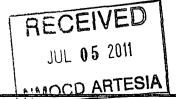
SITE INFORMATION Report Type: Work Plan General Site Information: Site: Brigham H #3 (well site) Company: COG Operating LLC Section, Township and Range Unit L Sec. 21 T-17S R-30E Lease Number: API-30-015-30677 County: **Eddy County** GPS: 103.98273° W 32.82012° N Surface Owner: Federal Mineral Owner: From the intersection of 82 and CR-219 in Loco Hills, travel north on 219 0.1 mi, turn left 0.2 mi, Directions: turn left to location Release Data: Date Released: 2/1/2011 Type Release: Produced fluid Source of Contamination: Flowline Fluid Released: 20 bbls Fluids Recovered: 18 bbls Official Communication: Pat Ellis Name: Kim Dorey COG Operating, LLC Company: Tetra Tech Address: 550 W. Texas Ave. Ste. 1300 1910 N. Big Spring P.O. Box City: Midland Texas, 79701 Midland, Texas Phone number: (432) 686-3023 (432) 631-0348 Fax: (432) 684-7137

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

Email:

pellis@conchoresources.com

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



kim.dorey@tetratech.com



June 9, 2011

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

Work Plan for the COG Operating LLC., Brigham H #3 Well Site, Re: Unit L, Section 21, 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 Brigham H #3 well site, Unit L, Section 21, Township 17 South, Range 30 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.82012°, W 103.98273°. 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 1, 2011, and released approximately twenty (20) barrels of produced fluid from a hole in a flow line. Approximately eighteen (18) barrels of fluid was recovered. To alleviate the problem, COG personnel replaced the flow line section. The spill initiated east of the Brigham H #3 well location, in the adjacent pasture area. The spill migrated approximately 120' east, with a width ranging from 10.0' to 20.0'. A secondary finger ran south approximately 30.0' with a width of 2.0'. The initial C-141 form is enclosed in Appendix A.

Groundwater

No water wells were listed within Section 21. Based on the site location and NMOCD groundwater map, the average depth to groundwater in this area is approximately 275' to 300' below surface. The well 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-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 3, 2011, Tetra Tech personnel inspected and sampled the spill area. 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, the area of AH-2 was vertically defined and showed TPH and BTEX concentrations below the RRAL at 2-2.5' below surface. The remaining auger holes (AH-1, AH-3 ands AH-4) were not vertically defined, with TPH and BTEX concentrations above the RRAL. In addition, elevated chloride concentrations were also detected in the areas of AH-1, AH-3 and AH-4 and not vertically defined.

In order to delineate the TPH, BTEX, and chloride impact, soil borings were installed utilizing an air rotary drilling rig. On May 29, 2011, Tetra Tech personnel supervised the installation of soil borings (SB-1 and SB-2). Due to safety concerns with overhead power lines, SB-1 was installed between AH-4 and AH-3. The soil borings were installed to a total depth of 40.0' below surface. Referring to Table 1, the soil borings declined below the RRAL for TPH and BTEX at 7.0' below surface. The elevated chloride concentrations showed a significant decline with depth. The soil boring locations are shown on Figure 3.



Work Plan

COG proposes the removal of impacted material to the appropriate depth as highlighted in Table 1 and shown on Figure 4. The proposed excavation depths range from 2.0' to 10.0' below surface. The excavated soil will be transported to proper disposal. Once the areas are excavated to the appropriate depths, the excavations will be backfilled with clean soil.

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 the depths are not reached, 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

