Closure Report

	Site Description						
Site Name:	VT 36 State #001H						
Company: COG Operating LLC							
Legal Description:	U/L D, Section 36, T19S, R25E						
County:	Eddy County, NM						
GPS Coordinates:	N 32.62279° W 103.44295°						

Release Data

Date of Release:	07/06/2016
Type of Release:	Produced water
Source of Release:	Faulty 4" Balon valve
Volume of Release:	40 bbls
Volume Recovered:	0 bbls

Remediation Specifications									
Remediation Parameters:	accommodate the Excavate the area titration samples	Excavate the area around T-1 to a depth of 4 feet or deeper to accommodate the new pipeline. Place a liner in the excavation. Excavate the area near T-2 and T-3 to a depth of 2 feet. Obtain field tration samples for sidewall boundaries and bottom delineation in T Backfill the site with clean soil.							
Remediation Activities:	12/19/2016-12/2	23/2016							
Plan Sent to OCD:	12/14/2016	Email from Cliff Brunson to Mike Bratcher							
OCD Approval of Plan:	12/15/2016	Email from Mike Bratcher to Cliff Brunson							
Plan Sent to SLO:	12/14/2016	Email from Cliff Brunson to Amber Groves							
SLO Approval of Plan:	12/21/2016	Email from Amber Groves to Cliff Brunson							

Supporting Documentation

Initial C-141	Signed 07/15/2016
Final C-141	Signed 01/03/2017
Site Diagram	July 2016
Groundwater Plot	125'
TOPO Maps	November 2016
Lab Summary	10/11/2016
Lab Analysis	10/11/2016
Correspondence	Request and approval of remediation plan via email

Request for Closure

Based on the completion of the remediation plan as agreed upon, BBC International requests closure approval from NMOCD.

Cliff Brunson, President of BBC International Inc.

04/21/2016

Form C-141 Revised August 8, 2011

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.

