0200	<0.0200	<50.0	<2.00
259774 - AH-2 2-2.5'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<2.00
259779 - AH-3 0-1'	<0.0200	**4.35**	**8.52**	**12.8**	**180**	**478**

continued ...

... continued

Sample - Field Code	BTEX Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	TPH DRO - NEW DRO (mg/Kg)	TPH GRO GRO (mg/Kg)
259782 - AH-4 0-1'	<0.0200	**0.152**	**0.228**	**0.548**	**245**	**54.2**

Sample: 259766 - AH-1 0-1'

Param	Flag	Result	Units	RL
Chloride		**6020**	mg/Kg	4.00

Sample: 259767 - AH-1 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**4770**	mg/Kg	4.00

Sample: 259768 - AH-1 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**1710**	mg/Kg	4.00

Sample: 259769 - AH-1 3-3.5'

Param	Flag	Result	Units	RL
Chloride		**1710**	mg/Kg	4.00

Sample: 259770 - AH-1 4-4.5'

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

Sample: 259771 - AH-1 5-5.5'

Param	Flag	Result	Units	RL
Chloride		**214**	mg/Kg	4.00

Sample: 259772 - AH-2 0-1'

continued ...

sample 259772 continued ...

Param	Flag	Result	Units	RL

Param	Flag	Result	Units	RL
Chloride		**8740**	mg/Kg	4.00

Sample: 259773 - AH-2 1-1.5'

Param	Flag	Result	Units	RL
Chloride		**3030**	mg/Kg	4.00

Sample: 259774 - AH-2 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**2820**	mg/Kg	4.00

Sample: 259775 - AH-2 3-3.5'

Param	Flag	Result	Units	RL
Chloride		**291**	mg/Kg	4.00

Sample: 259776 - AH-2 4-4.5'

Param	Flag	Result	Units	RL
Chloride		**2520**	mg/Kg	4.00

Sample: 259777 - AH-2 5-5.5'

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

Sample: 259778 - AH-2 6-6.5'

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

Sample: 259779 - AH-3 0-1'

Param	Flag	Result	Units	RL
Chloride		**2490**	mg/Kg	4.00

Sample: 259780 - AH-3 1-1.5'

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

Sample: 259781 - AH-3 2-2.5'

Param	Flag	Result	Units	RL
Chloride		**461**	mg/Kg	4.00

Sample: 259782 - AH-4 0-1'

Param	Flag	Result	Units	RL
Chloride		**2450**	mg/Kg	4.00

Sample: 259783 - AH-4 1-1.5'

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

Sample: 259784 - AH-4 2-2.5'

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

Sample: 259785 - AH-4 3-3.5'

Param	Flag	Result	Units	RL
Chloride		**1000**	mg/Kg	4.00

* WO # 11030725

Analysis Request of Chain of Custody Record

PAGE: 1 OF: 2

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

CLIENT NAME: COG
SITE MANAGER: Ike Tavarez
PROJECT NO.: 114-6400825
PROJECT NAME: Electra Federal #5 Eddy Co NM

ANALYSIS REQUEST (*Circle or Specify Method No.*)

LAB I.D. NUMBER	DATE 2011	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION		NUMBER OF CONTAINERS	FILTERED (Y/N)	HCL	HNO3	ICE	NONE	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 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
259766	3/4		S		X	AH-1	0-1'	1				X		X	X											X				
767						AH-1	1-1.5'																							
768						AH-1	2-2.5'																							
769						AH-1	3-3.5'																							
770						AH-1	4-4.5'																							
771						AH-1	5-5.5'																							
772						AH-2	0-1'							X	X															
773						AH-2	1-1.5'																							
774						AH-2	2-2.5'																							
775						AH-2	3-3.5'																							

RELINQUISHED BY: (Signature) [signature] Date: 3-4-11 Time: 1615
RECEIVED BY: (Signature) [signature] Date: 3/4/11 Time: 1615

SAMPLED BY: (Print & Initial) TF Date: 3-4-11 Time:

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:

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

RELINQUISHED BY: (Signature) Date: Time:
RECEIVED BY: (Signature) Date: Time:

TETRA TECH CONTACT PERSON: Ike Tavarez
Results by:
RUSH Charges Authorized: Yes No

RECEIVING LABORATORY: Trace
RECEIVED BY: (Signature)
ADDRESS:
CITY: Midland STATE: TX ZIP:
CONTACT: PHONE: DATE: TIME:

SAMPLE CONDITION WHEN RECEIVED: 4.0°C intact

REMARKS: If total TPH exceeds 5,000 mg/kg run deeper samples

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

WO# 1103072S

Analysis Request of Chain of Custody Record

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

ANALYSIS REQUEST (Circle or Specify Method No.)

CLIENT NAME: COG

SITE MANAGER: Ike Tavarez

PROJECT NO.: 114-6400825

PROJECT NAME: Electra Federal #5 Eddy Co NM

LAB I.D. NUMBER	DATE 2011	TIME	MATRIX	COMP.	GRAB	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	FILTERED (Y/N)	PRESERVATIVE METHOD: HCL	HNO3	ICE	NONE	BTEX 8021B	TPH TX1005 (Ext. to C35)	TPH 8015 MOD	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 8080/608	Pest. 808/608	Chloride	Gamma Spec.	Alpha Beta (Air)	PLM (Asbestos)	Major Anions/Cations, pH, TDS
259776	3/4		S		X	AH-2 4-4.5'	1				X															X				
777						AH-2 5-5.5'																								
778						AH-2 6-6.5'																								
779						AH-3 0-1'								X	X															
780						AH-3 1-1.5'																								
781						AH-3 2-2.5'																								
782						AH-4 0-1'								X	X															
783						AH-4 1-1.5'																								
784						AH-4 2-2.5'																								
785			V		V	AH-4 3-3.5'																				V				

RELINQUISHED BY: (Signature) Date: 3-4-11 Time: 1615 — RECEIVED BY: (Signature) Date: 3/4/11 Time: 16:15

SAMPLED BY: (Print & Initial) TF Date: 3-4-11 Time:

RELINQUISHED BY: (Signature) Date: Time: — RECEIVED BY: (Signature) Date: Time:

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

RELINQUISHED BY: (Signature) Date: Time: — RECEIVED BY: (Signature) Date: Time:

RECEIVING LABORATORY: Trace
ADDRESS:
CITY: Midland STATE: TX ZIP:
CONTACT: PHONE:
RECEIVED BY: (Signature)
DATE: TIME:

TETRA TECH CONTACT PERSON: Ike Tavarez

Results by:

RUSH Charges Authorized: Yes No

SAMPLE CONDITION WHEN RECEIVED: 10°C intact

REMARKS:

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