

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

GW: 275'

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company	COG OPERATING LLC	Contact	Robert McNeill
Address	600 West Illinois Avenue, Midland, TX 79701	Telephone No.	432-230-0077
Facility Name	LPC 31 Federal #001	Facility Type	Tank Battery
Surface Owner	Federal	Mineral Owner	
		Lease No. (API#)	30-025-37440

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
G	31	18S	32E					Lea

Latitude 32.70587 Longitude 103.80451

NATURE OF RELEASE

Type of Release	Oil and produced water	Volume of Release	20bbls of oil 50bbls of produced water	Volume Recovered	0bbls of oil 16bbls of produced water
Source of Release	Heater treater	Date and Hour of Occurrence	11-18-2013	Date and Hour of Discovery	11-18-2013 02:00a.m.
Was Immediate Notice Given?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom?	Geoffrey R. Leking -- NMOCD / James Amos - BLM		
By Whom?	Michelle Mullins	Date and Hour	11-18-2013 11:14 a.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.*


Gasket failed causing leak to hit the flame arrestor and caught the heater on fire. Replaced the heater treater with other equipment.

Describe Area Affected and Cleanup Action Taken.*

Initially 20bbls of Oil and 50bbls of produced water were released from a gasket on a heater treater that failed. We were able to recover 0bbls of Oil and 18bbls of produced water with a vacuum truck. The release was contained inside the tank battery and the location. All free fluid has been recovered. Tetra Tech will sample the spill and 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.

OIL CONSERVATION DIVISION

Signature: 	Approved by District Supervisor:		
Printed Name: Robert Grubbs Jr.			
Title: Senior Environmental Coordinator	Approval Date:	Expiration Date:	
E-mail Address: rgrubbs@concho.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 11-27-2013	Phone: 432-661-6601		

* Attach Additional Sheets If Necessary

G.W = 370'

SITE INFORMATION**Report Type: Work Plan****General Site Information:**

Site:	LPC 31 Federal #1					
Company:	COG Operating LLC					
Section, Township and Range	Sec 31	T 18S	R 32E			
Lease Number:	API # 30-025-37440					
County:	Lea County					
GPS:	32.70587° N			103.80451° W		
Surface Owner:	Federal					
Mineral Owner:						
Directions:	From intersection of Carlsbad HWY and HWY 243, go WEST on Hwy 243 for approximately 4.5 miles, turn NORTH onto CR 126A and continue for approximately 10.2 miles, turn WEST onto lease road and continue for apx. .8 miles, road curves SOUTH and continue for another 0.3 miles, turn EAST onto lease road for an addition .15 miles to location.					

Release Data:

Date Released:	11/18/2013
Type Release:	Oil and Produced Water
Source of Contamination:	Failed gasket
Fluid Released:	20 bbls oil 50 bbls produced water
Fluids Recovered:	0 bbls oil 16 bbls produced water

Official Communication:

Name:	Robert McNeil	Ike Tavaréz
Company:	COG Operating, LLC	Tetra Tech
Address:	One Concho Center 600 W. Illinois Ave.	4000 N. Big Spring Ste 401
City:	Midland Texas, 79701	Midland, Texas
Phone number:	(432) 686-3023	(432) 687-8110
Fax:	(432) 684-7137	
Email:	rmcneil@conchoresources.com	Ike.Tavaréz@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

HOBBS OCD**HOBBS OCD**

MAY 28 2014

Acceptable Soil RRAL (mg/kg)		
Benzene	Total BTEX	TPH
10	50	5,000

MAY 28

RECEIVED**RECEIVED**commented
5/28/14

5/28



TETRA TECH

May 16, 2014

Mr. Geoffrey Leking
Environmental Engineer Specialist
Oil Conservation Division, District 1
1625 North French Drive
Hobbs, New Mexico 88240

Re: Work Plan for the COG Operating LLC., LPC 31 Federal #1, Unit G, Section 31, Township 18 South, Range 32 East, Lea County, New Mexico.

Mr. Leking:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC. (COG) to assess a spill from the LPC 31 Federal #1, Unit G, Section 31, Township 18 South, Range 32 East, Lea County, New Mexico (Site). The spill site coordinates are N 32.70587°, W 103.80451°. 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 November 18, 2013, and released approximately twenty (20) barrels of oil and fifty (50) barrels of produced water from a failed gasket on a heater treater with zero (0) barrels of oil and sixteen (16) barrels of produced water recovered. The spill occurred on the pad inside the tank firewalls measuring approximately 30' x 100'. The initial C-141 form is enclosed in Appendix A.

Groundwater

No water wells were listed within Section 31. According to the NMOCD groundwater map, the average depth to groundwater in this area is approximately 275' below surface. The average depth to groundwater map is shown in 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-

Tetra Tech

4000 North Big Spring, Suite 401, Midland, TX 79705

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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 December 12, 2013, Tetra Tech personnel inspected and sampled the spill area. Three (3) auger holes (AH-1, AH-2, and AH-3) 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 results of the sampling are summarized in Table 1. The auger hole locations are shown on Figure 3.