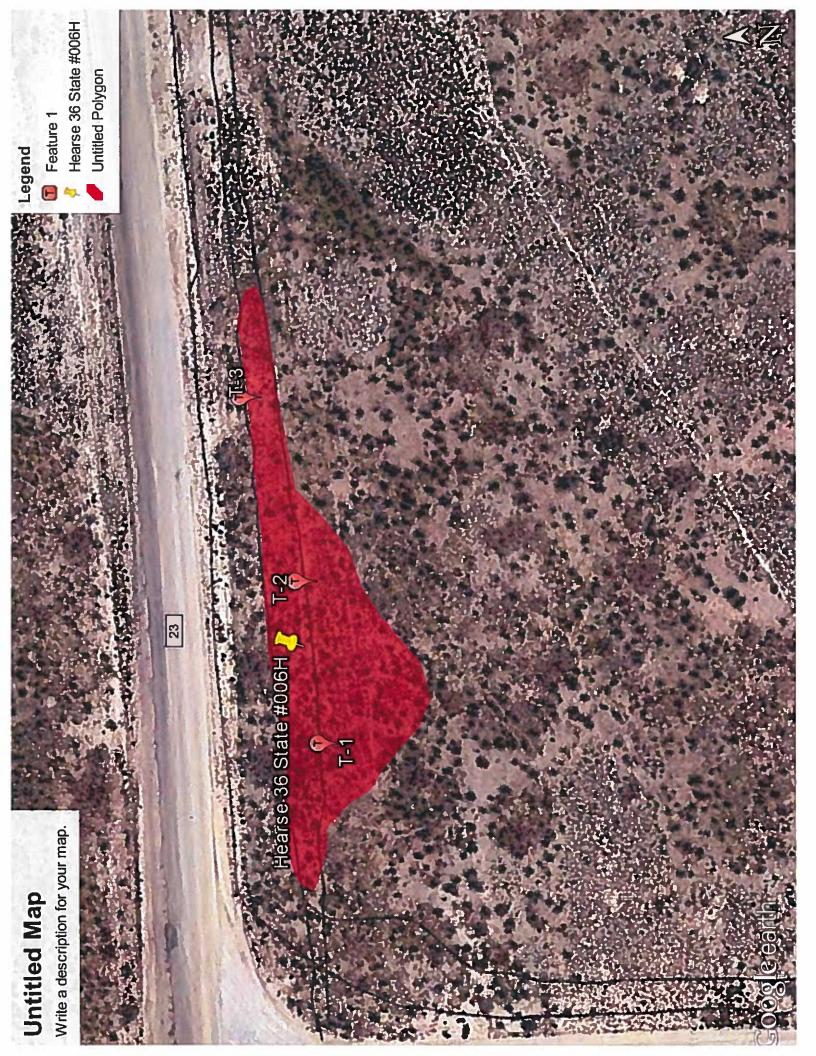
1220 S. St. Flan	cis Dr., Sana	re, Nivi a7303	,	Sa	inta F	^r e, NM 875	05					
			Rele	ase Notific	atio	n and Co	orrective A	ction		· · · <u>-</u> ·		
						OPERA	ΓOR		🛛 Initia	al Report		Final Report
Name of Co			G Operati			Contact:		Rot	oert McNe	eill		
Address:	600 Wes			lland TX 79701		Telephone N	No.	432	-683-744	3		
Facility Nar	ne:	VT :	36 STAT	E #001H		Facility Typ	e:]	Flowline			
Surface Ow	mer:	State		Mineral C	wner:				API No.	. 30-0	15-3	7690
				LOCA	TIO	N OF REI	LEASE				_	
Unit Letter D	Section 36	Township 19S	Range 25E	Feet from the 480'		h/South Line North	Feet from the 330'		/est Line /est		Cou Ed	~
				Latitude 32.62	27913	Longitu	ide 104.445632	9				
				NAT	URE	OF REL	EASE					
Type of Rele	ase:					Volume of			Volume R	ecovered:	_	
		Produced	Water				of Produced Wat			bbls of Prod		
Source of Re	lease:	4" Balon	valve				our of Occurrence 5-2016 08:00am			Hour of Dis 07-06-2016		
Was Immedia	ate Notice C	liven?				If YES, To	Whom?					
				No 🗌 Not Re	quired		Mike Bratche	10.23	22		SLO	
By Whom? Was a Water			Grubbs Jr.			Date and Hour: 7/12/2016 1:36 PM If YES, Volume Impacting the Watercourse.						
Was a Water	course Read		Yes 🗵	No		If YES, Vo	lume Impacting t	he Wate	rcourse.			
If a Watercou	urse was Im	pacted, Descri	ibe Fully.*									
Describe Cau	ise of Proble	em and Reme	dial Action	Taken.*								
- C			4" Balon	valve corroded d	ue to ag	ge. The valve v	vas replaced with	a new o	ne,			
Describe Are	a Affected :	Ind Cleanup A	ction Tak	en *			-					
		·										
This release							mpled to delineat				rom t	he release and
	we	will present a	remediati	on work plan to t		OCD for appr	oval prior to any s	significa	nt remediat	ion work.		
I hereby certi	fy that the i	nformation gi	ven above	is true and comp	ete to	the best of my	knowledge and u	nderstan	d that purs	uant to NMO	OCD	rules and
							id perform correct					
should their c	or the envir	onment. The	acceptanc	e of a C-141 repo	n by ti media	te contaminati	arked as "Final Re on that pose a thre	eport" de	bes not relie	eve the oper	ator (tor b	of hability
or the enviror	nment. In a	ddition. NMO	CD accent	ance of a C-141	renort o	does not reliev	e the operator of r	esnonsil	ality for co	, surface wa mnliance w	ier, n ith ar	uman neann
federal, state,					operr		e nie operator of t	oponan	, , , , , , , , , , , , , , , , , , ,	inprov i		
Simologia				,			OIL CONS	SERV.	ATION	DIVISIC	<u>N</u>	
Signature:		_1	+ 1									
Printed Name	3* *1	Robert	Grubbs Jr	. /		Approved by	Environmental Sp	pecialist:				
Title:	Se	nior Environ	nental Co	ordinator		Approval Dat			xpiration E	Date:		
E-mail Addre	255:	rgrubbs@	<u>concho.co</u>	<u>m</u>		Conditions of	Approval:			Attached		
Date:	July 15, 20	16	Phone:	432-683-7443	3							

* Attach Additional Sheets If Necessary

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.

