المحيد بالمراجع المحافظ ومعاقل والم		Sl	TE INFORMATIO	ON							
			ort Type: Work								
General Site Inf	ormation										
Site:			ederal Water Flood (N								
Company:	······································	COG Operat									
Section, Towns	hip and Range		Sec 20  T175	6 R30E							
Lease Number:		(API#) 30-01									
County:	•	Eddy County	/								
GPS:			32.83021° N	103.99532° W							
Surface Owner:		Federal									
Mineral Owner:											
Directions:	· · · · · · · · · · · · · · · · · · ·	From the inters miles. Then tur	section of Hwy 82 and CF rn left and travel West for	R 217, turn right and travel North for approximatly 0.6 0.5 miles. The location will be on the right to the north orth							
Release Data:				2nd Spill							
Date Released:		3/23/2012 Produced Wa	2R1-1044	6/26/2012 & Rus - 1217							
Type Release: Source of Contai	mination	Skim Tank		Oil Gun Barrel							
Fluid Released:			bbls Produced Water	175 bbls Oil							
Fluids Recovered	<del>.</del>		bbls Produced Water	75 bbls Oil							
Vame:	Pat Ellis		<b> </b>	Ike Tavarez							
Company:	COG Operating, L		L	Tetra Tech							
Address:	One Concho Cent	er		1910 N. Big Spring							
	600 W. Illinois Ave	<b>)</b>									
City:	Midland Texas, 79	701		Midland, Texas							
Phone number:	(432) 686-3023			(432) 682-4559							
Fax:	(432) 684-7137										
Email:	pellis@conchores	ources com									
		والكارينية التشكر المعارك		ike.tavarez@tetratech.com							
Ranking Criteria											
Ranking Criteria Depth to Ground			Ranking Score								
Ranking®Criteria Depth to Groundw <50 ft			Ranking Score	Site Data							
Ranking®Criteria Depth to Groundw <50 ft 50-99 ft	vater:		Ranking Score 20 10	Site Data 10							
Ranking®Criteria Depth to Groundw <50 ft 50-99 ft			Ranking Score	Site Data							
Ranking Criteria Depth to Grounds <50 ft 50-99 ft >100 ft. WellHead Protect	vater:		Ranking Score 20 10 0 Ranking Score	Site Data 10							
Ranking Criteria Depth to Ground 50 ft 50-99 ft >100 ft. WellHead Protect Water Source <1,	vater: ion: 000 ft', Private <200		Ranking Score       20       10       0       Ranking Score       20	Site Data <u>10</u> 0 Site Data							
Ranking Criteria Depth to Ground 50 ft 50-99 ft >100 ft. WellHead Protect Water Source <1,	vater:		Ranking Score 20 10 0 Ranking Score	Site Data <u> 10</u> 0							
Ranking Criteria Depth to Grounds 50 ft 50-99 ft >100 ft. WellHead Protect Water Source <1, Water Source >1,	vater: ion: 000 ft:, Private <200 000 ft., Private >200		Ranking Score       20       10       0       Ranking Score       20       0	Site Data <u>10</u> 0 Site Data 0							
Ranking Criteria Depth to Ground <50 ft 50-99 ft >100 ft. WellHead Protect Water Source <1, Water Source >1, Surface Body of N	vater: ion: 000 ft:, Private <200 000 ft., Private >200		Ranking Score       20       10       0       Ranking Score       20	Site Data <u>10</u> 0 Site Data							
Ranking Criteria Depth to Groundw 50 ft 50-99 ft >100 ft. WellHead Protect Water Source <1, Water Source <1, Water Source >1, Surface Body of M <200 ft. 200 ft.	vater: ion: 000 ft., Private <200 000 ft., Private >200 Water:		Ranking Score         20         10         0         Ranking Score         20         0         Ranking Score         20         0         10         0         20         0         10         0         20         0         10	Site Data  10 0 Site Data 0 Site Data							
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Ranking Criteria Depth to Groundw 50 ft 50-99 ft >100 ft. WellHead Protect Water Source <1, Water Source <1, Water Source >1, Surface Body of W <200 ft. 200 ft. 200 ft.	vater: ion: 000 ft., Private <200 000 ft., Private >200 Water:	n. fl. ::::::::::::::::::::::::::::::::::	Ranking Score         20         10         0         Ranking Score         20         0         Ranking Score         20         0         Ranking Score         20         0         0         10         0         10         0         10         0         10         0         10         0         10         0         0         10         0         10         0         10         0         10         0         10         0         10         0         10         0         10         0         10         10         10         10         10         10         10         10         10         10         10	Site Data           10           0           Site Data           0           Site Data           0           0           0           0           0           0           0							
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Ranking:Criteria Depth to Groundw <50 ft 50-99 ft >100 ft. WellHead Protect Water Source <1, Water Source <1, Water Source >1, Surface Body of W <200 ft. 200 ft. 200 ft. >1,000 ft.	vater: ion: 000 ft:, Private <200 000 ft:, Private >200 Water: tal Ranking Score	n. fl. ::::::::::::::::::::::::::::::::::	Ranking Score         20         10         0         Ranking Score         20         0         Ranking Score         20         0         Ranking Score         20         0         0         10         0         10         0         10         0         10         0         10         0         10         0         0         10         0         10         0         10         0         10         0         10         0         10         0         10         0         10         0         10         10         10         10         10         10         10         10         10         10         10	Site Data           10           0           Site Data           0           Site Data           0           0           0           0           0           0           0							
Ranking Criteria Depth to Groundw <50 ft 50-99 ft >100 ft. WellHead Protect Water Source <1, Water Source <1, Water Source >1, Surface Body of W <200 ft. 200 ft. >1,000 ft.	vater: ion: 000 ft:, Private <200 000 ft:, Private >200 Water: tal Ranking Score	n. fl. ::::::::::::::::::::::::::::::::::	Ranking Score         20         10         0         Ranking Score         20         0         Ranking Score         20         0         Ranking Score         20         0         0         10         0         10         0         10         0         10         0         10         0         10         0         0         10         0         10         0         10         0         10         0         10         0         10         0         10         0         10         0         10         10         10         10         10         10         10         10         10         10         10	Site Data           10           0           Site Data           0           Site Data           0           0           0           0           0           0           0							
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Ranking Criteria Depth to Groundw 50 ft 50-99 ft >100 ft. WellHead Protect Water Source <1, Water Source <1, Water Source >1, Surface Body of W <200 ft. 200 ft. 200 ft.	vater: ion: 000 ft:, Private <200 000 ft:, Private >200 Water: tal Ranking Score	n. fl. ::::::::::::::::::::::::::::::::::	Ranking Score         20         10         0         Ranking Score         20         0         Ranking Score         20         0         Ranking Score         20         0         0         10         0         10         0         10         0         10         0         10         0         10         0         0         10         0         10         0         10         0         10         0         10         0         10         0         10         0         10         0         10         10         10         10         10         10         10         10         10         10         10	Site Data           10           0           Site Data           0           Site Data           0           0           0           0           0           0           0							

