

AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.

App Number: pJXK1607033792

1RP - 4205

COG OPERATING LLC

3/10/2016

PJ XK 1607033792 4205

District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III ²⁷ Rio Brazos Road, Aztec, NM 87410 <u>ict IV</u> _J 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

	C	DPERA	TOR		🛛 Initi	al Report		Final Repo
Name of Company COG OPERATING LLC	C	ontact	R	obert M				
Address 600 West Illinois Avenue, Midland, TX 79701	I Te	elephone l	No. 4	32-230	-0077			
Facility Name Crockett State #002H	Fa	cility Typ)C	Tank B	attery			
Surface Owner State Mineral Ow	wher				Lease 1	No. (API#) 30-02	5-41080
LOCAT	TION	OF RE	LEASE					
Unit Letter Section Township Range Feet from the 1 H 20 21S 33E	North/Sc	outh Line	Feet from the	East/V	Vest Line	County	Lea	
Latitude 32.465			tude 103.58663					
	and the second se	FREL	Allow respectively the second se	6.11				#111 # 11
Type of Release Oil and produced water		Volume of	Release 70bls	ofoil	Volume I	Recovered		5bbls of oil oduced water
Source of Release			four of Occurrence		Date and	Hour of D		
Load line	A A A A A A A A A A A A A A A A A A A	01-25-201				14 11:00		
Was Immediate Notice Given?	1.8.8.	IF YES, To						
Yes 🗋 No 🗋 Not Req	uired		N	like Bra	tcher - NM	10CD		
By Whom? Robert Grubbs Jr.		Date and I	lour 01-26-2014	4:58p	m		1211	
Was a Watercourse Reached?		IFYES, Vo	olume Impacting	the Wate	rcourse.			
It'a Watercourse was Impacted, Describe Fully.*		Sector Sector	and the second strength with the local second s					
Describe Cause of Problem and Remedial Action Taken.*								
Someone had open the load line going to the water tank on purpose. Describe Area Affected and Cleanup Action Taken.* Initially 7bbls of oil and 120bbls of produced water were released. V All free fluids have been recovered. Concho will have the spill site s remediation work plan to the NMOCD for approval prior to any sign	We were sampled nificant r	able to rec to delineat remediation	e any possible con n work.	ntaminal	ion from t	he release (ind we w	vill present a
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* Attach Additional Sheets If Necessary

SITE INFORMATION

GW=163' [T aw=150')