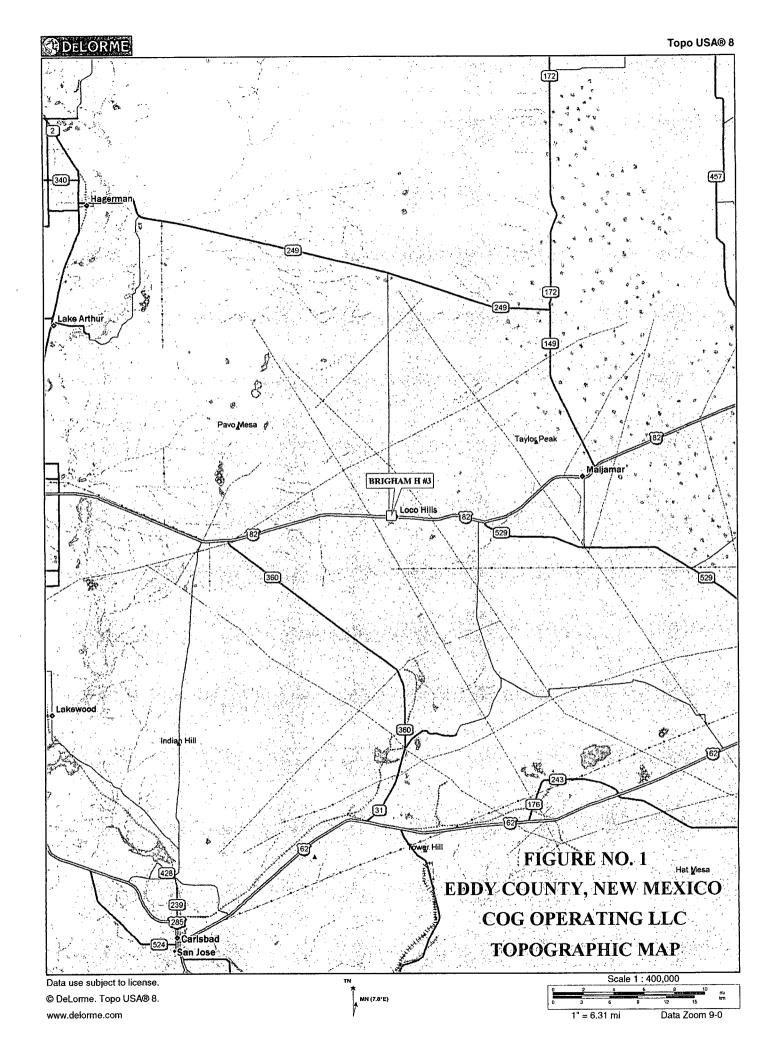
Ike Tavagez

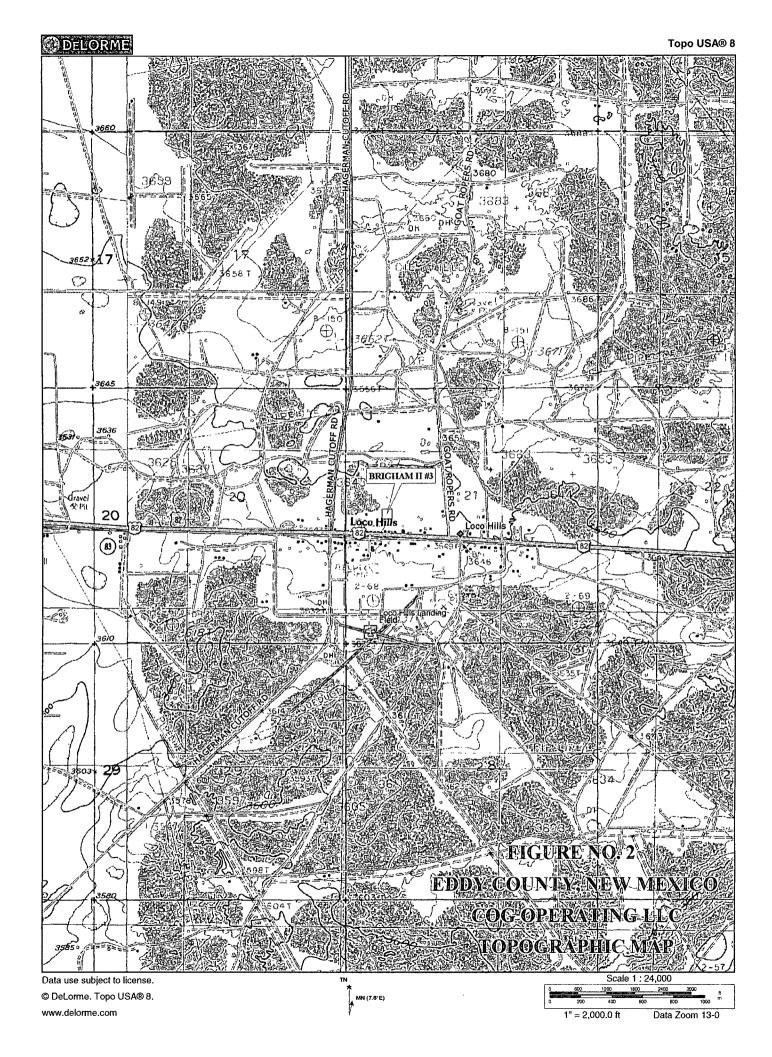
Project Manager

cc: Pat Ellis - COG

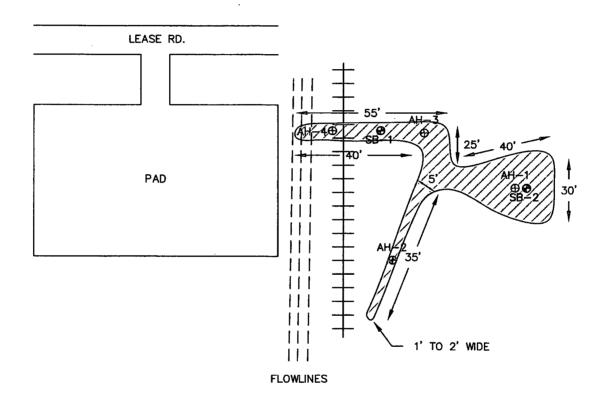
cc: Terry Gregston - BLM

Figures









NOT TO SCALE

SPILL AREA

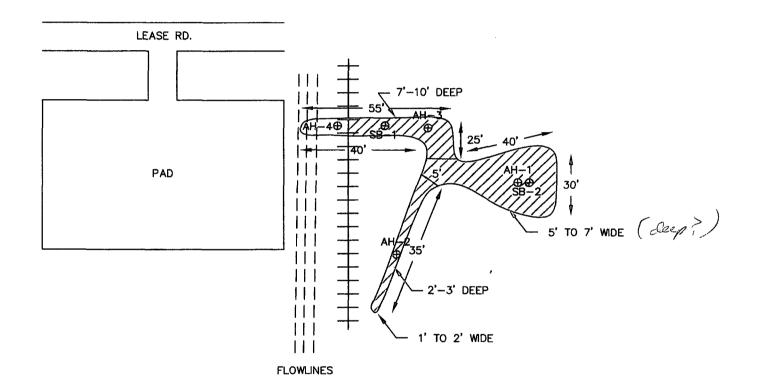
⊕ AUGER HOLE LOCATIONS