Referring to Table 1, none of the auger hole samples were above the RRAL's for TPH or BTEX. The area of AH-1 did show a chloride high of 4,670 mg/kg at 0-1' and declined to 231 mg/kg at 1.1.5' below surface. The deeper samples showed chloride spikes to 2,700 mg/kg at 7'-7.5', 1,260 mg/kg at 8-8.5' and 1,490 mg/kg at 9-9.5' below surface.

The area of auger hole (AH-2) showed elevated chloride concentrations down to 2' to 3' below surface and declined with depth, then spiked to 1,420 mg/kg at 6'-6.5' below surface. The area of auger hole (AH-3) showed elevated chloride concentrations with a chloride high of 4,700 mg/kg at 6'-6.5' below surface. None of the auger holes were vertically defined.

On March 11, 2014, Tetra Tech personnel installed two (2) boreholes (BH-1 and BH-2) using a drilling rig to vertically define the chloride impact. Due to rig accessibility, BH-2 was installed between AH-1 and AH-2 and BH-3 was installed in the area of AH-3. The borehole locations are shown on Figure 3. The sampling results are summarized in Table 1. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix C.

Borehole (BH-1) showed elevated TPH and BTEX concentrations above the RRAL which then declined with depth to below the RRAL, at 6'-7' below surface. Borehole (BH-2) did not show TPH or BTEX concentrations above the RRAL.

Borehole (BH-1) did not show any significant chloride impact to the soils, with a chloride high of 952 mg/kg at 2'-3' below surface. In addition, the area of borehole (BH-2) also did not show a significant chloride impact to the soils. However, the sampling did show a chloride spike of 1,090 mg/kg at 6'-7' below surface.



Work Plan

According to the borehole data, BH-1 and BH-2 did not correlate to the auger hole data. Based on the evaluation, the impacted areas inside the facility appear to have hot spots of the hydrocarbon and chloride impacts in the subsurface soils. Due to the location of the spill, limited excavation will be performed around equipment, production and electrical lines and any remaining impact will be deferred until the abandonment of the facility.

COG proposes to remove all depths highlighted (green) in Table 1. The areas will be excavated to depths of approximately 1.0' to 3.0' below surface. The areas of AH-1 and AH-2 will be excavated to a depth of 1.0' and 2.0', respectively. The area of AH-3 (BH-1) will be excavated to a depth of 3.0' and then capped with either liner or clay material. All of the excavated material will be transported offsite for proper disposal. Once final excavation depths are achieved, the site will be backfilled with clean material and brought to grade.

Due to the location of the spill, the proposed excavation depths or deeper excavation may not be achieved due to wall cave ins, limited access, oil and gas equipment, electrical, structures or lines which 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.

Upon completion, a final report will be submitted to the NMOCD. 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