Sile: Crockett State #2H Company: COG Operating LLC Section, Township and Range Unit H Sec 20 T 21S R 33E Lease Number: API-30-0225-41080 County: Lee County Good County: Lee County Good County: Lee County: Lee County: Lee County: Lee County: Lee County: County: Lee County: Lee County: Init H Sec 20 T 21S R 32 Mineral Owner: State Mineral Owner: State Trom Intersection of Hwy 176 and CR 27-A (Marathon Road), go 2.2 miles east on in un right (south) go 3.7 miles on lease road, turn right (west) go 4.8 miles and turn and go 1.9 miles to location. Location: Bate ReleaseData: Diate Released: 1/25/2014 Type Release: Coil and Produce Water Fluid Recovered: 5 bibls of Oil, 120 bibls of Produced Water Fluids Recovered: S bibls of Orduced Water Official Communication: Load Line Tetra Tech Address: One Concho Center 4000 N. Big Spring Gov Willinots Ave, Suite 401 City: Midland Texas, 17701 Midland Texas Phone number: (432) 688-3023 (432) 682-4559 Fax: Ge S	neral Site Inform	mation:		ort Type: V			
Company: COG Operating LLC Section, Township and Range Unit H Sec 20 T 21S R 33E Lease Number: API-30-025-41080 County: Lea County GPS: 32.46523° N 103.58663° W Surface Owner: State Ninseral Owner: State Mineral Owner: From intersection of Hwy 176 and CR 27-A (Marathon Road), go 2.2 miles east on 1 um right (south) go 3.7 miles on lease road, turn right (west) go 4.8 miles and turn 1 and go 1.9 miles to location. Release Data: Date Released: 1/25/2014 State Base: Oil and Produce Water Source of Contamination: Load Line Fluid Recovered: 5 bbls of Oil, 12 0 bbls of Produced Water Official Communication: Load Line Name: Robert McNelll Company: CoG Operating, LLC Company: CoG Operating, LLC Company: CoG Operating, LLC Childs Recovered: 5 bbls of Oil, 15 bbls of Produced Water Robert McNell Ike Tavarez Company: Cod Operating, LLC Tetra Tech Address: Opera		induoit.	Crockett Sta	to #2H			
Section, Township and Range Unit H Sec 20 T 21S R 33E Lease Number: AP1-30-025-41080 Ocounty: Lea County Image: County: Image: Counts: Image: Counts: <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>							
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Country: Lee County GPS: 32.46523° N 103.58663° W Surface Owner: State Mineral Owner: From intersection of Hwy 176 and CR 27-A (Marathon Road), go 2.2 miles east on 1 um right (south) go 3.7 miles on lease road, turn right (west) go 4.8 miles and turn and go 1.9 miles to location. Release Data: Directions: Date Released: 1/25/2014 Type Release: Oil and Produce Water Source of Contamination: Lead Line Fluids Released: 7 bils of Oil, 120 bils of Produced Water Official Communication: Sbils of Oil, 120 bils of Produced Water Official Communication: Ike Tavarez Company: COG Operating, LLC Tetra Tech Address: Address: One Concho Center 600 W. linois Ave. Suite 401 City: Midland Texas, 79701 Phone number: (432) 684-7137 Email: monell@conchoresources.com Email: monell@conchoresources.com Water Sources <1,000 ft, Private <200 ft.		o una runge			11 210	INCOL	
GPS: 32.46523° N 103.58663° W Strace Owner: State Mineral Owner: From intersection of Hwy 176 and CR 27-A (Marathon Road), go 2.2 miles east on 1 Unright (south go 3.7 miles on lease road, turn right (west) go 4.8 miles and turn and go 1.9 miles to location. Release Data: 1/25/2014 Date Released: 1/125/2014 Date Released: 1/25/2014 Date Released: 1/25/2014 Date Released: Clad Une Fluid Recovered: 5 bbls of Oil, 120 bbls of Produced Water Company: Code Contamination: Name: Robert McNeill Ware: Code Operating, LLC Company: COG Operating, LLC Company: COG Operating, LLC Company: COG Operating, LLC Address: One Concho Center 4000 N. Big Spring 600 W. Illinois Ave. City: Midland Texas, 79701 Midland Texas, 79701 Midland, Texas Phone number (432) 686-3023 City: (432) 686-3023 Water Source 20 Soft Da				1000			
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Mineral Owner: From intersection of Hwy 176 and CR 27-A (Marathon Road), go 2.2 miles east on 1 Directions: From intersection of Hwy 176 and CR 27-A (Marathon Road), go 2.2 miles east on 1 um right (south) go 3.7 miles on lease road, turn right (west) go 4.8 miles and turn and go 1.9 miles to location. Release Data: Date Released: Date Released: 1/25/2014 Type Release: Dil and Produce Water Source of Contamination: Load Line Fluid Released: 7 bbis of Oil, 120 bbis of Produced Water Official Communication: Name: COG Operating, LLC Tetra Tech Address: One Conche Center 4000 N. Big Spring Suite 401 City: Midiand, Texas, 78701 Midiand, Texas, 78701 Midiand, Texas Phone number: (432) 686-3023 (432) 684-3023 (432) 682-4559 Fax: (432) 684-3023 Water Source <1,000 ft, Private <200 ft.			State		Carlo State		
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City: Midland, Texas, 79701 Midland, Texas Phone number: (432) 686-3023 (432) 682-4559 Fax: (432) 682-4559 [432) 682-4559 Fax: (432) 682-7137 [ike.tavarez@tetratech.com] Email: mcneeill@conchoresources.com [ike.tavarez@tetratech.com] Ranking Criteria [ike.tavarez@tetratech.com] [ike.tavarez@tetratech.com] Popth to Groundwater: Ranking Score Site Data >50 ft 20 [ike.tavarez@tetratech.com] Support to Groundwater: Ranking Score Site Data >100 ft. 0 0 0 Water Source <1,000 ft., Private <200 ft.					Charles State		y spring
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Fax: (432) 684-7137 Email: mcneill@conchoresources.com Ranking Criteria ike.tavarez@tetratech.com Ranking Criteria 20 So ft 20 50 ft 20 50-99 ft 10 >100 ft 0 WellHead Protection: Ranking Score Water Source <1,000 ft., Private <200 ft.			01				
Email: mcneill@conchoresources.com ke.tavarez@tetratech.com Ranking Criteria Popth to Groundwater: Ranking Score Site Data -50 ft 20 50.00 50.00 50.99 ft 10 0 0 >-100 ft 0 0 0 WeilHead Protection: Ranking Score Site Data Water Source <1,000 ft., Private <200 ft.	one number:	(432) 686-3023				(432) 682-	4559
Ranking Criteria Depth to Groundwater: Ranking Score Site Data <50 ft	C	(432) 684-7137					
Depth to Groundwater: Ranking Score Site Data <50 ft	ail:	rmcneill@concho	resources.com	1	1. Jan 1977	ike.tavare	z@tetratech.com
20 20 50-99 ft 10 >100 ft 0 WellHead Protection: Ranking Score Water Source <1,000 ft., Private <200 ft. 20 Water Source >1,000 ft., Private >200 ft. 0 Water Source >1,000 ft., Private >200 ft. 0 Surface Body of Water: Ranking Score 200 ft 1,000 ft. 10 >1,000 ft. 0 Total Ranking Score: 0 MAY 2 9 2014 MAY 2 9 2014 Acceptable Soil RRAL (mg/kg) Benzene Benzene Total BTEX TPH 10 50 5,000		ter:		Ranking Score			Site Data
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Water Source >1,000 ft., Private >200 ft. 0 0 Surface Body of Water: Ranking Score Site Data <200 ft.						1	Site Data
Surface Body of Water: <200 ft. 200 ft - 1,000 ft. >1,000 ft. Total Ranking Score: 0 MAY 2 9 2014 Acceptable Soil RRAL (mg/kg) Benzene Total BTEX TPH 10 50 5,000 I RECEIVED				and the owner water and the second			0
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HOBBS OCD