		-		30	апца г	e, NM 875	05				
			Relo	ease Notifie	catio	n and Co	orrective A	ction			
							OPERATOR Initial Report I Final				
Name of Co	Name of Company: COG Operating LLC						bert McNeill				
				nd, <u>TX</u> 79701			No. 432-230-00)77			
Facility Nat	ne: VT 36	5 State #0011	H			Facility Typ	e: Flow line				
Surface Ow	Surface Owner: State Mineral Own							API No	. 30-015-3	7690	
	LOCATI						LEASE				
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/West Line	County		
	26	_		480		Manah	110	317			
D	36	195	25E	480	Į	North	330	West	Eddy Cou	nty, NP	Λ
			1	Latitude <u>N 32.6</u>	<u>52279°</u>	Longitu	ide <u>W 104.4429</u>	<u>95°</u>			
				NAT	TURE	OF REL	EASE				
Type of Rele	ase: Produ	ced water				Volume of	Release:		lecovered:		
Source of Re	lease: 4" B	alon valve				40 bbls	lour of Occurrence	0 bbls	Hour of Dis	coverv	
						07/06/2010	5 @ 8:00 am		6 @ 8:00 a		
Was Immedi	ate Notice (IVaa E] No 🗌 Not R		If YES, To		mber Groves- SLO			
5 117 0	<u> </u>				equired						
By Whom? Was a Water							Iour: 07/12/2016	the Watercourse.			
	Yes X No										
If a Waterco	urse was Im	pacted, Descr	tibe Fully.	*							
		-	-								
Describe Cat	use of Probl	em and Reme	dial Actio	n Taken.*							
A 4" Balon v	alve corrod	led due to age	. The value	e was replaced w	ith a ne	ew one.					
				·							
Describe Are	a Affected	and Cleanup	Action Ta	ken.≠							
								as sent to NMOCD			
				D via email on 12 the approved pla		16 and approve	ed by Amber Gro	ves of the SLO via	email on 12	/21/20	16.
Kemeulation	was compi	cicu in accore	lance with	the approved pla							
								understand that purs			
								ctive actions for rele Report" does not reli			
should their	operations l	nave failed to	adequately	y investigate and	remedia	ate contaminat	ion that pose a thi	reat to ground water	, surface w	ater, hu	man health
				ptance of a C-141	report	does not reliev	e the operator of	responsibility for c	ompliance v	vith any	y other
ieuerai, state	, or local la	ws and/or reg	utations.					SERVATION	DIVISIO)N	
		_		,				<u>obicention</u>	<u>D1110R</u>	211	
Signature:	76	det 1	1	1				n			
Printed Nam	e: Robert C	Grubbs Jr	/			Approved by	Environmental S	specialist:			
Title: Senio	r Environm	ental Coordin	ator			Approval Da	te	Expiration	Date		
TRIC. Sellio			<u>awı</u>								<u> </u>
E-mail Addr	ess: rgrubb	s@concho.co	m			Conditions o	f Approval:		Attached		
Date: Ja	anuary 3, 20)17	Pho	ne: (432) 683-74	43						

