

November 17, 2015

Oil Conservation Division District 2 – Artesia 811 S. First St. Artesia, NM 88210

Re: Crossman 25 State #1

30-15-38948

Sec. 24, T25S-R27E Eddy County, NM

Mr. Mike Bratcher,

COG Operating LLC would like to submit for your consideration the enclosed work plan for the above captioned well. The plan is in response to the C-141 Initial report dated October 20, 2014.

Background

The release was caused by torrential rains that resulted in mass flooding. Flood waters washed tanks, debris, and pad material downstream. 280 bbls of oil and 100 bbls of produced water were lost and unrecoverable. GL Environmental Inc. (GLE) was contracted by the State Land Office to complete a site survey combined with a sampling and analysis effort of the affected portions of the draw. GLE identified one sample with elevated chloride concentrations on the pad through composite sampling of 3 discrete samples.

After discussions with OCD, COG conducted additional sampling on October 14, 2015 to further identify the areas of contamination at sample point 5 with discrete samples. (See attached map)

Groundwater

Based on the Chevron Trend Maps, the release area would be classified at a site ranking of **zero** (o) due to the depth of groundwater being '.

Soil Assessment and Analytical Results

COG sampling results indicate chloride concentrations within RRALs for a site ranking of zero (0). The pad area was divided into 4 quadrants for sampling purposes. Chloride concentrations in three sampling areas (S2, S3 and S5) were elevated for NMOCD's target of 1,000 mg/kg for the remediation of chlorides (see attached site diagram).

Work Plan

COG proposes the following excavations:

T₁ – No Excavation

T2 - Excavate 1'

T3 - Excavate 2'

T₄ - No Excavation

T5 - Excavate 4'

Upon recommendation, COG will downsize the southwest edge of the pad area. Approximately 1100 cubic yards of material will be removed and a new pad boundary will be established. A 30" – 36" berm will be constructed along the west, south, and east edges of the pad.

If there are no objections or further stipulations, COG Operating LLC would like to begin the remediation process based on approval of this work plan. Please feel free to contact my with any questions or concerns at (432) 661-6601.

Sincerely,

Kolut Hunfr Robert Grubbs Jr.

Senior Environmental Coordinator

Enclosed

- (1) C-141 Initial (Copy)
- (2) Site Diagram and Summary Table
- (3) Laboratory Analysis

District I
1625 N French Dr., Hobbs, NM 88240
District II
811 S First St., 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