MAY 28 2014

RECEIVED

TETRA TECH

May 15, 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., Crockett State #2H, Unit H, Section 20, Township 21 South, Range 33 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 Crockett State #2H, Unit H, Section 20, Township 21 South, Range 33 East, Lea County, New Mexico (Site). The spill site coordinates are N 32.46523°, W 103.58663°. 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 January 25, 2014, and released approximately seven (7) barrels of oil and one hundred and twenty (120) barrels of produced water from a load line with five (5) barrels of oil and fifteen (15) barrels of produced water recovered. The spill is located on the pad measuring approximately 90' x 160'. The initial C-141 form is enclosed in Appendix C.

Groundwater

No water wells were listed within Section 20. According to the NMOCD groundwater map, the average depth to groundwater in this area is approximately 150' below surface. The average depth to groundwater map is shown in Appendix A.



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 April 10, 2014, Tetra Tech personnel inspected and sampled the spill area. Seven (7) auger holes (AH-1 through AH-7) 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 B. 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 exceeded the RRAL's for TPH and BTEX.

The areas of AH-6 did not show a significant chloride impact to the soils with a chloride high of 867 mg/kg and declined with depth. In addition, the area of AH-7 detected chloride spikes at 4.0', 5.0' and 6.0' of 2,300 mg/kg, 4,340 mg/kg and 1,490 mg/kg, respectively. The deeper samples declined with depth to 398 mg/kg at 7.0'. The remaining auger holes (AH-1, AH-2, AH-3, AH-4 and AH-5) showed elevated chloride concentrations ranging from 1,050 mg/kg to 5,850 mg/kg at 1.0' to 2.0' below surface.

Work Plan

COG proposes to excavate the impacted soil highlighted (green) in Table 1 and shown on Figure 4. The areas of AH-1 through AH-5 will be excavated 1.0' to 2.0' to remove the elevated chloride concentrations in the shallow soils. A trench will be installed in the area of AH-7 to re-evaluate and confirm the chloride concentrations. Based on the results, the area will be properly addressed. 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



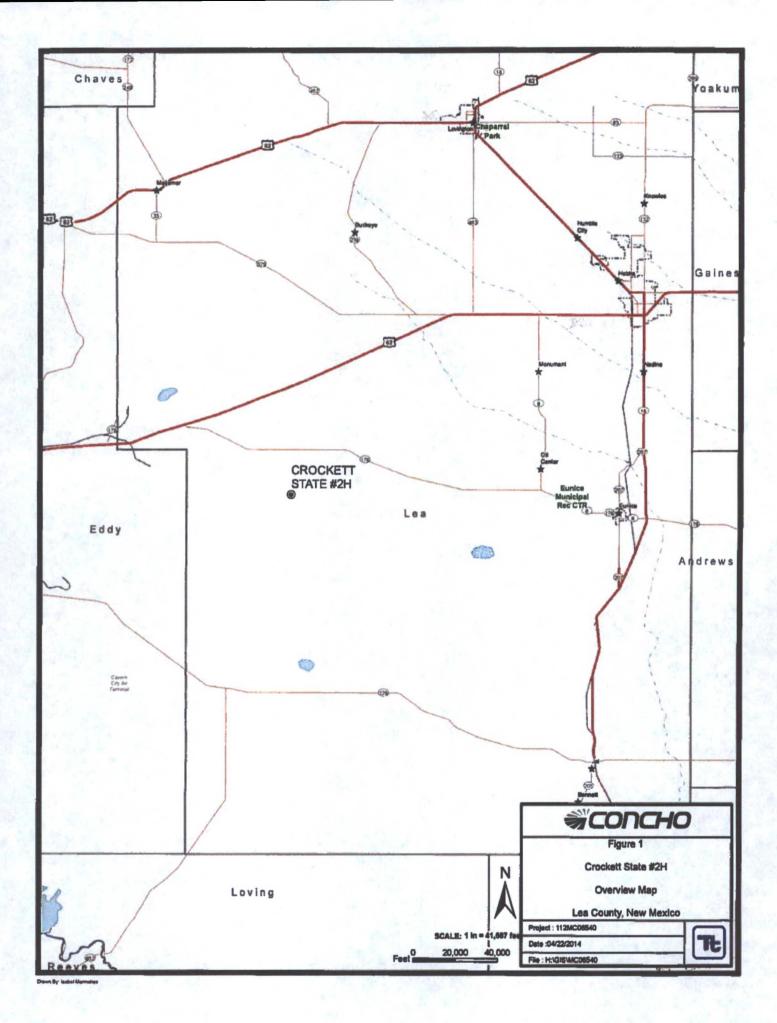
to be removed due to safely concerns. As such, Tetra Tech will excavate the soils to the maximum extent practicable. If the impacted soil is not accessible, the soil will be deferred until the abandonment of the facility.