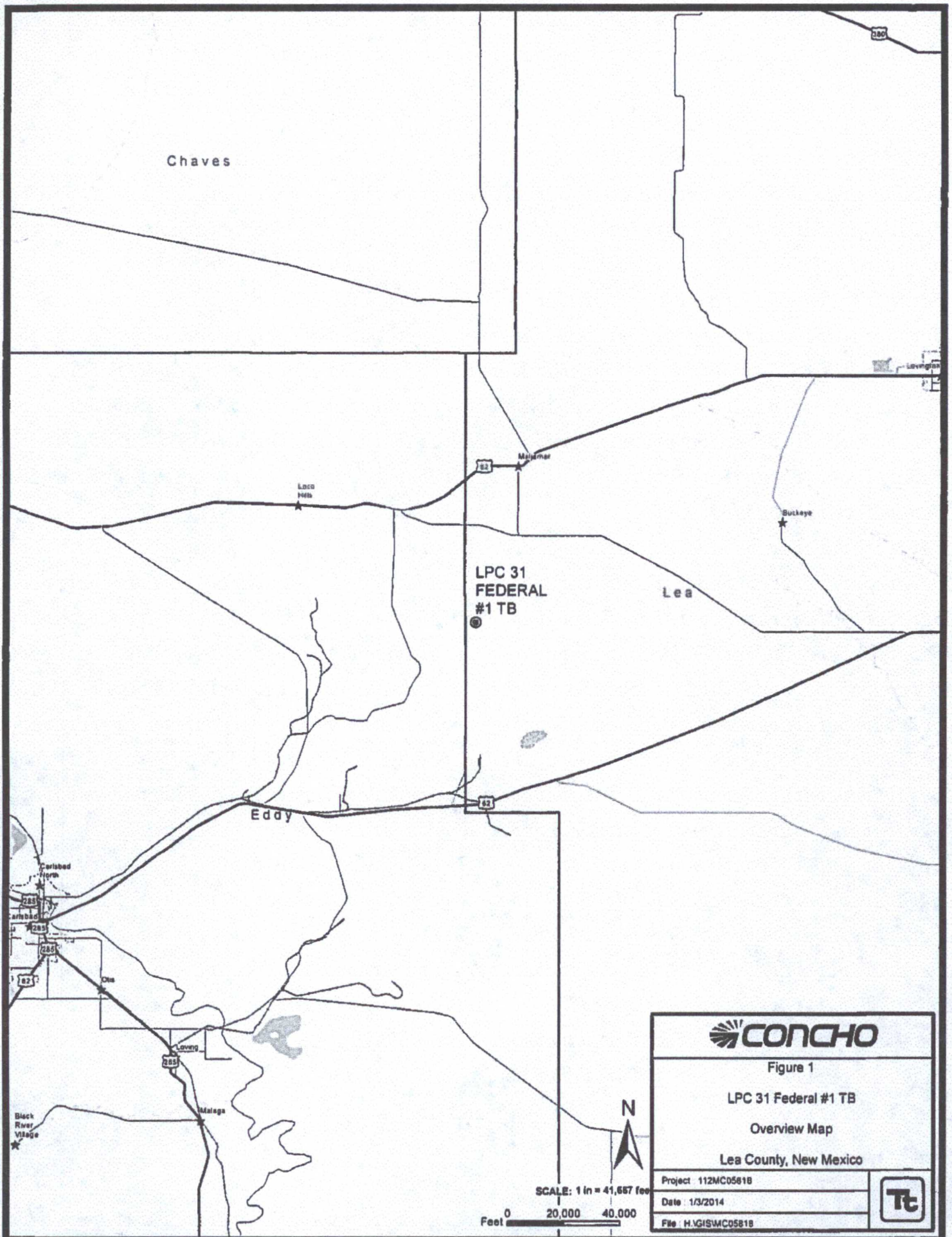
Ike Tavarez, PG
Project Manager

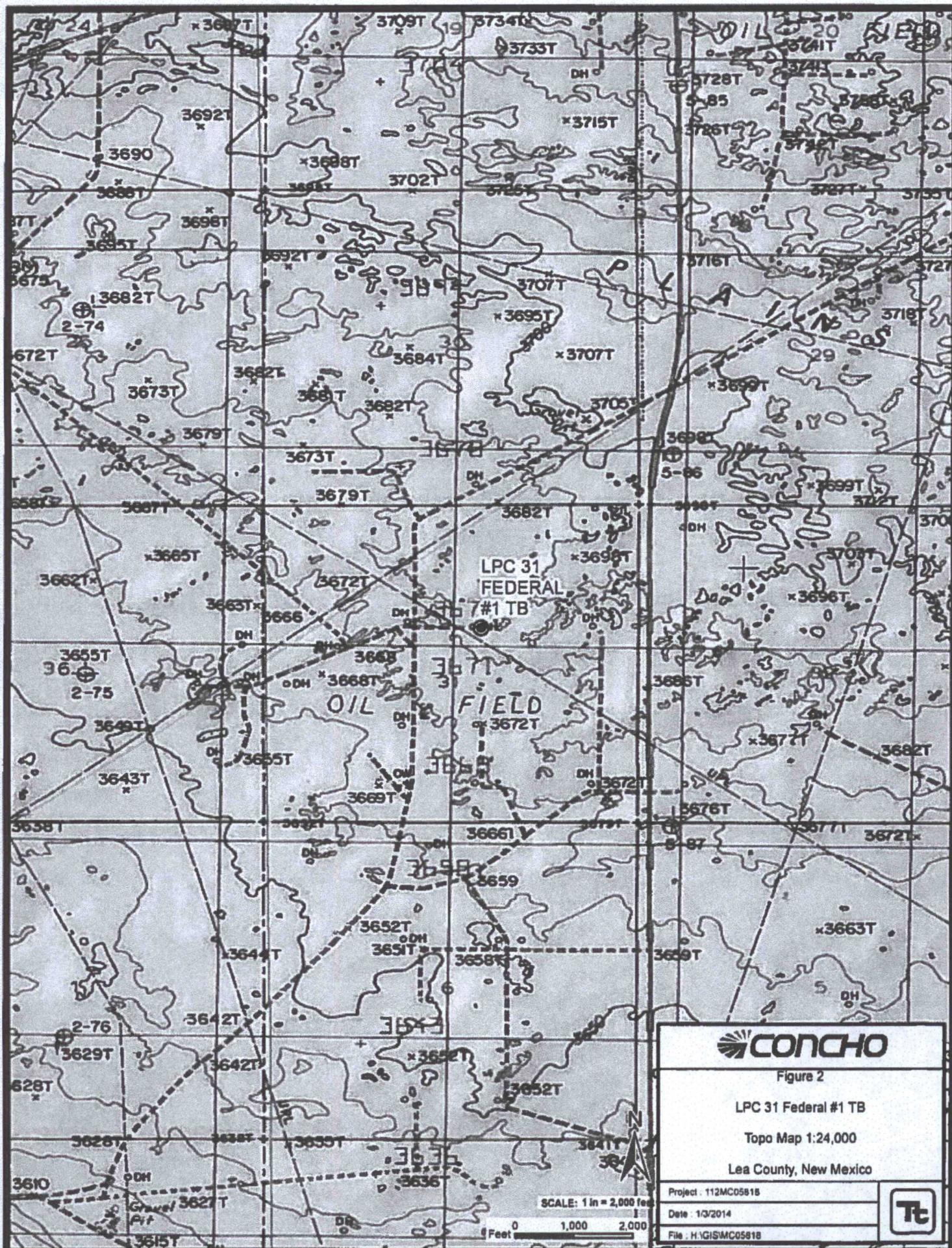
cc: Robert McNeill - COG
cc: Jeff Robertson - BLM