#### October 8, 2013

Mr. Mike Bratcher Environmental Engineer Specialist Oil Conservation Division, District 2 811 S. First Street Artesia, New Mexico 88210

TETRA TECH

## Re: Work Plan for the COG Operating LLC., Jenkins B Federal Water Flood, Unit N, Section 17, Township 17 South, Range 29 East, Eddy County, New Mexico.

#### Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC. (COG) to assess a spill from the Jenkins B Federal Water Flood, located in Unit N, Section 17, Township 17 South, Range 29 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.83021°, W 103.99532°. The site location is shown on Figures 1 and 2.

#### Background

1<sup>st</sup> Spill

According to the State of New Mexico C-141 Initial Report, the leak was discovered on March 23, 2012 and released approximately three (3) barrels of oil and seventeen (17) barrels of produced water from a Skim Tank. Three (3) barrels of oil and fifteen (15) barrels of produced water were recovered. All the fluids remained inside the facility firewalls measuring approximately 35' x 30'. Due to the rush of fluid from a new well and a plugged strainer the skim tank overflowed. The strainer has been cleaned out. The initial C-141 form is enclosed in Appendix A.

## 2<sup>nd</sup> Spill

According to the State of New Mexico C-141 Initial Report, the leak was discovered on June 27, 2012 and released approximately seventy five (75) barrels of oil from the skim tank. Seventy (70) barrels of oil were recovered. The motor valves failed to open and the gun barrel overflowed. Electricians were called out to ensure the problem was resolved. The initial C-141 form is enclosed in Appendix A.

Tetra Tech 1910 North Big Spring, Midlaud TX 79705 Tel: 432 682 4559 Fax: 432 682,3946 www.tetratech.com ETRA TECH

.] On June 26, 2012, the second spill occurred overlapping the first spill area. After discussing the drilling issue with the NMOCD, Mr. Bratcher recommended the installation of a hollow stem auger to define the vertical extents.