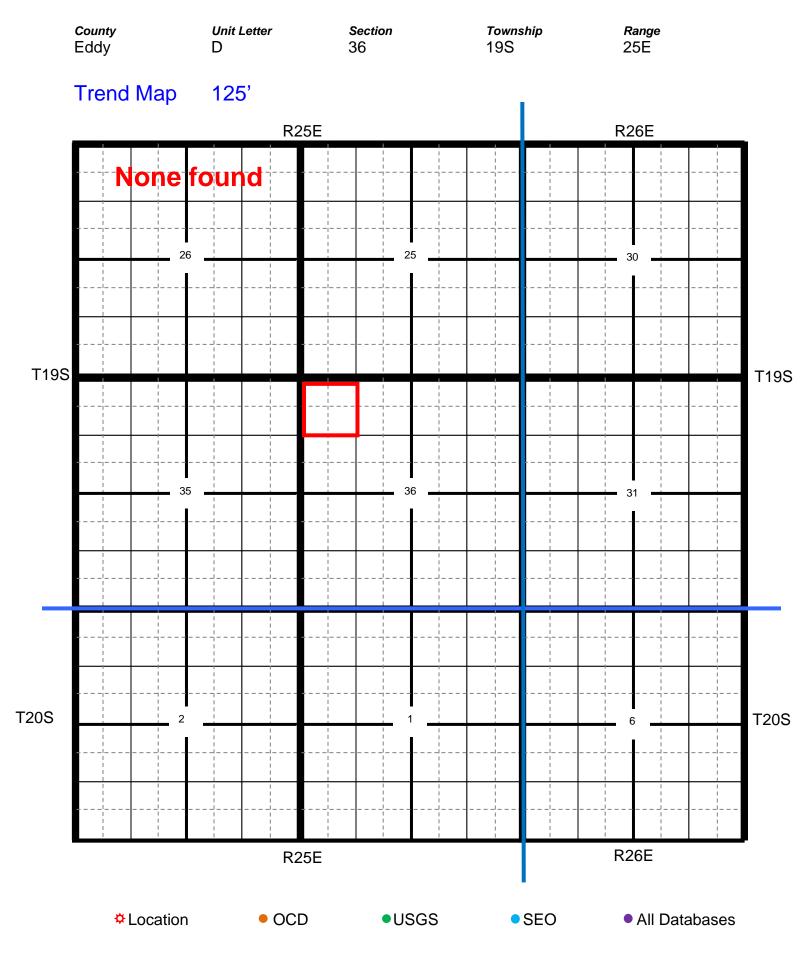
* Attach Additional Sheets If Necessary





Groundwater Plot

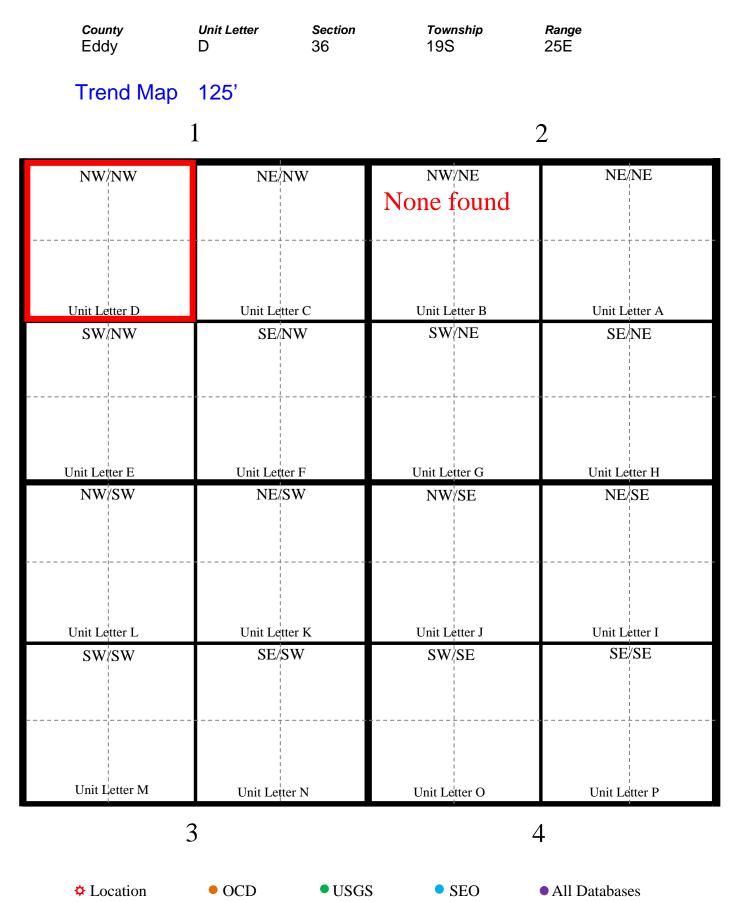
COG VT 36 State #001H





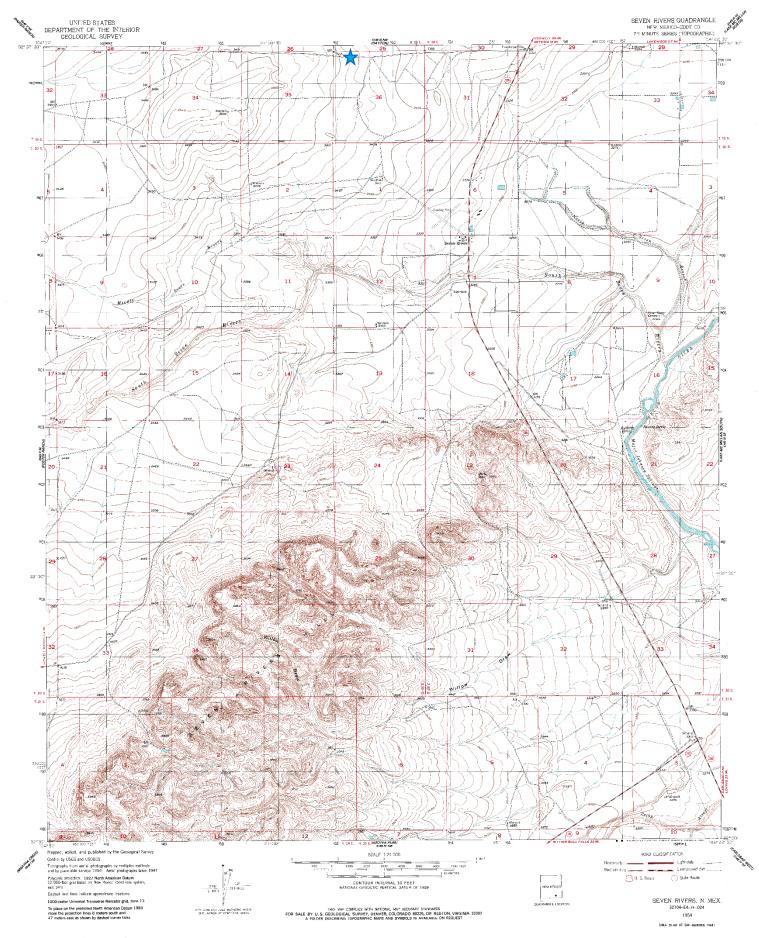
Section Quarters

COG Operating, LLC VT 36 State #001H



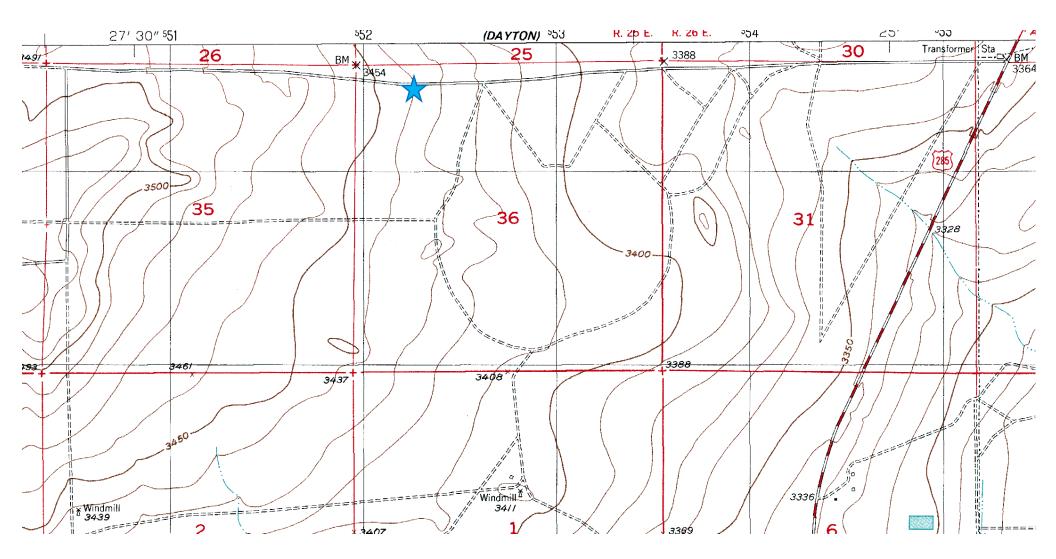
COG

VT 36 State #001H



COG

VT 36 State #001H



Laboratory Analytical Results Summary VT 36 State #001H

		Sample	T1 @ 0-1'	T1 @ 2'	T1 @ 4'	T1 @ 6'	T1 @ 8'	T1 @ 10'	T1 @ 12'
Analyte	Method	Date	10/11/16	10/11/16	10/11/16	10/11/16	10/11/16	10/11/16	10/11/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Toluene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Ethylbenzene	BTEX 8021B		<0.050	<0.050	n/a	n/a	n/a	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a	n/a	n/a	n/a
Total BTEX	BTEX 8021B		< 0.300	<0.300	n/a	n/a	n/a	n/a	n/a
Chloride	SM4500CI-B		3760	3880	3760	4640	3560	3040	2960
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a	n/a	n/a	n/a

		Sample	T2 @ 0-1'	T2 @ 2'	T2 @ 4'	T2 @ 6'
Analyte	Method	Date	10/11/16	10/11/16	10/11/16	10/11/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	n/a	n/a
Toluene	BTEX 8021B		< 0.050	<0.050	n/a	n/a
Ethylbenzene	BTEX 8021B		< 0.050	<0.050	n/a	n/a
Total Xylenes	BTEX 8021B		<0.150	<0.150	n/a	n/a
Total BTEX	BTEX 8021B		< 0.300	<0.300	n/a	n/a
Chloride	SM4500CI-B		1720	1360	544	64
GRO	TPH 8015M		<10.0	<10.0	n/a	n/a
DRO	TPH 8015M		<10.0	<10.0	n/a	n/a

		Sample	T3 @ 0-1'	T3 @ 2'	T3 @ 4'
Analyte	Method	Date	10/11/16	10/11/16	10/11/16
			mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	< 0.050