Table 1
COG Operating LLC.
LPC 31 Federal #1
Lea County, New Mexico

Sample ID	Sample Date	Sample Depth (ft)	BEB Depth (ft)	Soil Status		TPH (mg/kg)			Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylene (mg/kg)	Total BTEX (mg/kg)	Chloride (mg/kg)
				In-Situ	Removed	GRO	DRO	Total						
AH-3	12/12/2013	0-1	-	X		5.61	<50.0	5.61	<0.0200	<0.0200	0.0902	1.01	1.10	3,560
	"	1-1.5	-	X		-	-	-	-	-	-	-	-	2,350
	"	2-2.5	-	X		-	-	-	-	-	-	-	-	1,420
	"	3-3.5	-	X		-	-	-	-	-	-	-	-	454
	"	4-4.5	-	X		-	-	-	-	-	-	-	-	579
	"	5-5.5	-	X		-	-	-	-	-	-	-	-	1,290
	"	6-6.5	-	X		-	-	-	-	-	-	-	-	4,700
	"	7-7.5	-	X		-	-	-	-	-	-	-	-	2,820
	"	8-8.5	-	X		-	-	-	-	-	-	-	-	3,780
BH-1	3/11/2014	0-1	-	X		7,120	433	7,553	<0.400	<0.400	521	3,710	4,231	767
	"	2-3	-	X		4,510	188	4,698	<0.100	<0.100	79.4	582	661	952
	"	4-5	-	X		386	54.0	440	<0.0200	0.0981	48.6	599	638	571
	"	6-7	-	X		-	-	-	<0.0200	<0.0200	0.334	2.67	3.00	500
	"	9-10	-	X		-	-	-	-	-	-	-	-	500
	"	14-15	-	X		-	-	-	-	-	-	-	-	347
	"	19-20	-	X		-	-	-	-	-	-	-	-	114
	"													

(-) Not Analyzed
 (BEB) Below Excavation Bottom
 Proposed Excavation Depth
 Proposed cap - Liner or clay