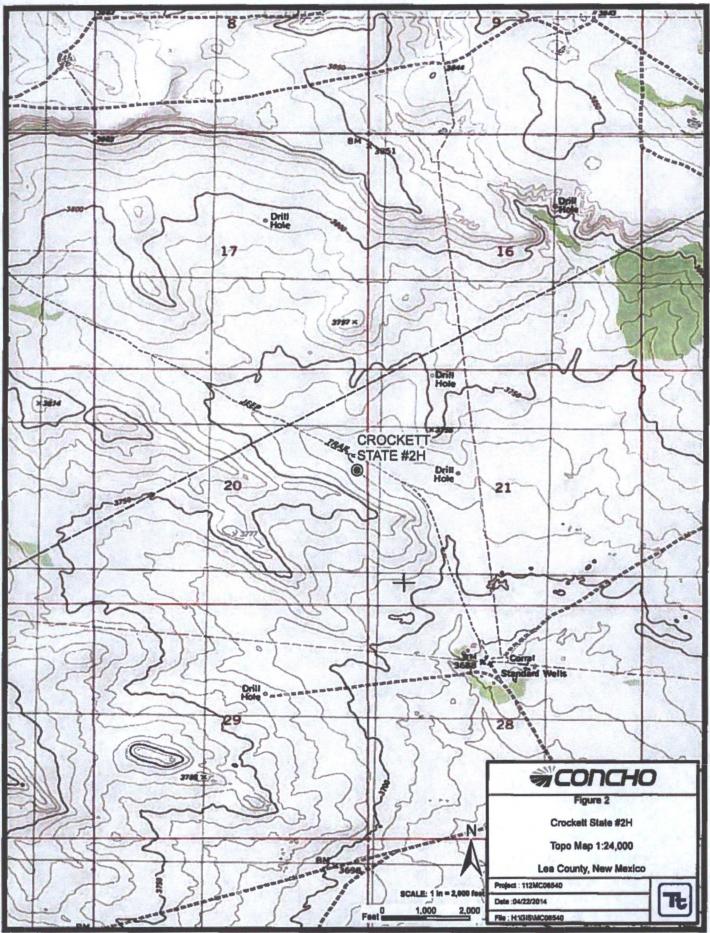
Upon completion, a final report will be submitted to the NMOCD. If you have any questions or comments concerning the assessment or the proposed remediation activities for this site, please call me at (432) 682-4559.