9 SOIL BORE LOCATIONS

++ OVERHEAD POWERLINES

	FIGURE NO. 3
	EDDY COUNTY, NEW MEXICO
	COG OPERATING LLC
DATE: 6/9/2011 DWN. BY:	BRIGHAM H #3
FILE: H:\COG\840082 BRIGHAM H \$3	TETRA TECH, INC. MIDLAND, TEXAS





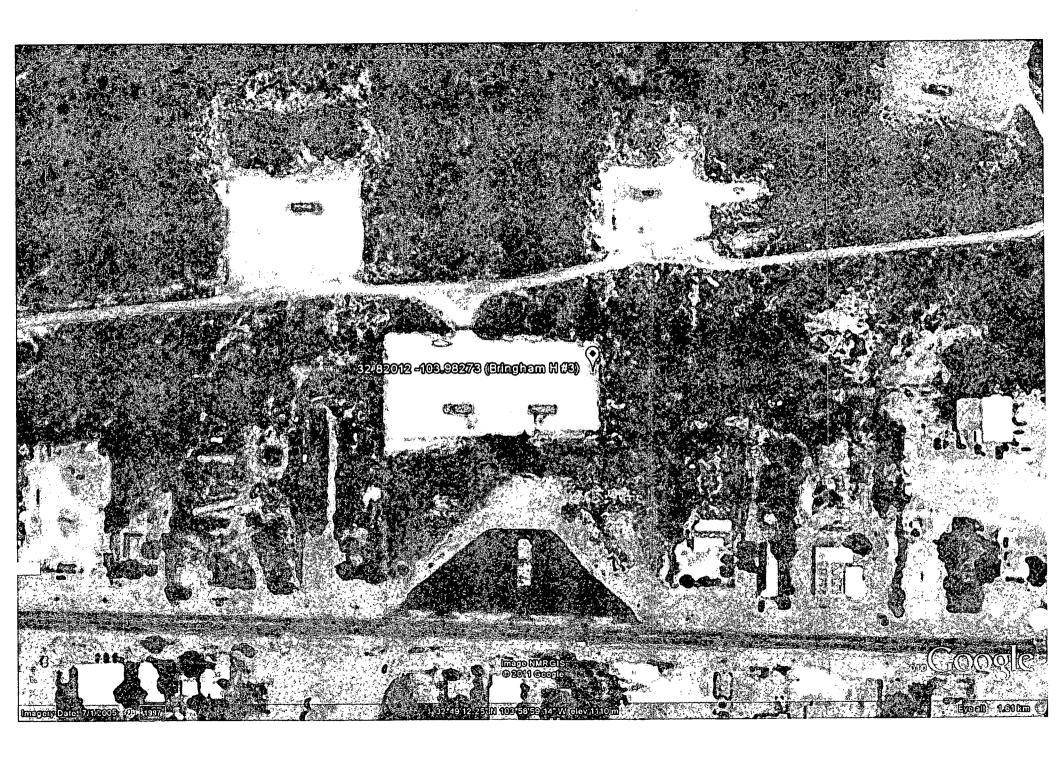
PROPOSED	EXCAVATION	DEPTHS
----------	------------	--------