Revised August 8, 2011
Submit 1 Copy to appropriate District Office in

Form C-141

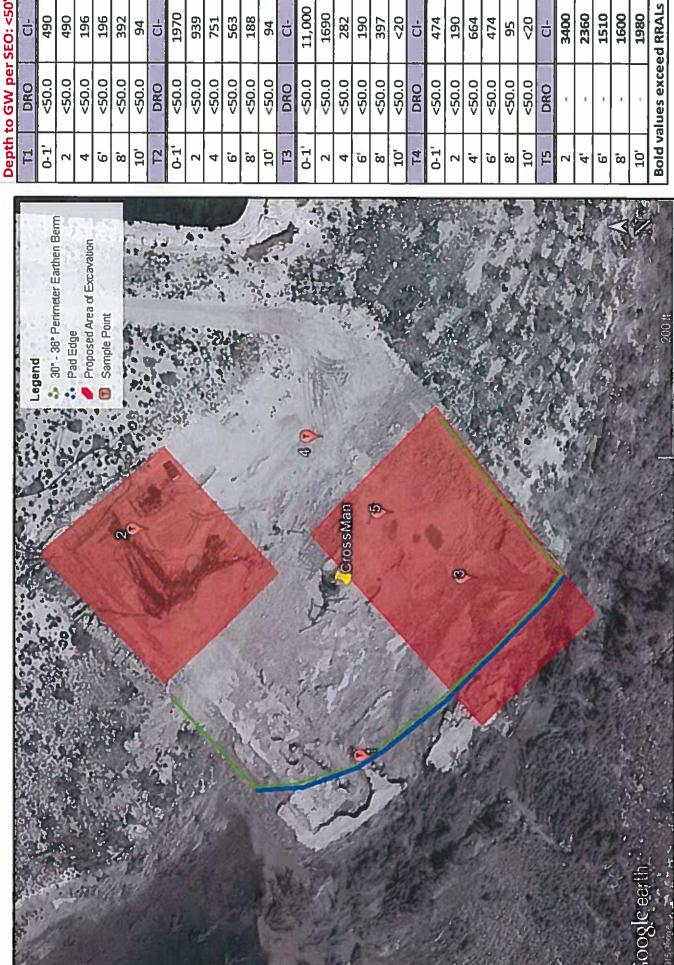
Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505 Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notificati	ion and C	orrective A	ction		
	OPERA	TOR	🔀 Initia	l Report	Final Report
Name of Company: COG Operating LLC		oben McNeill			
Address: 600 West Illinois Avenue, Midland TX 79701 Facility Name: Crossman 25 State #1H	Facility Ty	No. 432-230-007	17		
		pe. Dattery			
Surface Owner: Federal Mineral Owner	er: Federal		API No.	30-015-3894	48
	ON OF RE				
Unit Letter Section Township Range Feet from the No.	orth/South Line North	Feet from the 330'	East/West Line East		ounty Eddy
Latitude32.1073265861					-009
			31/29		
Type of Release:	Volume of	The state of the s	Volume R		
Oil and Produced Water		Dil; 100 bbls PW		: 0 bbls PW	
Source of Release:	Date and	Hour of Occurrence	e: Date and I	lour of Discov	ery:
Flood waters washed battery away. Was Immediate Notice Given?		11:00 am	9/19/2014	11:00 am	
Was Immediate Notice Given?	If YES, T ed Mike Bra	cher – OCD			
By Whom? Robert McNeill			00 am (phone call)		
Was a Watercourse Reached? ☑ Yes ☐ No		olume Impacting t	he Watercourse.		
	Unknown				
If a Watercourse was Impacted, Describe Fully.* Torrential rains caused flood waters to rise. Waters over ran the location	taliina tanka		and the state of the same and the state of t	Annt n Cales mad	
with the flood waters as well. Tanks and equipment was located appro	m, taking tanks ximately 2 mile	and equipment awi s further down the	ay with the water, waster, waster, waster, water	aosi oi ine pad nks were empt	v and the
fiberglass tanks were torn apart.	,				,
Describe Cause of Problem and Remedial Action Taken.*					
Second Control of the second s					ļ
Describe Area Affected and Cleanup Action Taken.*					
The impacted area shows no signs of hydrocarbon or brine impact. On	ce the area dries	out and is accessi	hle to heavy equina	nent we will on	indust a more
thorough search of the area for hydrocarbon impact. Equipment will be	e removed from	the draw and dispo	sed of at an NMO	D approved fa	acility.
I hereby certify that the information given above is true and complete	o the best of m	t lenguidades and se	edantard that some	nest to NIMOC	Derlysed
regulations all operators are required to report and/or file certain releas	e notifications	nd perform correct	nderstand mat purst tive actions for rele	ases which ma	v endanger
public health or the environment. The acceptance of a C-141 report by	the NMOCD i	narked as "Final Re	eport" does not relic	ve the operate	r of liability
should their operations have failed to adequately investigate and remet or the environment. In addition, NMOCD acceptance of a C-141 repo	liate contamina	ion that pose a thre	at to ground water,	surface water.	, human health
federal, state, or local laws and/or regulations.	it does not rene	ve me operator of r	esponsibility for co	impliance with	any otner
	_	OIL CONS	SERVATION	DIVISION	
Signature:					·
Organia C.	Approved by	/ Environmental S ₁	necialist:		
Printed Name: Amanda Trujillo	- Inproved to		регозивать.		
Title: Senior Environmental Coordinator	Approval Da	ite:	Expiration I	Date:	
E-mail Address: atruiillo@concho.com	Conditions of	f Approval:		Assembled F	,
Date: October 20, 2014 Phone: 575-748-6940		-		Attached [-
* Attach Additional Sheets If Necessary					