Toluene	BTEX 8021B		<0.050	<0.050	< 0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	< 0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	< 0.300
Chloride	SM4500CI-B		6000	5600	224
GRO	TPH 8015M		<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0



October 20, 2016

ROBERT GRUBBS, JR COG OPERATING P. O. BOX 1630

ARTESIA, NM 88210

RE: HEARSE 36 STATE #006H

Enclosed are the results of analyses for samples received by the laboratory on 10/12/16 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/ga/lab_accred_certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keine

Celey D. Keene Lab Director/Quality Manager



COG OPERATING ROBERT GRUBBS, JR P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	10/12/2016	Sampling Date:	10/11/2016
Reported:	10/20/2016	Sampling Type:	Soil
Project Name:	HEARSE 36 STATE #006H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	EDDY COUNTY, NM		

Sample ID: T-1 0-1' (H602305-01)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2016	ND	2.29	114	2.00	0.988	
Toluene*	<0.050	0.050	10/13/2016	ND	2.39	119	2.00	1.16	
Ethylbenzene*	<0.050	0.050	10/13/2016	ND	2.31	116	2.00	1.50	
Total Xylenes*	<0.150	0.150	10/13/2016	ND	6.99	116	6.00	1.41	
Total BTEX	<0.300	0.300	10/13/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	102 9	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	10/13/2016	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/13/2016	ND	183	91.7	200	0.933	
DRO >C10-C28	<10.0	10.0	10/13/2016	ND	193	96.7	200	0.574	
Surrogate: 1-Chlorooctane	95.0	% 35-147							
Surrogate: 1-Chlorooctadecane	98.6	% 28-171							