AUGER HOLE LOCATIONS

⊕ SOIL BORE LOCATIONS
+→ OVERHEAD POWERLINES

NOT TO SCALE

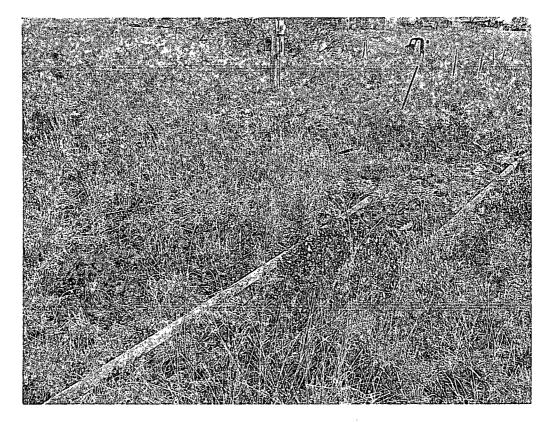
_	FIGURE NO. 4
	EDDY COUNTY, NEW MEXICO
	COG OPERATING LLC
DATE: 6/9/2011 DWN. BY:	BRIGHAM H #3
IM FILE: H:\COG\6400826	TETRA TECH, INC. MIDLAND, TEXAS



Photos

COG Operating LLC Brigham H #3 Eddy County, New Mexico





View south east near AH-4



Limited drilling rig access near AH-4 due to overhead lines

Tables

Table 1
COG Operating LLC.
BRIGHAM H #3

Eddy County, New Mexico

Sample		Date Sample Depth (ft)		Soil	Status		TPH (mg/k	(g)	Benzene	Toluene	Ethlybenzene	Xylene	Total	Chloride
מו	Sample Date		BEB	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX	(mg/kg)
AH-1	3/3/2011	0-1	Terrer of the second se	X		1,870	24,200	26,070	5.23	24.9	30/5	55.2	.115.8	756
	u	1-1.5'		Х		3,890	22,900	26,790	5.85	58.5	78.2	135	277.6	1,080
	n	2-2.5'	2.	Х		4,110	18,800	22,910	10.8	84.5	76.6	124	295.9	5,110
	П	3-3.5'	, 5	(*) X		10,400	21,900	32,300	39.9	348	220	351	958.9	12,800
SB-2	5/9/2011	0-1'	0.5	(X		1,050	8,300	9,350		1 (1.5 <u>2</u> °, 5.7°	<u> </u>			1,380
	n	3'	and the second	Х		5,770	9,870	15,640	19.0	166	134	204	523.0	12,800
	11	5'	Ç.	Х		5,210	6,590	11,800	30.3	194	121	179	524.3	5,640
	11	7'		Х		<2.00	<50.0	<50.0	<0.0200	<0.0200	0.127	0.343	0.5	236
	13	10'		Х		9.9	61.1	71.0	-	_	-	-	-	334
	e	15'		Х		-	-	-	-	-	-	-	-	<200
	n	20'		Х		-	-	_	-	-	-	_	-	<200
	11	25'		Х		-	-	-	-	-	-	-	-	288
	п	30'		Х		-	-	-	-	-	-	-	-	219
	n	40'		Х		-	-		<u>-</u>		-	-	-	<200
AH-2	3/3/2011	/ O-1' -	N.	, X	1.000	1,590	20,500	22,090	4.07	12.4	19.9	40.2	76.6	578
	п	1-1.5	X	Х		4,600	29,700	34,300	4.49	33.8	58.3	97.3	193.9	<200
	n	2-2.5'		Х		10.2	185	195.2	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<200
	ž1	3-3.5'		Х		<2.0	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	<200