Respectfully submitted, TETRA TECH

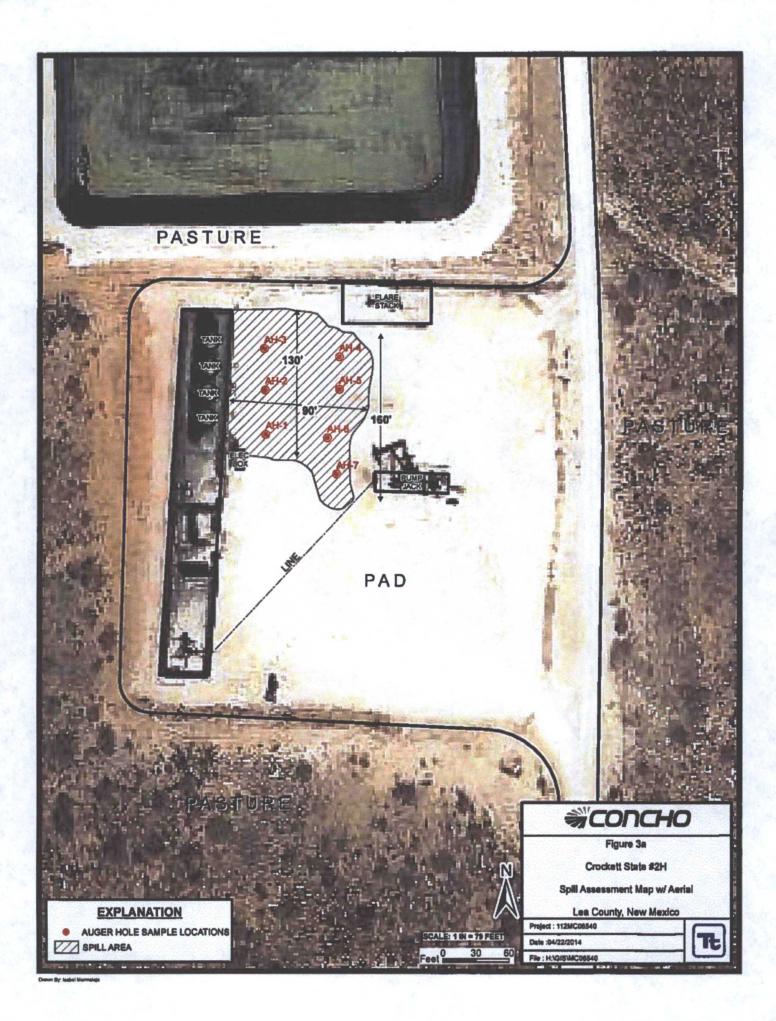
Ike Tavarez, PG Project Manager

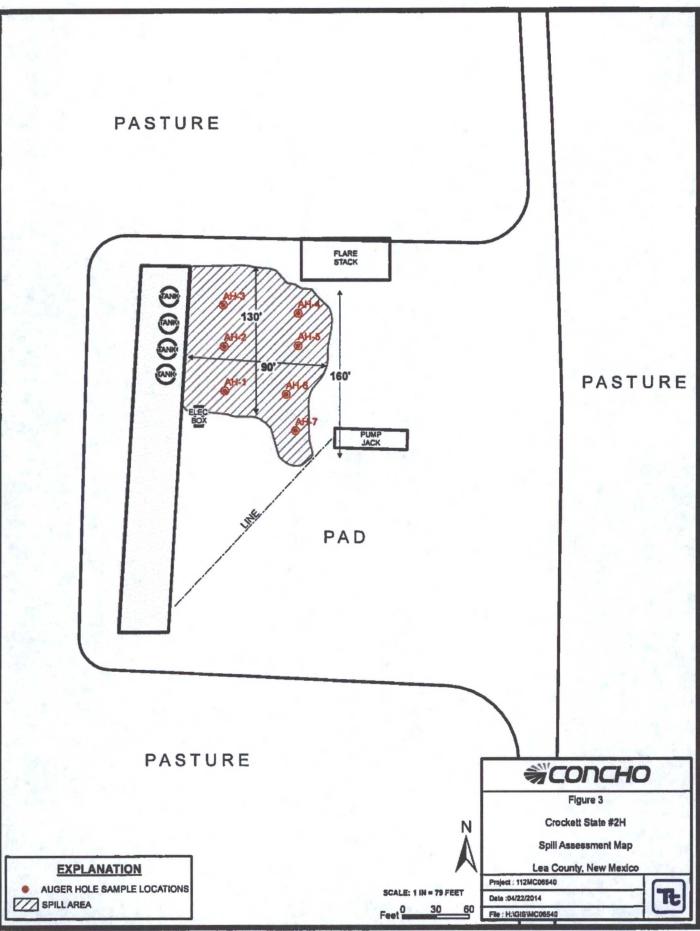
cc: Robert McNeill - COG

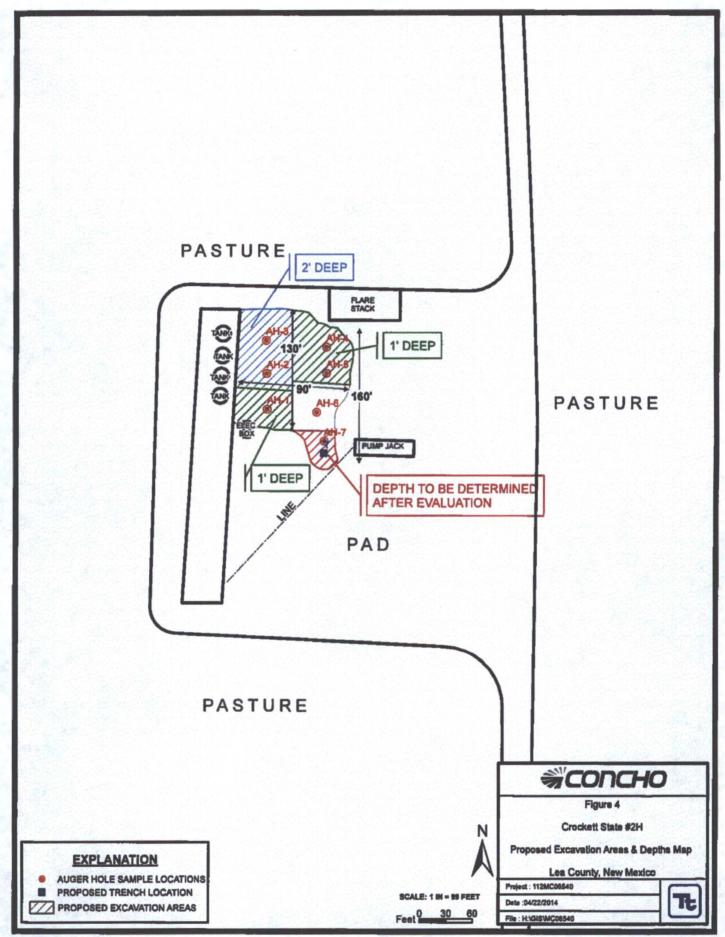




Crown By lasked Marmeteja







Drewn By Isabel Marmalaja

Table 1 COG Operating LLC. Crockett St 2H Lea County, New Mexico

									1					
	Sample	Sample	BEB	Soil	Soil Status	L	TPH (mg/kg)	(6	Benzene	Toluene	Ethiybenzene	Xylene	Total	Chloride
	Date	Depth (ft)	Depth (ft)	In-Situ	Removed	GRO	DRO	Total	(Ba/gm)	(mg/kg)	(BM/gm)	(mg/kg)	BTEX (mg/kg)	(mg/kg)
AH-1	4/10/2014	6-1		×		<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	1,380
	-	1-1.5		×				•						873
	-	2-2.5		×		•								670
	-	3-3.5	•	×		•		•			•		•	426
AH-2	4/10/2014	6-1	•	×		<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	4,180
	-	1-1.5	•	×		1	1	1		,	•	•	•	1,080
		2-2.5	•	×			•	,		·	•			122
	-	3-3.5		×		1.		1.00		•			•	<20.0
AH-3	4/10/2014	0-1	•	×		<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	5,850
	-	1-1.5		×		•	•			n	•	1		1,320
		2-2.5	-	×		-	•	1.	•	-			•	141
	•	3-3.5	•	×		•	•	-				•		131
AH-4	4/10/2014	6-1	•	×		<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	1,050
		1-1.5		×		•		•		•				221
		2-2.5		×										40.0
		3-3.5	•	×		•								<20.0