Cardinal Laboratories

*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING ROBERT GRUBBS, JR P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	10/12/2016	Sampling Date:	10/11/2016
Reported:	10/20/2016	Sampling Type:	Soil
Project Name:	HEARSE 36 STATE #006H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	EDDY COUNTY, NM		

Sample ID: T-1 2' (H602305-02)

BTEX 8021B	mg/	′kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2016	ND	2.29	114	2.00	0.988	
Toluene*	<0.050	0.050	10/13/2016	ND	2.39	119	2.00	1.16	
Ethylbenzene*	<0.050	0.050	10/13/2016	ND	2.31	116	2.00	1.50	
Total Xylenes*	<0.150	0.150	10/13/2016	ND	6.99	116	6.00	1.41	
Total BTEX	<0.300	0.300	10/13/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	<i>99.3</i>	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	′kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3880	16.0	10/13/2016	ND	400	100	400	3.92	
TPH 8015M	mg/	′kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/13/2016	ND	183	91.7	200	0.933	
DRO >C10-C28	<10.0	10.0	10/13/2016	ND	193	96.7	200	0.574	
Surrogate: 1-Chlorooctane	91.6	% 35-147	,						
		% 28-171							

Sample ID: T-1 4' (H602305-03)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3760	16.0	10/18/2016	ND	416	104	400	0.00	

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*=Accredited Analyte

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING ROBERT GRUBBS, JR P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	10/12/2016	Sampling Date:	10/11/2016
Reported:	10/20/2016	Sampling Type:	Soil
Project Name:	HEARSE 36 STATE #006H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	EDDY COUNTY, NM		

Sample ID: T-1 6' (H602305-04)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4640	16.0	10/19/2016	ND	416	104	400	3.77	

Sample ID: T-1 8' (H602305-05)

Chloride, SM4500CI-B mg/kg		/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3560	16.0	10/20/2016	ND	432	108	400	3.77	

Sample ID: T-1 10' (H602305-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	10/20/2016	ND	432	108	400	3.77	

Sample ID: T-1 12' (H602305-07)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2960	16.0	10/20/2016	ND	432	108	400	3.77	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING ROBERT GRUBBS, JR P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	10/12/2016	Sampling Date:	10/11/2016
Reported:	10/20/2016	Sampling Type:	Soil
Project Name:	HEARSE 36 STATE #006H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	EDDY COUNTY, NM		

Sample ID: T-2 0-1' (H602305-08)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/13/2016	ND	2.29	114	2.00	0.988	
Toluene*	<0.050	0.050	10/13/2016	ND	2.39	119	2.00	1.16	
Ethylbenzene*	<0.050	0.050	10/13/2016	ND	2.31	116	2.00	1.50	
Total Xylenes*	<0.150	0.150	10/13/2016	ND	6.99	116	6.00	1.41	
Total BTEX	<0.300	0.300	10/13/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	99.0 \$	73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1720	16.0	10/13/2016	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/13/2016	ND	184	91.8	200	5.61	
DRO >C10-C28	<10.0	10.0	10/13/2016	ND	191	95.7	200	5.61	
Surrogate: 1-Chlorooctane	77.0 \$	% 35-147							
Surrogate: 1-Chlorooctadecane	84.4 9	28-171							

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING ROBERT GRUBBS, JR P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	10/12/2016	Sampling Date:	10/11/2016
Reported:	10/20/2016	Sampling Type:	Soil
Project Name:	HEARSE 36 STATE #006H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	EDDY COUNTY, NM		

Sample ID: T-2 2' (H602305-09)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/13/2016	ND	2.29	114	2.00	0.988	
Toluene*	<0.050	0.050	10/13/2016	ND	2.39	119	2.00	1.16	
Ethylbenzene*	<0.050	0.050	10/13/2016	ND	2.31	116	2.00	1.50	
Total Xylenes*	<0.150	0.150	10/13/2016	ND	6.99	116	6.00	1.41	
Total BTEX	<0.300	0.300	10/13/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	101 %	6 73.6-14	0						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1360	16.0	10/13/2016	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/13/2016	ND	184	91.8	200	5.61	
DRO >C10-C28	<10.0	10.0	10/13/2016	ND	191	95.7	200	5.61	
Surrogate: 1-Chlorooctane	87.9 9	% 35-147	7						
	100 %	6 28-171							

Sample ID: T-2 4' (H602305-10)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	544	16.0	10/18/2016	ND	416	104	400	3.77	QM-07, QR-03