Table 1 COG Operating LLC. **BRIGHAM H #3**

Eddy County, New Mexico

Sample	Sample Date	Sample Depth (ft)		Soil	Status		TPH (mg/k	(g)	Benzene	Toluene	Ethlybenzene	Xylene	Total	Chloride
ID			BEB	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX	(mg/kg)
AH-3	3/3/2011	'0-1'		X		5,220	16,500	21,720	22.1	132	96.3	159	409.4	1,590
	£1	1-1.5		* X		3,840	16,200	20,040	4.73	61.8	60.5	105 🔭	232.0	4,760
	n	. 2-2.5 ¹		X		3,430	*12,200	15,630	6.06	61.7	58.9	102	228.7	5,040
	0	3-3,5		, X		11,500	59,100	70,600	66.2	511	257	424	1,258.2	.8,820
SB-1	5/29/2011	(× 0-1' ↑	0.5	X	W 1947 300	3,060	7,870	10,930	6.66	40.1	43.4	85.2	175.4	<200
	а	323		X	x 11" (x 10)	2,550	.8,060	10,610						355
	н	કેક્ટું 5¦.√ું*		. X.		2,760	2,670	5,430						16,800
	1)	7.7'		. X .	· 第4名下海門	156	164	320	<0.200	<0.200	1.64	4.72	6.4	15,600
	n	10'		Х		-	-	-	-	-	-	-	-	3,170
	н	15'		Х		~	-	-		-	-	-	-	953
	Ħ	20'		Х		-	-	1	-	•	-	-	-	261
	n	25'		Х		-	-	•	-	-	-	_		222
	U	30'		Х		-	-	ı	-	-	-	<u>-</u>	-	227
	n	40'		Х			-		-	-	-		-	238
AH-4	3/3/2011	(->10-1';)\$. X		§ 5,350 [®]	-18,700	24,050	32.2	163	106:	157	458.2	2,610
	n		会有的的主义	* * X .		5,880	. 15,600√	21,480	17.8	*<'130 · .	83.9	ំ 133 ា	364.7	5,250
	11	· 2-2.5'		X		5,870	14;800	.720,670 ·*	24.0	155	107	.172	458.0	7,530
	п	≨ ₂ 3-3.5'*		. X		4,600	√1.1,000 ·	15,600	22.1	140	82.6	130	374.7	10,300

Not Analyzed

Below Excavation Bottom

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

02/11/2011

Attach Additional Sheets If Necessary

Phone:

432-212-2399

Date:

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** Final Report Initial 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 Brigham H#3 Well Facility Type Federal Lease No. (API#) 30-015-30677 Surface Owner Mineral Owner LOCATION OF RELEASE Unit Letter Section Township Feet from the North/South Line East/West Line Range Feet from the County 21 17S 30E Eddy L Latitude 32 49.208 Longitude 103 58.965 NATURE OF RELEASE Volume of Release 20bbls Type of Release Produced fluid Volume Recovered 18bbls Source of Release Flowline Date and Hour of Occurrence Date and Hour of Discovery 02/01/2011 02/01/2011 4:00 p.m. Was Immediate Notice Given? If YES, To Whom? ☐ Yes ☒ No ☒ Not Required By Whom? Date and Hour RECEIVED Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ⊠ No JUL 05 2011 If a Watercourse was Impacted, Describe Fully.* Describe Cause of Problem and Remedial Action Taken.* NMOCD ARTESIA Hot oiler was pumping down a flowline that had a small hole in it. The hot oiler truck immediately stopped and the flowline was patched. Since then the patched joint of flowline has been replaced with a new joint. Describe Area Affected and Cleanup Action Taken.* Initially 20bbls of produced fluid was released from the flowline and we were able to recover 18bbls with a vacuum truck. The fluid traveled 10' x 50' to a low area in pasture measuring 20' x 20'. All standing fluid was recovered with the vacuum truck. 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/BLM 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 ١ Signature: Approved by District Supervisor: Printed Name: Josh Russo Title: **HSE** Coordinator Approval Date: **Expiration Date:** E-mail Address: jrusso@conchoresources.com Conditions of Approval: Attached [

Appendix B

Water Well Data Average Depth to Groundwater (ft) COG - Brigham H #3 Eddy County, New Mexico