Table 1 COG Operating LLC. Crockett St 2H Lea County, New Mexico

Chloride	(mg/kg)	4,600	493	<20.0	<20.0	867	<20.0	<20.0	306	103	204	<20.0	153	2,300	4,340	1,490	398	249	199
Total	BTEX (mg/kg)	0.697	•			<0.0200				000002			•						
Yulana	(By/Gw)	0.697	•		•	<0.0200		,	•	000002						•		•	
Ethiohanzana	(mg/kg)	<0.0200	•			<0.0200				<0.0200									
Toltiene	(mg/kg)	<0.0200	•	•		<0.0200			•	00000>			•			•			
Renzene	(mg/kg)	<0.0200			-	<0.0200			•	<0.0200			-				•		
()	Total	1493			•	<50.0			•	<50.0				•		•		•	•
TPH (mg/kg)	DRO	1,460				<50.0				<50.0	•				•	•			
F	GRO	33.2		•	•	<4.00	•		•	<4.00	•	•	•	•	•	•		•	•
Soil Status	Removed																		
Soil	In-Situ	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×	×
BEB	Depth (ft)			•	•	•	,	•				•	•			•			ı
Sample	Depth (ft)	0-1	1-1.5	2-2.5	3-3.5	0-1	1-1.5	2-2.5	3-3.5	6-1	1-1.5	2-2.5	3-3.5	4-4.5	5-5.5	6-6.5	7-7.5	8-8.5	9-9.5
Samole	Date	4/10/2014	=	=	=	4/10/2014	=	-		4/10/2014	-	-	-		-	-	-	-	
	Sample ID	AH-5				AH-6				AH-7				т					

(-) Not Analyzed (BEB) Below Excavation Bottom

Proposed Excavation Depths

Proposed Trench

-

COG Operating LLC Crockett St. #2H Tank Battery Lea County, New Mexico





View East - Area of AH-1



View North - Areas of AH-1, AH-2, and AH-3

COG Operating LLC Crockett St. #2H Tank Battery Lea County, New Mexico





View South - Areas of AH-4, AH-5, and AH-6



View East - Areas of AH-6 and AH-7

Water Well Data Average Depth to Groundwater (ft) COG - Crockett St. #2H Tank Battery Lea County, New Mexico

	20 S	outh		33 Eas	t
6	5 325	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

	411	South		34 E92	L	
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	

	20 Sc	outh	34	East	
6	5	4 125	3	2	1
7	8	9	10	11	12
18	17 128	16	15	14	13
19	20	21	22	23	24
30	29	28	27	28	25
31	32	33	34 82	35	36

	20 S	outh		35 Eas	t
6 58 64	5 64	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 65	32	33	34	35	36

21 S	outh		33 East	
5	4	3	2 79	1
8	9	10	11 150	12
17	16	15	14	13
20 SITE	21	22	23	24
29	28 179	27	26	25
32	33 180	34	35	36
	5 8 17 20 <u>SITE</u> 29	8 9 17 16 20 21 SITE 29 29 28 179 179	5 4 3 8 9 10 17 16 15 20 21 22 SITE 29 28 27 179 179 179 16	5 4 3 2 79 6 9 10 11 150 17 16 15 14 20 21 22 23 SHTE 29 28 27 26 179 179 100 11 150

_		69	E	-	_
	21 S	outh		34 Eas	t
6	5	4 95	3	2	1
7	8 120	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28 140	27	26	25
31	32	33	34	35	36

22 :	South			
5	4	3	2	1
8	9	10	11	12
17	16	15	14 382	13
20	21	22	23	24
29	28	27	26	25
32	33	34	35	36
	5 8 17 20 29	6 9 17 16 20 21 29 28	5 4 3 6 9 10 17 16 15 20 21 22 29 28 27	5 4 3 2 6 9 10 11 17 16 15 14 382 360 20 21 22 23 29 28 27 26

15	1.4			
-	4	3	2	1
8	9	10	\$1	12
17	16	15	14	13
20	21	22	23	24
29	28	27	25	25
32	33	34	35	36
	17 20 29	17 16 20 21 29 28	17 16 15 20 21 22 29 28 27	17 16 15 14 20 21 22 23 29 28 27 26

	22 :	South		34 East	
6	5	4	3	2	1
7	6	9	10	11 30	12 80
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

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

Report Date: A	pril 16, 2014
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Work Order: 14041126

Project	Location:	Lea Co, NM	
Project	Name:	COG/Crockett St 2H	
Project	Number:	112MC06540	