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING ROBERT GRUBBS, JR P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	10/12/2016	Sampling Date:	10/11/2016
Reported:	10/20/2016	Sampling Type:	Soil
Project Name:	HEARSE 36 STATE #006H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	EDDY COUNTY, NM		

Sample ID: T-2 6' (H602305-11)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	10/19/2016	ND	416	104	400	3.77	

Sample ID: T-3 0-1' (H602305-13)

BTEX 8021B	mg/	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	10/14/2016	ND	2.35	118	2.00	0.427	
Toluene*	<0.050	0.050	10/14/2016	ND	2.44	122	2.00	0.401	
Ethylbenzene*	<0.050	0.050	10/14/2016	ND	2.37	118	2.00	0.470	
Total Xylenes*	<0.150	0.150	10/14/2016	ND	7.18	120	6.00	0.363	
Total BTEX	<0.300	0.300	10/14/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	100	% 73.6-14	0						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	6000	16.0	10/13/2016	ND	400	100	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/13/2016	ND	184	91.8	200	5.61	

Surrogate: 1-Chlorooctane 94.7 % Surrogate: 1-Chlorooctadecane 103 %

<10.0

10.0

35-147

28-171

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DRO >C10-C28

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5.61

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ND

191

95.7

200

10/13/2016

Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager



COG OPERATING ROBERT GRUBBS, JR P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:	10/12/2016	Sampling Date:	10/11/2016
Reported:	10/20/2016	Sampling Type:	Soil
Project Name:	HEARSE 36 STATE #006H	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Angela Cabrera
Project Location:	EDDY COUNTY, NM		

Sample ID: T-3 2' (H602305-14)

BTEX 8021B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	10/14/2016	ND	2.35	118	2.00	0.427	
Toluene*	<0.050	0.050	10/14/2016	ND	2.44	122	2.00	0.401	
Ethylbenzene*	<0.050	0.050	10/14/2016	ND	2.37	118	2.00	0.470	
Total Xylenes*	<0.150	0.150	10/14/2016	ND	7.18	120	6.00	0.363	
Total BTEX	<0.300	0.300	10/14/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	98.7	% 73.6-14	0						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	10/13/2016	ND	400	100	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	10/13/2016	ND	184	91.8	200	5.61	
DRO >C10-C28	<10.0	10.0	10/13/2016	ND	191	95.7	200	5.61	
Surrogate: 1-Chlorooctane	77.2	% 35-147	,						

Sample ID: T-3 4' (H602305-15)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	10/18/2016	ND	416	104	400	3.77	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
QR-03	The RPD value for the sample duplicate or MS/MSD was outside if QC acceptance limits due to matrix interference. QC batch accepted based on LCS and/or LCSD recovery and/or RPD values.
QM-07	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
ND	Analyte NOT DETECTED at or above the reporting limit
RPD	Relative Percent Difference
**	Samples not received at proper temperature of 6°C or below.
***	Insufficient time to reach temperature.
-	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celey D. Keine

Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

-	COC Operating LLC		BILL TO		ANALYSIS REQUEST
Project Manager: F	Robert Grubbs Jr		P.O. #:		
≤	est Main	0	Company: COG Operating LLC	g LLC	
Inte	State: NM	Zip 88210	Attn: Robert McNeill	=	
e#	432-661-6601 Fax #:		Address: 600 W Illinois	Dis	
a	Project Owner:		City: Midland		
ame:	Hearse 36 State #006H		State: TX Zip: 79701		
on:	Eddy Co, New Mexico		Phone #: (432) 221-0388		
Project Location.	Ludy CO, NOW MORE		E>+ #:		
	Rober Grubbs Jr.		1	1	
		MATRIX	PRESERV. SAMPLING	6,	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP. # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER :	ТРН	
1	T-1 0-1'	-			
1	T-1 2'	1 X	X 10/11/16		
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-a		1 ×	X 10/11/16		1
20	T-2 2'	1 X		(X) (1
6	T-2 4'	1 X dv for any claim arising whether based in contract	t or tort, shall be limited to the amount paid	by the client for the	
PLEASE NOTE: Liability and Da analyses. All claims including the service. In no event shall Cardini	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any tain an ansary winetine userour in conserver or the problem of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless material so to so its of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, service. In no event shall Cardinal be liable for incidental or consequentiate constraints on other wise.	dy tor any claim arsing wrieurer useour in common shall be deemed waived unless made in writing an including without limitation, business interruptions,	a raising ymeurei cusacu ir consor creating and received by Cardinal within 30 days after l waived unless made in writing and received by Cardinal within 30 days after I limitation, business interruptions, loss of use, or loss of profits incurred by oli recording the state of the state of the state of the above stated reating the state of the above state of reating the state of the state o	pplicable	
affiliates or successors arising ou Relinquished By:	sors arising out of or related to the performance of services hereunder by Ga red By: Date: 10/12/2016	016 Received By:		Phone Result: Yes No Fax Result: Yes No becauabys:	o Add'I Phone #: o Add'I Fax #:
Relinquished By:	Time: 11:00 Date:	Received By.	Monn	REMAKKS:	<u>dneel2@concho.com</u> rgrubbs@concho.com
	Time:	Sample Condition	tion CHECKED BY:	Run the first two horizons if Chlorides exceeds 250mg/kg, Beenzene exceeds 10mg/kg,	lorides exceeds 250mg/kg, Be
Delivered By: (Circle One)	(Circle One)	Cool Intact		Benzene exceeds 10mg/kg, BTEX exceeds 50mg/kg, and Trrn exceeds 500mg/kg, and Trrn	EX exceeds 50mg/kg, and 1rn next horizon
FORM-006 R 2.0 Sampler - UPS - Bus - Other:		Thes Tres	なす		