	16 Sc	outh	2	9 East			16	South	3	0 East			1	6 South	3	1 East	
	5	4	3	2	1	6	5	4	3	2	1	6	5	4	3	2	1
	8	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11	12
8	17	16	15	14	13	18	17	16	15	14	13	18	3 17	16	15	14	13
10	1"	10	113	14	13	'°	117	10	13	'"	1'3	"	' ''		'3	'"	11
19	20	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23	24
110							1		l								
30	29	28	27	26	25	30	29	28	27	26	25	30	29	28	27	26	25
31	32	33	34	35	36	31	32	33	34	35	36	31	- 1	33	34	35	36
	17 Sc	outh	2	9 East		. –	17	South		0 East	<u>'</u>			7 South	3	1 East	
6	5	4	3	2	1	6	5	14	13	2	11	6	5	4	3	2	1
			1	1				- 1					١		ľ	ſ	
7	8	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11	12
8	17	16	15	14	13	18	17	16	15	14	13	18	3 17	16	15	14	13
19	20	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23	24
		1	80					Site		-		1 1					
30	29 210	28	27	26	25	30	29	28	27	26	25	30) 29	28	27	26	25
31	32	33	34	35	36	31	32	33	34	35	36	31	32	33	34	35	36
		<u> </u>		153		lL			ł			ł L			271		
	18 Sc	outh	2	9 East			18	South	3	0 East	•		1	8 South	3	1 East	
3	5	4	3	2 .	1	6	5	4	3	2	1	6	5	4	3	2	1
7	8	9	10	11	12	7	8	9	10	11	12	7	8	9	10	11	12
			1							- 1				ĺ			40
18	17	16	15	14	13	18	17	16	15	14	13	18	3 17	16	15	14	13
		<u> </u>				!			<u> </u>			l L				317	\perp
19	20	21	22	23	24	19	20	21	22	23	24	19	20	21	22	23	24
30	29	28	27	26	25	30	29	28	27	26	25	30) 29	28	27	26	25
31	32	33	34	35	36	31	32	33	34	35	36	31	32	33	34	35	36
				1		1 1							1	i		261	

New Mexico State Engineers Well Reports

USGS Well Reports

Geology and Groundwater Conditions in Southern Eddy, County, NM

NMOCD - Groundwater Data

Site Location - Brigham H #3

Appendix C

Work Order: 11030724 Page Number: 1 of 4 Report Date: 11, 3

Summary Report

Tetra Tech

1910 N. Big Spring Street Midland, TX 79705

Report Date: 11, 3

Work Order: 11030724

Project Location: Eddy County, NM Project Name: Project Number:

Brigham H #3 114-6400826

Date Time Date Sample Description Matrix Taken Taken Received 2011-03-03 00:00 2011-03-04 259750 AH-1 0-1' soil AH-1 1-1.5 2011-03-03 00:00 259751 soil 2011-03-04 AH-1 2-2.5' 2011-03-03 00:00 2011-03-04 259752 soil AH-1 3-3.53 2011 - 03 - 03259753 soil 00:00 2011-03-04 259754 AH-2 0-1' soil 2011-03-03 00:00 2011-03-04 259755 AH-2 1-1.5' soil 2011-03-03 00:00 2011-03-04 AH-2 2-2.5' 2011-03-03 00:00 259756 soil 2011-03-04 AH-2 3-3.5' 2011-03-03 00:00 2011-03-04 259757 soil AH-3 0-1' 2011-03-03 2011-03-04 259758 soil 00:00 AH-3 1-1.5' 2011-03-03 00:00 2011-03-04 259759 soil 259760 AH-3 2-2.57 soil 2011-03-03 00:00 2011-03-04 259761 AH-3 3-3.5' 2011-03-03 00:00 2011-03-04 soil AH-4 0-1' 2011-03-03 00:00 2011-03-04 259762 soil 2011-03-03 259763 AH-4 1-1.57 soil 00:00 2011-03-04 AH-4 2-2.5' 2011-03-03 00:00 259764 soil 2011-03-04 259765 AH-4 3-3.57 soil 2011-03-03 00:00 2011-03-04