LEASE ROAD

PASTURE

PAD

PASTURE

EXPLANATION

- AUGER HOLE SAMPLE LOCATIONS
- BORE HOLE SAMPLE LOCATIONS
- SPILL AREA

SCALE: 1 IN = 49 FEET

Feet 0 20 40



Figure 3

LPC 31 Federal #1 TB

Spill Assessment Map

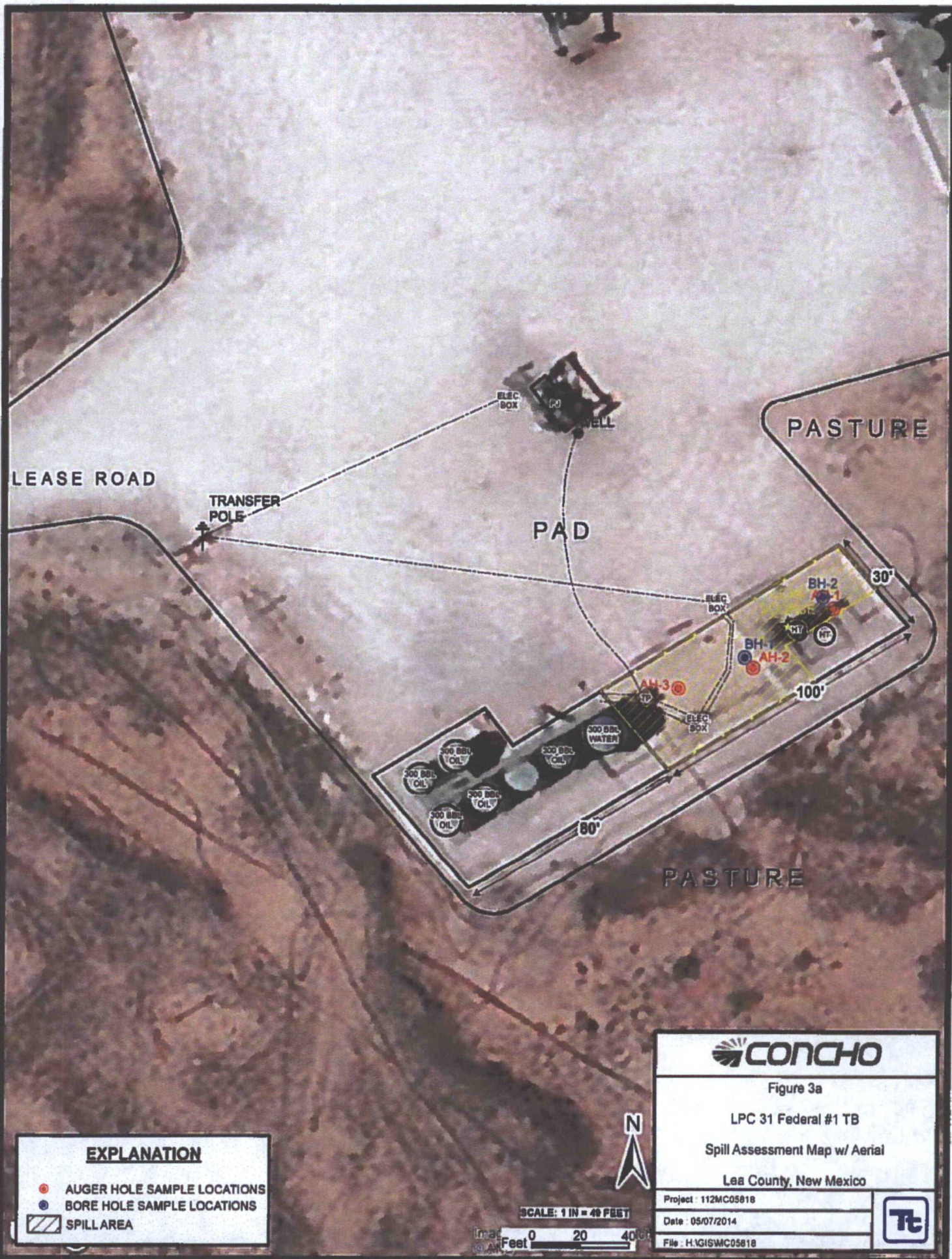
Lea County, New Mexico

Project : 112MC05818

Date : 4/3/2014

File : H:\GIS\WC05818





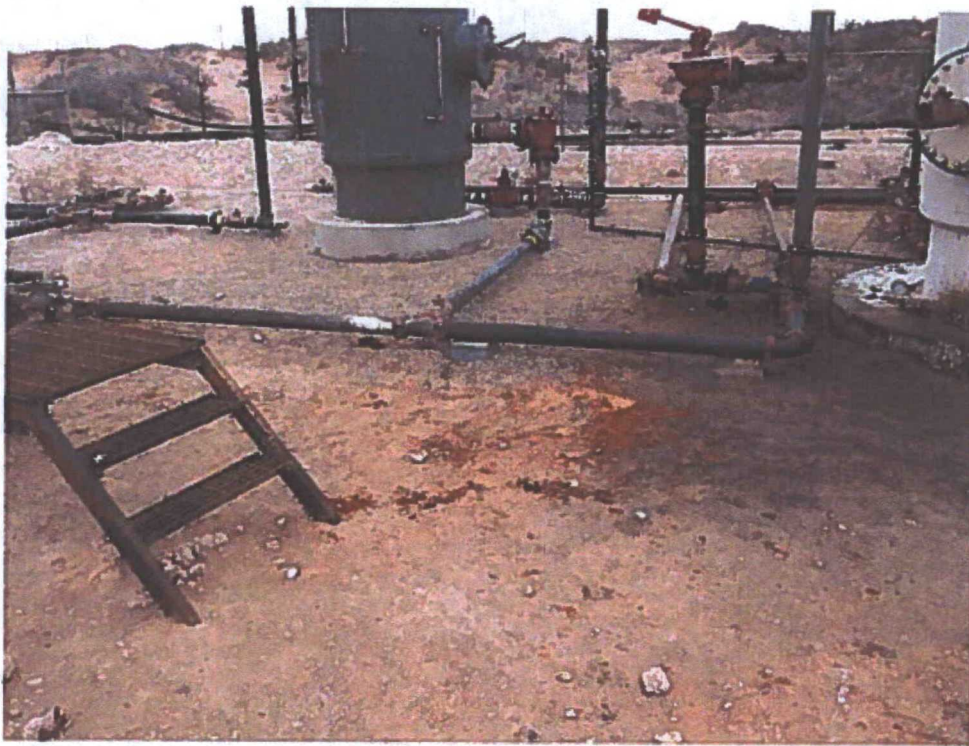
COG Operating LLC
LPC 31 Federal #1
Lea County, New Mexico