On June 12, 2013, Tetra Tech supervised the installation of one (1) soil bore using a hollow stem auger drilling rig to further delineate the impacted soils. Referring to Table 1, SB-1 exceeded the RRAL for Total TPH and Total BTEX at 0-1', but was vertically defined at a depth of 2.0' below surface. Elevated chloride concentrations were detected at depths down to 90' below surface. However, the chloride concentrations declined with depth showing a chloride of 2,000 mg/kg at 90' and declining to 1,060 mg/kg at 100' and 92.5 mg/kg at 105' below surface.

## Work Plan

COG proposes to remove the impacted material as highlighted (green) in Table 1 and shown on Figure 4. Due to the location and limited area, the impacted soil inside the firewalls will be excavated to a depth of 3.0' to 4.0' below surface. Once excavated to the appropriate depth, a clay material will be installed in order to cap the remaining impact and prevent further migration of chlorides. All of the impacted material will be transported offsite for proper disposal. The excavated areas will be backfilled with clean soil to surface grade.

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 practical to be removed due to safely 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

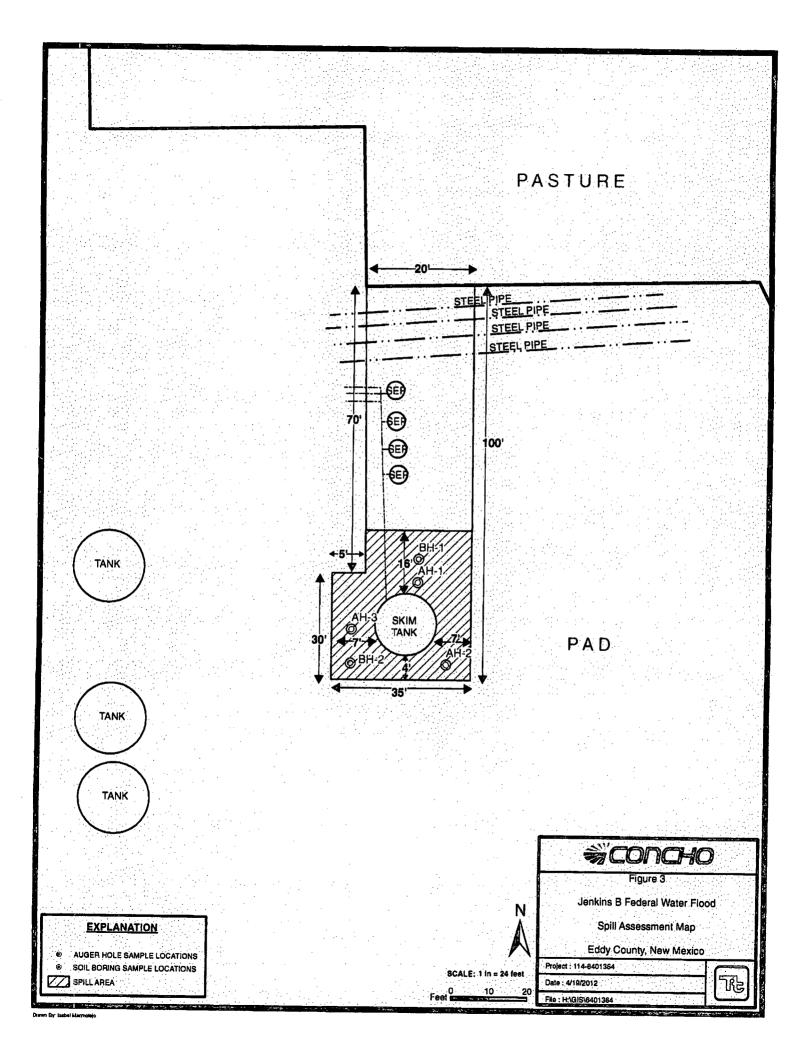
Ike Tavarez, PG Senior Project Manager

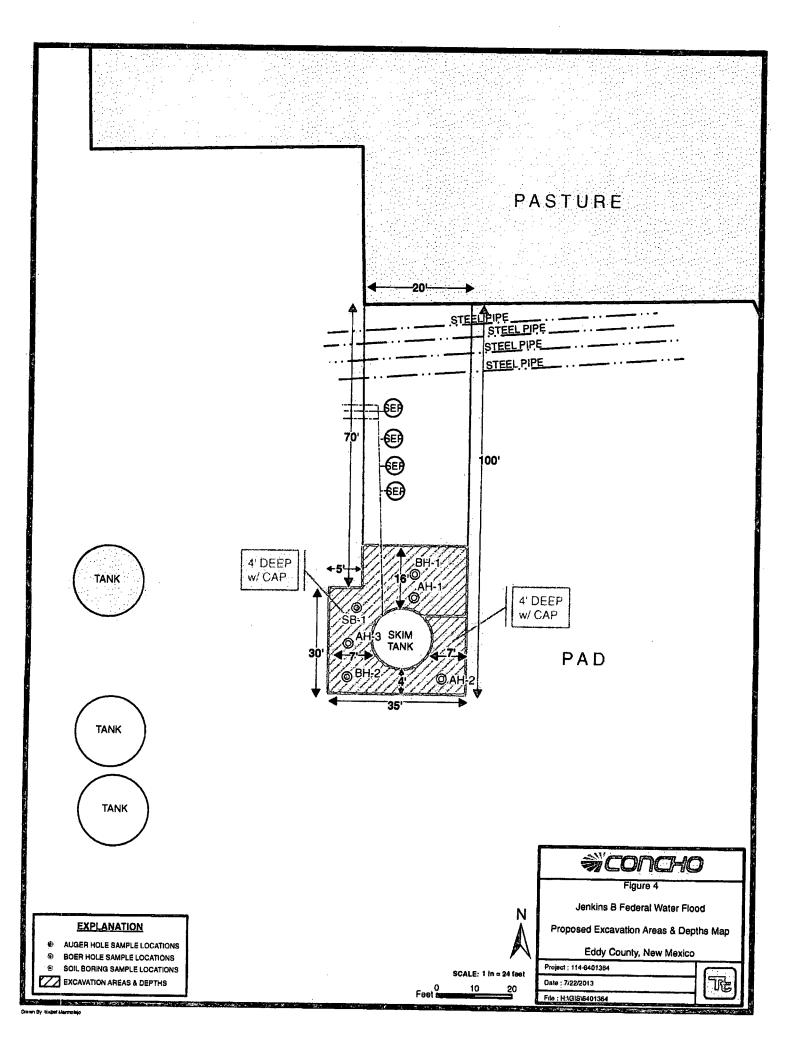
3

Robert McNeill - COG Jim Amos - BLM

CC:

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## Table 1 COG Operating LLC. Jenkins B Federal Water Flood Eddy County, New Mexico