			BTEX		TPH DRO - NEW	TPH GRO
	Benzene	Toluene	Ethylbenzene	Xylene	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
259750 - AH-1 0-1'	5.23	24.9	30.5	55.2	24200	1870
259751 - AH-1 1-1.5'	5.85	58.5	78.2	135	22900	3890
259752 - AH-1 2-2.5'	10.8	84.5	76.6	124	18800	4110
259753 - AH-1 3-3.5'	39.9	348	220	351	21900	10400
259754 - AH-2 0-1'	4.07	12.4	19.9	40.2	20500	1590
259755 - AH-2 1-1.5'	4.49	33.8	58.3	97.3	29700	4600
259756 - AH-2 2-2.5'	< 0.0200	< 0.0200	< 0.0200	< 0.0200	185	10.2
259757 - AH-2 3-3.5'	< 0.0200	< 0.0200	< 0.0200	< 0.0200	< 50.0	< 2.00
259758 - AH-3 0-1'	22.1	132	96.3	159	16500	5220

 $continued \dots$

Result

< 200

Result

578

Units

Units

mg/Kg

mg/Kg

RL

4.00

RL

4.00

Param

Param

Chloride

Chloride

Sample: 259755 - AH-2 1-1.5'

Flag

Flag

			_	
Report Date: 11, 3		Work Order: 11030724	Page	Number: 3 of 4
Sample: 259756 - A	H-2 2-2.5'			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
Sample: 259757 - A	Н-2 3-3.5			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4.00
Sample: 259758 - A	AH-3 0-1'			
Param	Flag	Result	Units	RL
Chloride		1590	mg/Kg	4.00
Sample: 259759 - A	AH-3 1-1.5'			
Param	Flag	Result	Units	RL
Chloride		4760	mg/Kg	4.00
Sample: 259760 - A	.H-3 2-2.5'			
Param	Flag	Result	Units	RL
Chloride		5040	mg/Kg	4.00
Sample: 259761 - A	.H-3 3-3.5'			
Param	Flag	Result	Units	RL
Chloride		8820	mg/Kg	4.00
Sample: 259762 - A	.Н-4 0-1'			
Param	Flag	Result	Units	RL
Chloride		2610	mg/Kg	4.00
Sample: 259763 - A	.H-4 1-1.5'			
Param	Flag	Result	Units	RL
Chloride		5250	mg/Kg	4.00

Report Date: 11, 3	3	Work Order: 11030724	Page	Number: 4 of 4
Sample: 259764	- AH-4 2-2.5'			
Param	Flag	Result	Units	RL
Chloride		7530	mg/Kg	4.00
Sample: 259765	- AH-4 3-3.5'			
Param	Flag	Result	Units	RL
Chloride		10300	mg/Kg	4.00

Report Date: May 25, 2011 Work Order: 11051101 Page Number: 1 of 4

Summary Report

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

Report Date: May 25, 2011

Work Order: 11051101

Project Location: Eddy Co., NM Project Name: Brigham H #3 Project Number: 114-6400826

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
266048	SB-1 0-1' (6 in. BEB)	soil	2011-05-09	00:00	2011-05-10
266049	SB-1 3' (6 in. BEB)	soil	2011-05-09	00:00	2011-05-10
266050	SB-1 5' (6 in. BEB)	soil	2011-05-09	00:00	2011-05-10
266051	SB-1 7' (6 in. BEB)	soil	2011-05-09	00:00	2011-05-10
266052	SB-1 10' (6 in. BEB)	soil	2011-05-09	00:00	2011-05-10
266053	SB-1 15' (6 in. BEB)	soil	2011-05-09	00:00	2011-05-10
266054	SB-1 20' (6 in. BEB)	soil	2011-05-09	00:00	2011-05-10
266055	SB-1 25' (6 in. BEB)	soil	2011-05-09	00:00	2011-05-10
266056	SB-1 30' (6 in. BEB)	soil	2011-05-09	00:00	2011-05-10
266057	SB-1 40' (6 in. BEB)	soil	2011-05-09	00:00	2011-05-10
266058	SB-2 0-1' (6 in. BEB)	soil	2011-05-09	00:00	2011-05-10
266059	SB-2 3' (6 in. BEB)	soil	2011-05-09	00:00	2011-05-10
266060	SB-2 5' (6 in. BEB)	soil	2011-05-09	00:00	2011-05-10
266061	SB-2 7' (6 in. BEB)	soil	2011-05-09	00:00	2011-05-10
266062	SB-2 10' (6 in. BEB)	soil	2011-05-09	00:00	2011-05-10
266063	SB-2 15' (6 in. BEB)	soil	2011-05-09	00:00	2011-05-10
266064	SB-2 20' (6 in. BEB)	soil	2011-05-09	00:00	2011-05-10
266065	SB-2 25' (6 in. BEB)	soil	2011-05-09	00:00	2011-05-10
266066	SB-2 30' (6 in. BEB)	soil	2011-05-09	00:00	2011-05-10
266067	SB-2 40' (6 in. BEB)	soil	2011-05-09	00:00	2011-05-10