TETRA TECH



View South – Area of AH-1



View East – Area of AH-2

COG Operating LLC
LPC 31 Federal #1
Lea County, New Mexico



TETRA TECH



View Southwest – Area of AH-3

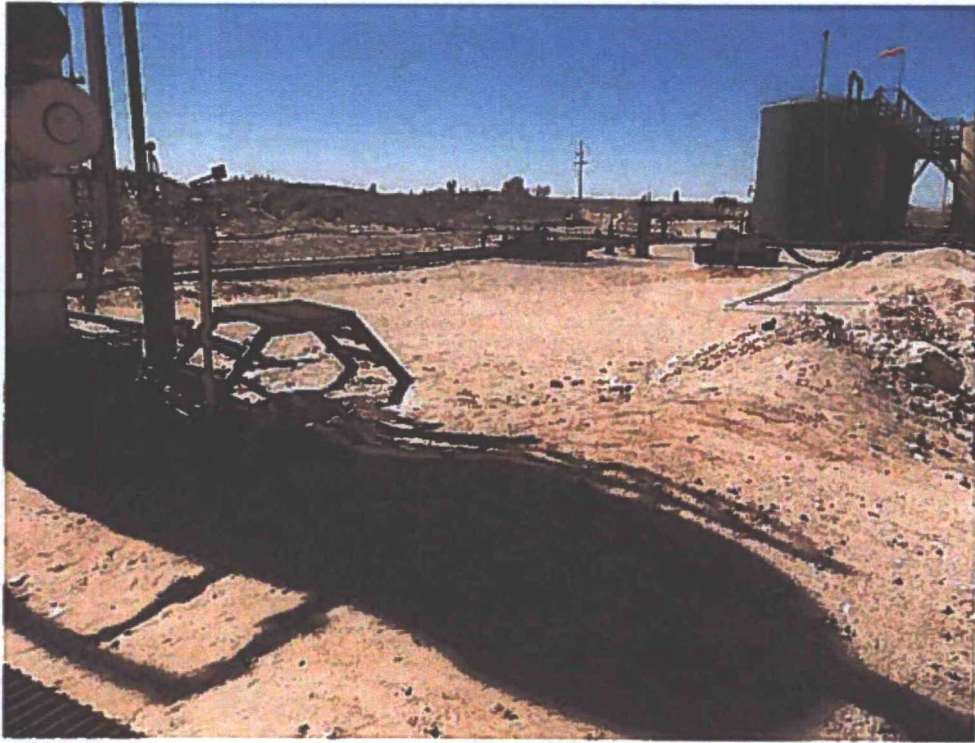


View South – Area of BH-1

COG Operating LLC
LPC 31 Federal #1
Lea County, New Mexico



TETRA TECH



View Southwest – Area of BH-2

Water Well Data
Average Depth to Groundwater (ft)
COG -LPC 31 Federal #1
Lea County, New Mexico

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
			271		

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
			261		

19 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
		101			130

17 South			32 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			32 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
			117		

19 South			32 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			33 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			33 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

19 South			33 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
- Field water level
- New Mexico Water and Infrastructure Data System

Summary Report

(Corrected Report)

Ike Tavarez
Tetra Tech
1901 N. Big Spring St.
Midland, TX 79705

Report Date: April 16, 2014

Work Order: 14031827



Project Location: Lea Co, NM
Project Name: COG/LPC 31 Fed #1
Project Number: 112MC05818

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
358268	BH-1 0-1'	soil	2014-03-11	00:00	2014-03-18
358269	BH-1 2-3'	soil	2014-03-11	00:00	2014-03-18
358270	BH-1 4-5'	soil	2014-03-11	00:00	2014-03-18
358271	BH-1 6-7'	soil	2014-03-11	00:00	2014-03-18
358272	BH-1 9-10'	soil	2014-03-11	00:00	2014-03-18
358273	BH-1 14-15'	soil	2014-03-11	00:00	2014-03-18
358274	BH-1 19-20'	soil	2014-03-11	00:00	2014-03-18
358275	BH-2 0-1'	soil	2014-03-11	00:00	2014-03-18
358276	BH-2 2-3'	soil	2014-03-11	00:00	2014-03-18
358277	BH-2 4-5'	soil	2014-03-11	00:00	2014-03-18
358278	BH-2 6-7'	soil	2014-03-11	00:00	2014-03-18
358279	BH-2 9-10'	soil	2014-03-11	00:00	2014-03-18
358280	BH-2 14-15'	soil	2014-03-11	00:00	2014-03-18
358281	BH-2 19-20'	soil	2014-03-11	00:00	2014-03-18
358282	BH-2 24-25'	soil	2014-03-11	00:00	2014-03-18
358283	BH-2 29-30'	soil	2014-03-11	00:00	2014-03-18
358284	BH-2 34-35'	soil	2014-03-11	00:00	2014-03-18

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)
358268 - BH-1 0-1'	<0.400 ¹	<0.400 Q _s	521 J _s , Q _s	3710 J _s , Q _s	433 Q _s	7120 ² J _s , Q _s
358269 - BH-1 2-3'	<0.100	<0.100 Q _s	79.4 J _s , Q _s	582 J _s , Q _s	188	4510 ³ J _s , Q _s

continued ...