196 196

DRO <50.0

<50.0 <50.0 <50.0 <50.0 <50.0



11,000

<50.0 <50.0

DRO

939

<50.0 <50.0 <50.0 <50.0 <50.0

DRO <50.0

563 188

751

1690

282

<50.0 <50.0

397

<50.0

<50.0

<50.0 <50.0

190 664

<50.0

<50.0 <50.0



1980

3400 2360 1510 1600

<20

<50.0

Summary Report

Robert Grubbs COG Operating, LLC 550 W. Texas Avenue Suite 100 Midland, TX 79701

Report Date: September 10, 2015

Work Order: 15082118

Project Location: Eddy Co, NM Project Name: Crossman 25 State

	_		Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
402936	T-1 0-1'	soil	2015-08-19	00:00	2015-08-21
102937	T-1 2'	soil	2015-08-19	00:00	2015-08-21
102938	T-1 4'	soil	2015-08-19	00:00	2015-08-21
402939	T-1 6'	soil	2015-08-19	00:00	2015-08-21
402940	T-1 8'	soil	2015-08-19	00.00	2015-08-21
402941	T-1 10'	soil	2015-08-19	00:00	2015-08-21
402942	T-2 0-1'	soil	2015-08-19	00.00	2015-08-21
402943	T-2 2'	soil	2015-08-19	00.00	2015-08-21
402944	T-2 4'	soil	2015-08-19	00:00	2015-08-21
402945	T-2 6'	soil	2015-08-19	00:00	2015-08-21
402946	T-2 8'	soil	2015-08-19	00:00	2015-08-21
102947	T-2 10'	soil	2015-08-19	00:00	2015-08-21
402948	T-3 0-1'	soil	2015-08-19	00:00	2015-08-21
402949	T-3 2'	soil	2015-08-19	00:00	2015-08-21
402950	T-3 4	soil	2015-08-19	00:00	2015-08-21
402951	T-3 6'	soil	2015-08-19	00:00	2015-08-21
402952	T-3 8'	soil	2015-08-19	00:00	2015-08-21
402953	T-3 10'	soil	2015-08-19	00:00	2015-08-21
402954	T-4 0-1	soil	2015-08-19	00:00	2015-08-21
402955	T-12'	soil	2015-08-19	00:00	2015-08-21
402956	T-4 4'	soil	2015-08-19	00:00	2015-08-21
402957	T-4 6'	soil	2015-08-19	00:00	2015-08-21
402958	T-4 8'	soil	2015-08-19	00:00	2015-08-21
402959	T-4 10°	soil	2015-08-19	00:00	2015-08-21

	TPH DRO	TPH GRO
	DRO	GRO
Sample - Field Code	(mg/Kg)	(mg/Ka)
402936 - T-1 0-1'	<50.0 o qr	<4.00
402937 - T-1 2'	<50.0 b Qr	<4.00
402938 - 'T-1 4'	<50.0 H Qr	< 1.00
402939 - T-1 6'	<50.0 B Qr	<4.00
402940 - T-1 8'	<50.0 в Qг	<4.00
402941 - T-1 10'	<50.0 в	<4.00
402942 - T-2 0-1'	<50.0 в	< 4.00
402943 - T-2 2'	<50.0 в	<4.00
402944 - T-2 4'	<50.0 в	<4.00
402945 - T-2 6'	<50.0 ช	<4.00
402946 - T-2 8'	<50.0 в	<4.00
402947 - T-2 10'	<50.0 в	<4.00
402948 - T-3 0-1'	<50.0 в	<4.00
402949 - T-3 2'	<50.0 в	<4.00
402950 - T-3 4'	<50.0 в	<4.00
402951 - 'T-3 6'	<50.0 в	<4.00
402952 - T-3 8'	<50.0 a	<4.00
402953 - T-3 10'	<50.0 B	<4.00
402954 - T-4 0-1'	<50.0 в	<4.00
402955 - T-4 2'	<50.0 в	<4.00
402956 - T-4 4'	<50.0 в	<4.00
402957 - T-4 6'	<50.0 p	<4.00
402958 - T-4 8'	<50.0 a	<4.00
402959 - 'T-4 10'	<50.0 в	<4.00

Sample: 402936 - T-1 0-1'

Param	Flag	Result	Units	RL
Chloride		490	mg/Kg	4

Sample: 402937 - T-1 2'

Param	Flag	Result	Units	RL
Chioride		490	tug/Kg	4

Sample: 402938 - T-1 4'

Param	Flag	Result	Units	RL
Chloride		196	mg/Kg	4

Sample: 402939 - T-1 6'