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
360226	AH-1 0-1'	soil	2014-04-10	00:00	2014-04-11
360227	AH-1 1-1.5'	soil	2014-04-10	00:00	2014-04-11
360228	AH-1 2-2.5'	soil	2014-04-10	00:00	2014-04-11
360229	AH-1 3-3.5'	soil	2014-04-10	00:00	2014-04-11
360230	AH-2 0-1'	soil	2014-04-10	00:00	2014-04-11
360231	AH-2 1-1.5'	soil	2014-04-10	00:00	2014-04-11
360232	AH-2 2-2.5'	soil	2014-04-10	00:00	2014-04-11
360233	AH-2 3-3.5'	soil	2014-04-10	00:00	2014-04-11
360234	AH-3 0-1'	soil	2014-04-10	00:00	2014-04-11
360235	AH-3 1-1.5'	soil	2014-04-10	00:00	2014-04-11
360236	AH-3 2-2.5'	soil	2014-04-10	00:00	2014-04-11
360237	AH-3 3-3.5'	soil	2014-04-10	00:00	2014-04-11
360238	AH-4 0-1'	soil	2014-04-10	00:00	2014-04-11
360239	AH-4 1-1.5'	soil	2014-04-10	00:00	2014-04-11
360240	AH-4 2-2.5'	soil	2014-04-10	00:00	2014-04-11
360241	AH-4 3-3.5'	soil	2014-04-10	00:00	2014-04-11
360242	AH-5 0-1'	soil	2014-04-10	00:00	2014-04-11
360243	AH-5 1-1.5'	soil	2014-04-10	00:00	2014-04-11
360244	AH-5 2-2.5'	soil	2014-04-10	00:00	2014-04-11
360245	AH-5 3-3.5'	soil	2014-04-10	00:00	2014-04-11
360246	AH-6 0-1'	soil	2014-04-10	00:00	2014-04-11
360247	AH-6 1-1.5'	soil	2014-04-10	00:00	2014-04-11
360248	AH-6 2-2.5'	soil	2014-04-10	00:00	2014-04-11
360249	AH-6 3-3.5'	soil	2014-04-10	00:00	2014-04-11
360250	AH-7 0-1'	soil	2014-04-10	00:00	2014-04-11
360251	AH-7 1-1.5'	soil	2014-04-10	00:00	2014-04-11
360252	AH-7 2-2.5'	soil	2014-04-10	00:00	2014-04-11
360253	AH-7 3-3.5'	soil	2014-04-10	00:00	2014-04-11
360254	AH-7 4-4.5'	soil	2014-04-10	00:00	2014-04-11
360255	AH-7 5-5.5'	soil	2014-04-10	00:00	2014-04-11

	16, 2014		Work Order:	14041120	Page N	umber: 2 of 6
				Date	Time	Date
	Description	and the second se	trix	Taken	Taken	Received
	AH-7 6-6.5'		oil	2014-04-10	00:00	2014-04-11
360257	AH-7 7-7.5'	S	oil	2014-04-10	00:00	2014-04-11
360258	AH-7 8-8.5'	S	oil	2014-04-10	00:00	2014-04-11
360259	AH-7 9-9.5'	50	oil	2014-04-10	00:00	2014-04-1
			C.C.C.L			
1998 C. 2 &	Benzene	Toluene	BTEX Ethylbenzene	Xylene	TPH DRO - NEW DRO	TPH GRO GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
360226 - AH-1 0-1	New York Construction of the second second	< 0.0200	<0.0200	<0.0200 gr.g.	<50.0 q.	<4.00
360230 - AH-2 0-1		<0.0200	<0.0200	<0.0200 qr.q.	<50.0 Q.	<4.00
360234 - AH-3 0-1	A REAL PROPERTY AND A REAL	<0.0200	< 0.0200	<0.0200 qr.q.	<50.0 q.	<4.00
360238 - AH-4 0-1	and the second	<0.0200	<0.0200	<0.0200 qr.q.	<50.0 Q.	<4.00
360242 - AH-5 0-1	And the second	<0.0200	<0.0200	0.697 qr,q.	1460 Q.	33.2
360246 - AH-6 0-1 360250 - AH-7 0-1		<0.0200 <0.0200	<0.0200 <0.0200	<0.0200 gr.gs <0.0200 gr.gs	<50.0 q. <50.0 q.	<4.00 <4.00
Sample: 360226 -	AH-1 0-1'					
						_
Param	Flag		Result		Units	R
and the provide state of the provide state of the state o	Flag		Result 1380	<u></u>	Units mg/Kg	
Chloride Sample: 360227 -	AH-1 1-1.5'		story is freedy which is the start of the story of the start of the story of the st		A start of the local start start and starts in the start of the start	
Param Chloride Sample: 360227 - Param Chloride			1380		mg/Kg	RI
Chloride Sample: 360227 - Param	AH-1 1-1.5' Flag		1380 Result		mg/Kg Units	RJ
Chloride Sample: 360227 - Param Chloride Sample: 360228 - Param Chloride Sample: 360229 -	AH-1 1-1.5' Flag AH-1 2-2.5' Flag AH-1 3-3.5'		1380 Result 873 Result 670		mg/Kg Units mg/Kg Units mg/Kg	RI
Chloride Sample: 360227 - Param Chloride Sample: 360228 - Param Chloride Sample: 360229 - Param	AH-1 1-1.5' Flag AH-1 2-2.5' Flag		Result 873 Result 670 Result		mg/Kg Units mg/Kg Units mg/Kg Units	RI
Chloride Sample: 360227 - Param Chloride Sample: 360228 - Param Chloride Sample: 360229 -	AH-1 1-1.5' Flag AH-1 2-2.5' Flag AH-1 3-3.5'		1380 Result 873 Result 670		mg/Kg Units mg/Kg Units mg/Kg	RI
Chloride Sample: 360227 - Param Chloride Sample: 360228 - Param Chloride Sample: 360229 - Param	AH-1 1-1.5' Flag AH-1 2-2.5' Flag AH-1 3-3.5' Flag		Result 873 Result 670 Result		mg/Kg Units mg/Kg Units mg/Kg Units	RI
Chloride Sample: 360227 - Param Chloride Sample: 360228 - Param Chloride Sample: 360229 - Param Chloride	AH-1 1-1.5' Flag AH-1 2-2.5' Flag AH-1 3-3.5' Flag		Result 873 Result 670 Result		mg/Kg Units mg/Kg Units mg/Kg Units	RI RI RI RI RI