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Sample	Sample Date	Sample	BEB	Soi	l Status	TF	H (mg/k	(g)	Benzene	Toluene	Ethivbenzene	Xylene	Total	Chloride
D		Depth (ft)	Depth (ft)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX (mg/kg)	(mg/kg)
AH-1	4/20/2012	194 <b>0-1</b> 4	™0.5 °	X		<b>% 166</b> %	378	544	<0.0200	0.0941	0.782	1.62	2.50	6,670
	π	1-1.5	0.5	X		(*) ja					an Alexandra and Alexandra			1,080
	1	2-2.5	0.5	<b>X</b>	all a sugar				as in the second second	and the second	- Martine La			159
	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	3-3.5	0.5	, Al <b>X</b> , (00)	a rational and an			-	-		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1			606
	ta an <b>n</b> an an an	4-4.5	0.5	X		1			-	-				987
		5-5.5	0.5	X				-	-	-				1,790
	ŧr	6-6.5	0.5	X		-	-	_	_	-	•	-	-	2,910
	u	7-7.5	0.5	X			-	-	-			•	-	2,980
	n	8-8.5	0.5	X		-	-		-			•	-	4,590
	<b>15</b>	9-9.5	0.5	X		-			÷					6,480
BH-1	6/6/2012	0-1	0.5	X	a succession and a succession of the succession	$\frac{1}{2} \frac{1}{\sqrt{2}} \frac$	Sec. Sugar	e	α	1	An an Anna Martin an Anna an Anna Anna Anna Anna Anna A	2017 P. 4	1. M	1,740
	<b>n</b> (1	2-3	0.5	X		•	-	-						3,190
Air	1.3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4-5	0.5	X		She in the		an a	ر المحمد التي و ما يا ي	and the first	Providence in the	and the state of	and the second	780
Rotary	ų	6-7	0.5	X		-	_				•		_	1,440
	17	9-10	0.5	X		-	-			-				2,570
	n	14-15	0.5	X		-				-			-	5,890
	P	19-20	0.5	X					-	-			-	8,650
	n	24-25	0.5	X		-	-	-	-	_		-	-	7,640
	•	29-30	0.5	X						-				7,190
	Ħ	39-40	0.5	X		-		•	-	-		-		14,700
	u i	49-50	0.5	X		-	-		_			-		9,100
	a l	59-60	0.5	X		-	_	-	-				•	12,000
-	n	69-70	0.5	X		•	-							3,800
	•	79-80	0.5	X					_					5,550