	BTEX			TPH DRO - NEW	TPH GRO	
1	Benzene	Toluene	Ethylbenzene	Xylene	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
266048 - SB-1 0-1' (6 in. BEB)	6.66	40.1	43.4	85.2	7870	3060
266049 - SB-1 3' (6 in. BEB)					8060	2550
266050 - SB-1 5' (6 in. BEB)	11.6	75.2	56.9	90.8	2670	2760
266051 - SB-1 7' (6 in. BEB)	< 0.200	< 0.200	1.64	4.72	164	156
266058 - SB-2 0-1' (6 in. BEB)					8300	1050

continued ...

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	Benzene	Toluene	Ethylbenzene	Xylene	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)	(mg/Kg)
266059 - SB-2 3' (6 in. BEB)	19.0	166	134	204	9870	5770
266060 - SB-2 5' (6 in. BEB)	30.3	194	12 1	179	6590	5210
266061 - SB-2 7' (6 in. BEB)	< 0.0200	< 0.0200	0.127	0.343	< 50.0	< 2.00
266062 - SB-2 10' (6 in. BEB)					61.1	9.94

Sample: 266048 - SB-1 0-1' (6 in. BEB)

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

Sample: 266049 - SB-1 3' (6 in. BEB)

Param	Flag	Result	Units	RL
Chloride		355	mg/Kg	4

Sample: 266050 - SB-15' (6 in. BEB)

Param	Flag	Result	Units	RL
Chloride		16800	mg/Kg	4

Sample: 266051 - SB-1 7' (6 in. BEB)

Param	Flag	Result	Units	RL
Chloride		15600	mg/Kg	4

Sample: 266052 - SB-1 10' (6 in. BEB)

Param	Flag	Result	Units	RL
Chloride		3170	mg/Kg	4

Sample: 266053 - SB-1 15' (6 in. BEB)

Param	Flag	Result	Units	RL
Chloride		953	mg/Kg	4

Sample: 266054 - SB-1 20' (6 in. BEB)

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Param	Flag	Result	Units	RL
Chloride		261	mg/Kg	4
Sample: 266055 -	SB-1 25' (6 in. BEB)			
Param	Flag	Result	Units	RL
Chloride	r iag	222	mg/Kg	4
Sample: 266056 -	SB-1 30' (6 in. BEB)			
Param	Flag	Result	Units	RL
Chloride		227	mg/Kg	4
Sample: 266057 -	SB-1 40' (6 in. BEB)			
Param	Flag	Result	Units	RL
Chloride		238	mg/Kg	4
Sample: 266058 -	· SB-2 0-1' (6 in. BEB)			
Param	Flag	Result	Units	RL
Chloride		1380	mg/Kg	4
Sample: 266059 -	SB-2 3' (6 in. BEB)			
Param	Flag	Result	Units	RL
Chloride		12800	ıng/Kg	4
Sample: 266060 -	SB-2 5' (6 in. BEB)			
Param	Flag	Result	Units	RL
Chloride	0	5640	mg/Kg	4
Sample: 266061 -	SB-2 7' (6 in. BEB)			
Param	Flag	Result	Units	RL
Chloride		236	mg/Kg	4

Report Date: May 25, 2011		Work Order: 11051101	Page I	Number: 4 of 4
Sample: 266062	- SB-2 10' (6 in. BEB)			
Param	Flag	Result	Units	RL
Chloride	A 444	334	mg/Kg	4
Sample: 266063	- SB-2 15' (6 in. BEB)			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4
Sample: 266064	- SB-2 20' (6 in. BEB)	•		
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4
Sample: 266065	- SB-2 25' (6 in. BEB)			
Param	Flag	Result	Units	RL
Chloride		288	mg/Kg	4
Sample: 266066	- SB-2 30' (6 in. BEB)			
Param	Flag	Result	Units	RL
Chloride		219	mg/Kg	4
Sample: 266067	- SB-2 40' (6 in. BEB)			
Param	Flag	Result	Units	RL
Chloride		<200	mg/Kg	4