¹Analyzed previously at 1x with no benzene. Dilution due to xylenes.

²Analyzed out of hold time.

³Analyzed out of hold time.

... continued

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)
358270 - BH-1 4-5'	<0.0200	0.0981 Qs	48.6 Jn, Qs	589 Jn, Qs	54.0	386 Qs
358271 - BH-1 6-7'	<0.0200	<0.0200 Qs	0.334 Qs	2.67 Qs		
358275 - BH-2 0-1'	<0.0400 ⁴	<0.0400	0.981	8.50	2780 Qs	67.6

Sample: 358268 - BH-1 0-1'

Param	Flag	Result	Units	RL
Chloride		767	mg/Kg	5

Sample: 358269 - BH-1 2-3'

Param	Flag	Result	Units	RL
Chloride		952	mg/Kg	5

Sample: 358270 - BH-1 4-5'

Param	Flag	Result	Units	RL
Chloride		571	mg/Kg	5

Sample: 358271 - BH-1 6-7'

Param	Flag	Result	Units	RL
Chloride		500	mg/Kg	5

Sample: 358272 - BH-1 9-10'

Param	Flag	Result	Units	RL
Chloride		500	mg/Kg	5

Sample: 358273 - BH-1 14-15'

Param	Flag	Result	Units	RL
Chloride		347	mg/Kg	5

Sample: 358274 - BH-1 19-20'

⁴Dilution due to hydrocarbons.

Param	Flag	Result	Units	RL
Chloride		114	mg/Kg	5

Sample: 358275 - BH-2 0-1'

Param	Flag	Result	Units	RL
Chloride		738	mg/Kg	5

Sample: 358276 - BH-2 2-3'

Param	Flag	Result	Units	RL
Chloride		643	mg/Kg	5

Sample: 358277 - BH-2 4-5'

Param	Flag	Result	Units	RL
Chloride		714	mg/Kg	5

Sample: 358278 - BH-2 6-7'

Param	Flag	Result	Units	RL
Chloride		1090	mg/Kg	5

Sample: 358279 - BH-2 9-10'

Param	Flag	Result	Units	RL
Chloride		385	mg/Kg	5

Sample: 358280 - BH-2 14-15'

Param	Flag	Result	Units	RL
Chloride		337	mg/Kg	5

Sample: 358281 - BH-2 19-20'

Param	Flag	Result	Units	RL
Chloride		361	mg/Kg	5

Sample: 358282 - BH-2 24-25'

Param	Flag	Result	Units	RL
Chloride		529	mg/Kg	5

Sample: 358283 - BH-2 29-30'

Param	Flag	Result	Units	RL
Chloride		95.0	mg/Kg	5

Sample: 358284 - BH-2 34-35'

Param	Flag	Result	Units	RL
Chloride		90.0	mg/Kg	5

Summary Report

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

Report Date: January 2, 2014

Work Order: 13121621



Project Location: Lea Co, NM
Project Name: COG/LPC 31 Fed #1
Project Number: 112MC05818

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
349055	AH-1 0-1'	soil	2013-12-12	00:00	2013-12-16
349056	AH-1 1-1.5'	soil	2013-12-12	00:00	2013-12-16
349057	AH-1 2-2.5'	soil	2013-12-12	00:00	2013-12-16
349058	AH-1 3-3.5'	soil	2013-12-12	00:00	2013-12-16
349059	AH-1 4-4.5'	soil	2013-12-12	00:00	2013-12-16
349060	AH-1 5-5.5'	soil	2013-12-12	00:00	2013-12-16
349061	AH-1 6-6.5'	soil	2013-12-12	00:00	2013-12-16
349062	AH-1 7-7.5'	soil	2013-12-12	00:00	2013-12-16
349063	AH-1 8-8.5'	soil	2013-12-12	00:00	2013-12-16
349064	AH-1 9-9.5'	soil	2013-12-12	00:00	2013-12-16
349065	AH-2 0-1'	soil	2013-12-12	00:00	2013-12-16
349066	AH-2 1-1.5'	soil	2013-12-12	00:00	2013-12-16
349067	AH-2 2-2.5'	soil	2013-12-12	00:00	2013-12-16
349068	AH-2 3-3.5'	soil	2013-12-12	00:00	2013-12-16
349069	AH-2 4-4.5'	soil	2013-12-12	00:00	2013-12-16
349070	AH-2 5-5.5'	soil	2013-12-12	00:00	2013-12-16
349071	AH-2 6-6.5'	soil	2013-12-12	00:00	2013-12-16
349072	AH-3 0-1'	soil	2013-12-12	00:00	2013-12-16
349073	AH-3 1-1.5'	soil	2013-12-12	00:00	2013-12-16
349074	AH-3 2-2.5'	soil	2013-12-12	00:00	2013-12-16
349075	AH-3 3-3.5'	soil	2013-12-12	00:00	2013-12-16
349076	AH-3 4-4.5'	soil	2013-12-12	00:00	2013-12-16
349077	AH-3 5-5.5'	soil	2013-12-12	00:00	2013-12-16
349078	AH-3 6-6.5'	soil	2013-12-12	00:00	2013-12-16
349079	AH-3 7-7.5'	soil	2013-12-12	00:00	2013-12-16
349080	AH-3 8-8.5'	soil	2013-12-12	00:00	2013-12-16