# Table 1 COG Operating LLC. Jenkins B Federal Water Flood Eddy County, New Mexico

Sample ID	Sample Date	Sample	BEB Depth	1 300 319705		TI	PH (mg/k	(g)	Benzene	Toluene	Ethlybenzene	Xylene	Total	Chloride
		Depth (ft)	(ft)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX (mg/kg)	(mg/kg)
AH-2	4/20/2012	0-1	0.5	X		4,150	5,970	10,120	4.74	61.1	73.4	95.2	234	6,540
	at match only and	<u>_</u> , 1-1.5, ,	<b>. 0.5</b>	<b>X</b> (	stration for	4.90	<50.0	4.90	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	5,560
	e,	2-2.5	0.5	X			-					-	0.02.00	166
														100
AH-3	4/20/2012	0-1	0.5	. Xina	and the former	33.6	50.3	83.9		1	The second s			
	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	1-1.5	0.5	X		-	- 50.5	- 03.9	<0.0200	0.106	0.105	0.362	0.573	6,130
	S. Salet Sale	2-2.5	0.5				,	्र <b>-</b> . २२ अस <u>्</u> र पुर		-	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	ан <u>1 - 1</u> - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		4,090
		3-3.5	0.5	X						-	-			900
	genaer 📭 eerre	4-4.5	0.5	X		•	19 <del>1</del> 7-1917	-	in the second	<u></u>	and the family and the	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		885
													-	1,810
BH-2	6/6/2012	0-1	0.5	X			21 별로			A 49. 4 3		- 1		1,730
	1	2-3	0.5	X	14		-		ge de tani var	والمراجعة الجوارية	in a will be the second		3	1,180
Air Rotary		4-5	0.5	<u> </u>				-	1 <u>-</u> 1 1	-			-	2,830
Rotary	e e	6-7	0.5	X		-								3,290
ŀ		9-10	0.5	X			<u> </u>						_	6,230
	a	14-15	0.5	X			-							6,350
-	<u>i</u>	19-20	0.5	X			-	-		-				6,890
· · · · · ·		24-25	0.5			-	-	-		-				4,830
		29-30	0.5	X			<u>+</u>	-	-					6,870
	n	39-40	0.5	X			- ::			-				7,860
_  -	<b>n</b>	49-50	0.5	X			-			-			_	5,840
-		59-60	0.5	X		-	-	-	-					8,290
		69-70	0.5	X					· · · · · · · · · · · ·					4,680
- F		7 <del>9</del> -80	0.5	X		-	-	<u>-</u>						4.420
			<u> </u>			Ī	. T							7,720

# Table 1 COG Operating LLC. Jenkins B Federal Water Flood Eddy County, New Mexico

Sample ID	Sample Date	Sample	BEB	SON STATUS		TPH (mg/kg)			Benzene Tolu	Toluene	Ethlybenzene	Xylene	Total	Chioride
		Depth (ft)	Depth (ft)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	BTEX (mg/kg)	(mg/kg)
SB-1	6/12/2013	0-1		<b>X</b> 3/-	i tradit i Stady i	4,900	8,530	13,430	<1.00	59.8	94.8	165	320	2,240
	Ħ	2-3	0	<b>X</b> (		<4.00	<50.0	<50.0	<0.0200	<0.0200	<0.0200	<0.0200	<0.0200	11,700
Hollow Stem		4-5	<b>`</b> 0	X *			2000 - 100 -	thay name				4		5,130
Auger	9	6-7	0	X		-								1,220
, and the second	11	9-10	0	X		-		-		-		•	-	7,920
		19-20	0	X		-			-				_	9,460
	8	39-40	0	X		-		-						12,000
		59-60	0	X		-			-					2,440
		79-80	0	X			-	<u> -</u>	-		-			6,150
	#	89-90	0	X				-			-	•	-	2,000
	n	99-100	0	X		-				-		-		1,060
	Ĥ	104-105	0	X		-	-							92.5