Report Date: April 16, 2014		Work Order: 14041126	Page Number: 3 of 6	
Sample: 360231 -	- AH-2 1-1.5'			
Param	Flag	Result	Units	RL
Chloride		1080	mg/Kg	4
Sample: 360232 -	- AH-2 2-2.5'			
Param	Flag	Result	Units	RL
Chloride		122	mg/Kg	4
Sample: 360233 -	• AH-2 3-3.5'			
Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4
Sample: 360234 -	AH-3 0-1'			
Param	Flag	Result	Units	RL
Chloride		5850	mg/Kg	4
Sample: 360235 - Param	• AH-3 1-1.5' Flag	Result	Units	RL
Chloride		1320	mg/Kg	4
Sample: 360236 - Param Chloride	AH-3 2-2.5' Flag	Result 141	Units mg/Kg	RL 4
Sample: 360237 -	AH-3 3-3.5'			
Param	Flag	Result	Units	RL
Chloride		131	mg/Kg	RL 4
Sample: 360238 -	AH-4 0-1'			
Deman	Flag	Result	Units	RL
Param				

Report Date: April 16, 2014		Work Order: 14041126	Page Number: 4 of 6	
Sample: 360239 -	AH-4 1-1.5'			
Param	Flag	Result	Units	RL
Chloride	······	221	mg/Kg	4
Sample: 360240 -	AH-4 2-2.5'			
Param	Flag	Result	Units	RL
Chloride		40.0	mg/Kg	4
Sample: 360241 -	AH-4 3-3.5'			
Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4
Sample: 360242 -				
Param	Flag	Result	Units	RL
Chloride		4600	mg/Kg	4
Sample: 360243 -				
Param	Flag	Result	Units	RL
Chloride		493	mg/Kg	4
Sample: 360244 -	AH-5 2-2.5'			
Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4
Sample: 360245 -	AH-5 3-3.5'			
Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	RL 4
Chioride				
Sample: 360246 -	AH-6 0-1'			
	AH-6 0-1' Flag	Result	Units	RL

Report Date: April 16, 2014		Work Order: 14041126	Page Number: 5	
Sample: 360247 -	AH-6 1-1.5'			
Param	Flag	Result	Units	RL
Chloride	<u> </u>	<20.0	mg/Kg	4
Sample: 360248 -				
Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4
Sample: 360249 -	AH-6 3-3.5'			
Param	Flag	Result	Units	RL
Chloride		306	mg/Kg	4
Sample: 360250 - Param Chloride	AH-7 0-1' Flag	Result 102	Units mg/Kg	RL 4
Sample: 360251 - Param		Result	Units	DI
Chloride	Flag	204	mg/Kg	RL 4
Sample: 360252 -	AH-7 2-2.5'	202	mg/rtg	
Param	Flag	Result	Units	RL
Chloride	•	<20.0	mg/Kg	4
Sample: 360253 -	AH-7 3-3.5'			
		Result	Units	RI.
Param	AH-7 3-3.5' Flag	Result 153	Units mg/Kg	RL 4
Sample: 360253 - Param Chloride Sample: 360254 -	Flag			RL 4
Param Chloride	Flag			RL 4 RL 4

Report Date: April 16, 2014		Work Order: 14041126	Page Number: 6 of 6	
Sample: 360255	- AH-7 5-5.5'			
Param	Flag	Result	Units	RL
Chloride		4340	mg/Kg	4
Sample: 360256	- AH-7 6-6.5'			
Param	Flag	Result	Units	RL
Chloride		1490	mg/Kg	4
Sample: 360257		Devek	11 -14-	DI
Param Chloride	Flag	Result 398	Units mg/Kg	RL 4
Sample: 360258	- AH-7 8-8.5'			
Param	Flag	Result	Units	RL
Chloride		249	mg/Kg	4
Sample: 360259	- AH-7 9-9.5'			
			** **	
Param	Flag	Result	Units	RL