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)
349055 - AH-1 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00
349065 - AH-2 0-1'	<0.0200	<0.0200	<0.0200	<0.0200	<50.0	<4.00
349072 - AH-3 0-1'	<0.0200	<0.0200	0.0902	1.01	<50.0	5.61

Sample: 349055 - AH-1 0-1'

Param	Flag	Result	Units	RL
Chloride		4670	mg/Kg	4

Sample: 349056 - AH-1 1-1.5'

Param	Flag	Result	Units	RL
Chloride		231	mg/Kg	4

Sample: 349057 - AH-1 2-2.5'

Param	Flag	Result	Units	RL
Chloride		187	mg/Kg	4

Sample: 349058 - AH-1 3-3.5'

Param	Flag	Result	Units	RL
Chloride		231	mg/Kg	4

Sample: 349059 - AH-1 4-4.5'

Param	Flag	Result	Units	RL
Chloride		197	mg/Kg	4

Sample: 349060 - AH-1 5-5.5'

Param	Flag	Result	Units	RL
Chloride		373	mg/Kg	4

Sample: 349061 - AH-1 6-6.5'

continued ...

sample 349061 continued ...

Param	Flag	Result	Units	RL
Param	Flag	Result	Units	RL
Chloride		378	mg/Kg	4

Sample: 349062 - AH-1 7-7.5'

Param	Flag	Result	Units	RL
Chloride		2700	mg/Kg	4

Sample: 349063 - AH-1 8-8.5'

Param	Flag	Result	Units	RL
Chloride		1260	mg/Kg	4

Sample: 349064 - AH-1 9-9.5'

Param	Flag	Result	Units	RL
Chloride		1490	mg/Kg	4

Sample: 349065 - AH-2 0-1'

Param	Flag	Result	Units	RL
Chloride		6140	mg/Kg	4

Sample: 349066 - AH-2 1-1.5'

Param	Flag	Result	Units	RL
Chloride		2070	mg/Kg	4

Sample: 349067 - AH-2 2-2.5'

Param	Flag	Result	Units	RL
Chloride		1330	mg/Kg	4

Sample: 349068 - AH-2 3-3.5'

Param	Flag	Result	Units	RL
Chloride		903	mg/Kg	4

Sample: 349069 - AH-2 4-4.5'

Param	Flag	Result	Units	RL
Chloride		113	mg/Kg	4

Sample: 349070 - AH-2 5-5.5'

Param	Flag	Result	Units	RL
Chloride		133	mg/Kg	4

Sample: 349071 - AH-2 6-6.5'

Param	Flag	Result	Units	RL
Chloride		1420	mg/Kg	4

Sample: 349072 - AH-3 0-1'

Param	Flag	Result	Units	RL
Chloride		3560	mg/Kg	4

Sample: 349073 - AH-3 1-1.5'

Param	Flag	Result	Units	RL
Chloride		2350	mg/Kg	4

Sample: 349074 - AH-3 2-2.5'

Param	Flag	Result	Units	RL
Chloride		1420	mg/Kg	4

Sample: 349075 - AH-3 3-3.5'

Param	Flag	Result	Units	RL
Chloride		454	mg/Kg	4

Sample: 349076 - AH-3 4-4.5'

Param	Flag	Result	Units	RL
Chloride		579	mg/Kg	4

Sample: 349077 - AH-3 5-5.5'

Param	Flag	Result	Units	RL
Chloride		1290	mg/Kg	4

Sample: 349078 - AH-3 6-6.5'

Param	Flag	Result	Units	RL
Chloride		4700	mg/Kg	4

Sample: 349079 - AH-3 7-7.5'

Param	Flag	Result	Units	RL
Chloride		2820	mg/Kg	4

Sample: 349080 - AH-3 8-8.5'

Param	Flag	Result	Units	RL
Chloride		3780	mg/Kg	4