BEB Below Excavation Bottom

(--) Not Analyzed

Proposed Excavation Depths

Proposed Clay Cap

District J 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 <u>District IV</u> 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. Form C-141 Revised October 10, 2003

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

# Santa Fe, NM 87505 Release Notification and Corrective Action

			OPERATOR Initial Report Fir											
Name of Co		COG OP	Contact Pat Ellis											
Address				and, TX 7970	)]	Telephone No. 432-230-0077								
Facility Nar	ne	Jenkins	Water Flo	od		Facility Typ	e Tá	ank Batte	ry					
Surface Ow	ner Feder	ral		Mineral (	Owner		:		Lease N	lo. (API#) Clo	30 sest w	-015-20972		
·····				LOC	ATIO	N OF RE	LEASE A	Civita	N NK		461			
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	County						
N	17	175	30E								Eddy			
	Latitude 32 49.817 Longitude 103 59.765													
				NAT	<b>TURE</b>	OF REL	EASE							
Type of Rele							Release 75bb				70bbls			
Source of Re	lease Gun	barrel				Date and H 06/26/2011	lour of Occurre	ence	Date and 06/26/201	Hour of Dis 2-9:30 a.m.	covery			
Was Immedia	ite Notice (		Yes 🗌		equired	IF YES, To	Whom?	Mike I	Bratcher-Of	CD				
By Whom?	Michelle N	fullins				Date and H	lour 06/27/20	12 9:27 a	.m.	·····				
Was a Water		hed?	Yes 🛛	No		If YES, Volume Impacting the Watercourse.								
If a Watercou	rse was Im	pacted, Descri	be Fully.*			-1	· · · · · · · · · · · · · · · · · · ·			<u></u>				
Describe Cau	se of Proble	em and Remed	ial Action	Taken.*										
The gun barre that the probl	el at the Jen em with the	kins Water Flo motor valves	ood & Tanl has been r	Battery overfle solved.	owed du	e to motor val	ves that did no	t open. El	ectricians h	ave been ca	lled ou	t to ensure		
Describe Are	Affected a	and Cleanup A	ction Take	n,*			· · · · · · · · · · · · · · · · · · ·							
contained insi	ide the dike	d walls of the	facility. To	tra Tech will s	ample th	e spill site are	to recover 70b a to delineate a	ny possibl	le contamin	ick. The ent ation from t	ire rele ne rele	ase was ase and we		
will present a	remediatio	n work plan to	the NMO	CD/BLM for ap	proval p	rior to any sig	inificant remed	iation wor	k.					
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.														
		7 6	7_			OIL CONSERVATION DIVISION								
Signature:	//-	~ 1/	<u>ے</u>											
Printed Name	: /	Josh	Russo			Approved by District Supervisor:								
Title:		HSE Co	ordinator			Approval Date: Expiratio				Date:				
E-mail Addre	E-mail Address: jrusso@conchoresources.com C							Conditions of Approval:				Attached 🔲		
Date: 0														

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\* Attach Additional Sheets If Necessary

# Bratcher, Mike, EMNRD

From:	Tavarez, Ike <ike.tavarez@tetratech.com></ike.tavarez@tetratech.com>
Sent:	Thursday, October 17, 2013 1:37 PM
То:	Bratcher, Mike, EMNRD; Mike Burton (mburton@blm.gov)
Cc:	Robert McNeill; Robert Grubbs; Michelle Mullins (MMullins@concho.com);
	James_Amos@blm.gov
Subject:	COG Operating - Jenkins B Federal Water Flood - Work Plan Approval Request
Attachments:	COG-Work Plan - JENKINS_B_FED_WATER_FLOOD_(NC).pdf

Gentleman,

Please find the enclosed Work Plan for the above reference spill site located in Eddy County, New Mexico. The spill have been assessed and the remedial recommendations are included in the work plan. I will mail you a hard copy of the work plan for your files. Once approved, Tetra Tech will schedule the soil remediation and notify you prior to implementing the work plan. Please let me know if you need additional information or call me if you have any questions

### Ike Tavarez, PG | Senior Project Manager

Main: 432.682.4559 | Fax: 432.682.3946 | Cell: 432.425.3878

#### Ike.Tavarez@tetratech.com

Tetra Tech | Complex World, Clear Solutions™

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