Param	Flag	Result	Units	RL
Chloride	_	196	mg/Kg	4

Report Date: Sep	tember 10, 2015	Work Order: 15082118	Page	Number: 3 of 5
Sample: 402940) - T-1 8'			
Param	Flag	Result	Units	RL
Chloride		392	mg/Kg	- 1
Sample: 402941	T-1 10'			
Param	Flng	Result	Units	RL
Chloride		94.0	mg/Kg	ė
Sample: 402942	- T-2 0-1			
Param	Flag	Result	Units	RL
Chloride		1970	mg/Kg	4
Sample: 402943				
Param	Flag	Result	Units	RL
Chloride		939	mg/Kg	4
Sample: 402944	- T-2 4'			
Param	Flag	Result	Units	RL
Chloride		751	mg/Kg	4
Sample: 402945	- T-2 6'			
Param	Flag	Result	Units	RL
Chloride		563	tng/Kg	4
Sample: 402946	- T-2 8'			
Param	■ Flag	Result	Units	pr
Chloride		188	mg/Kg	RL 4
Sample: 402947	- T-2 10'			
Param	Flag	Result	Units	RL
Chloride		94.0	mg/Kg	4

Report Date: September 10, 2015		World Orden, 15000110		5	
- Teport Bate: Sept		Work Order: 15082118	Page	Number: 4 of 5	
Sample: 402948	- T-3 0-1'				
Param	Flng	Result	Units	RL	
Chloride		11000	mg/Kg	4	
Sample: 402949	- T-3 2'				
Param		D. A.			
Chloride	Flag	Result 1690	Units	RL	
		1000	mg/Kg	-1	
Sample: 402950	- T-3 4'				
Param	Flag	Result	Units	RL	
Chloride		282	mg/Kg	RL	
Sample: 402951	- T-3 6'				
Param	Flag	Result	Units	RL	
Chloride		190	mg/Kg	4	
Sample: 402952	- T-3 8'				
Param	Flag	Result	Units	RL	
Chloride		379	mg/Kg	- RL	
Sample: 402953 -	- T-3 10 [,]				
Param	Flag	Result	Units	RL	
Chloride		<20.0	mg/Kg	4	
Sample: 402954 -	- T-4 0-1'				
Param	Flag	Result	Units	RL	
Chloride		474	mg/Kg	4	
			· · · · · · · · · · · · · · · · · · ·		
Sample: 402955 -	- T-4 2'				
Param	Flag	Result	Units	RL	
Chloride		190	mg/Kg	4	

Report Date: Septe	ember 10, 2015	Work Order: 15082118	Page Number: 5	
Sample: 402956 -	- T-4 4'			
Param	Flag	Result	Units	RL
Chloride		664	mg/Kg	4
Sample: 402957 -	- T-4 6'			
Param	Flag	Result	Units	RL
Chloride		474	mg/Kg	4
Sample: 402958 -	· T-4 8'			
Param	Flag	Result	Units	RL
Chloride		95.0	mg/Kg	4
Sample: 402959 -	T-4 10'			
Param	Flag	Result	Units	RL
Chloride		<20.0	mg/Kg	4

Summary Report

Robert Grubbs COG Operating, LLC 550 W. Texas Avenue Suite 100 Midland, TX 79701

Report Date: October 16, 2015

Work Order: 15101536

Project Location: Eddy Co, NM

Project Name: Crossman 25 State #1H

Project Number: ENV015_0002_1

			Date	Time	Date
Sample	Description	Matrix	Taken	Taken	Received
406502	T-5 2'	soil	2015-10-14	00:00	2015-10-15
406503	T-5 4'	soil	2015-10-14	00:00	2015-10-15
406504	T-5 6'	soil	2015-10-14	00:00	2015-10-15
406505	T-5 8'	soil	2015-10-14	00:00	2015-10-15
406506	T-5 10'	soil	2015-10-14	00:00	2015-10-15

Sample: 406502 - T-5 2'

Param	Flag	Result	Units	RL
Chloride		3400	mg/Kg	4

Sample: 406503 - T-5 4'

Param	Flag	Result	Units	RL
Chloride		2360	mg/Kg	4

Sample: 406504 - T-5 6'

Param	Flag	Result	Units	RL
Chloride		1510	mg/Kg	4

 Report Date: October 16, 2015
 Work Order: 15101536
 Page Number: 2 of 2

 Sample: 406505 - T-5 8'
 Param
 Flag
 Result
 Units
 RL

 Chloride
 1600
 mg/Kg
 4

Sample: 406506 - T-5 10'

Param	Flag	Result	Units	RL
Chloride		1980	mg/Kg	-4