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

From:	Groves, Amber
To:	Bratcher, Mike, EMNRD; Cliff Brunson
Cc:	Robert Grubbs; Ken Swinney; Jennifer Gilkey; Kathy Purvis; Patterson, Heather, EMNRD; Weaver, Crystal,
	EMNRD
Subject:	RE: COG VT 36 State #001H - Remediation Plan
Date:	Wednesday, December 21, 2016 10:49:29 AM
Attachments:	image001.png
	image002.png

Cliff,

I apologize about the delay on a follow up e-mail on this one, however this is to confirm that I gave verbal approval. Please send in your re-vegetation plan when you can.

Thank you,

Amber Groves

Remediation Specialist Field Operations Division (575)392-3697 (575)263-3209 cell New Mexico State Land Office 2827 N. Dal Paso Suite 117 Hobbs, NM 88260

*The New Mexico State Land Office will be closed from 12/23/2016 – 01/02/2017. The office will reopen on 01/03/2017. Happy Holidays!

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From: Bratcher, Mike, EMNRD [mailto:mike.bratcher@state.nm.us]

Sent: Thursday, December 15, 2016 7:54 AM

To: Cliff Brunson <cbrunson@bbcinternational.com>; Groves, Amber <agroves@slo.state.nm.us> Cc: Robert Grubbs <RGrubbs@concho.com>; Ken Swinney <kswinney@bbcinternational.com>; Jennifer Gilkey <jgilkey@bbcinternational.com>; Kathy Purvis <kathy@bbcinternational.com>; Patterson, Heather, EMNRD <Heather.Patterson@state.nm.us>; Weaver, Crystal, EMNRD <Crystal.Weaver@state.nm.us>

Subject: RE: COG VT 36 State #001H - Remediation Plan

RE: COG * VT 36 St 1 * **2RP-3781** * DOR: 7/6/16

Cliff,

Your proposal for remediation of the above referenced release is approved. You may proceed on your schedule.

OCD approval does not relieve the operator of liability should their operations fail to adequately investigate and remediate contamination that may pose a threat to ground water, surface water, human health or the environment. In addition, OCD approval does not relieve the operator of responsibility for compliance with any other federal, state, local laws and/or regulations.

If you have any questions or concerns, please contact me.

Mike Bratcher NMOCD District 2 811 S. First St. Artesia NM 88210 575-748-1283 Ext 108 mike.bratcher@state.nm.us

From: Cliff Brunson [mailto:cbrunson@bbcinternational.com]
Sent: Wednesday, December 14, 2016 6:18 PM
To: Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>>; Amber Groves
<<u>agroves@slo.state.nm.us</u>>
Cc: Robert Grubbs <<u>RGrubbs@concho.com</u>>; Ken Swinney <<u>kswinney@bbcinternational.com</u>>;
Jennifer Gilkey <<u>jgilkey@bbcinternational.com</u>>; Kathy Purvis <<u>kathy@bbcinternational.com</u>>
Subject: COG VT 36 State #001H - Remediation Plan

Mike and Amber,

This e-mail is to confirm our discussion concerning the remediation plan for the COG VT 36 State #001H release. I have attached the information packet that we used in our discussion with a cover page describing the remediation plan that we agreed upon.

COG and I appreciate the both of you rushing this acceptance of the plan due to the pipeline installation project. Amber, as we discussed, I will get you a revegetation plan for this site later.

If you would please reply via e-mail with your concurrence on this plan, it would be greatly appreciated.

Thanks, Cliff

Cliff P. Brunson, CEI, CRS President BBC International, Inc. World-Wide Environmental Specialists Mailing Address: P. O. Box 805 Hobbs, NM 88241-0805 USA Shipping Address: 1324 W. Marland St. Hobbs, NM 88240 USA Phone: (575) 397-6388 Fax: (575) 397-0397 E-Mail: cbrunson@bbcinternational.com



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