

November 15, 2017

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

Shelly Tucker Bureau of Land Management 620 E. Green St. Carlsbad, NM 88220

Re: Closure Letter

Showstopper 7 Federal Com #001H (2RP-3802)

API #: 30-015-36559

Unit Letter A Section 7, Township 25S, Range 29E

Eddy County, NM

Mr. Bratcher/Ms. Tucker,

COG Operating, LLC (COG) is pleased to submit for your consideration the following closure request for the Showstopper 7 Federal Com #001H. This release occurred on July 16, 2016 and impacted the pasture. All work has been completed in accordance with the work plan submitted and approved by the New Mexico Oil Conservation Division (NMOCD) on November 21, 2016.

Background

On July 16, 2016, a poly flowline ruptured and released approximately twenty (20) barrels of produced water of which zero (0) were recovered.

Remedial Actions

Received by OCD: 12/1/2022 9:29:47 AM

- BH-2 Excavated to a depth of 6-7 feet.
- BH-3 Excavated to a depth of 6-7 feet.

All of the excavated soil was hauled to an NMOCD approved solid waste disposal facility. The excavation was backfilled with like material, contoured to match the surrounding terrain and reseeded.

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Received by OCD: 12/1/2022 9:29:47 AM

Closure Request

Based on the information provided, COG Operating LLC would like to submit the enclosed documents for closure of the above captioned release. A signed C-141 Final is enclosed for your consideration.

Please feel free to contact me with any questions or concerns at (575) 746-2010.

Sincerely,

Dakota Neel

HSE Coordinator

Datok Rey

dneel2@conchol.com

Enclosed:

- (1) Site Diagram
- (2) Laboratory Analytical Reports and Chain-of-Custody Forms
- (3) Initial C-141 (Copy)
- (4) Final C-141



Mapped By Isabel Marmaleys

Received by OCD: 12/1/2022 9:29:47 AM

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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

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe. NM 87505

Form C-141 Revised August 8, 2011

Released to Imaging: 12/1/2022 9:33:56 AM

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

						-						
			Rele	ase Notific	atio	on and Co	orrective A	ctio	n			
						OPERA	ГOR		☐ Initia	al Report	\boxtimes	Final Report
Name of Co	mpany: C	OG Operatir	ig LLC			Contact: Ro	bert McNeill					
Address: 60	0 West III	inois Avenue	. Midland	ITX 79701			No. 432-683-74	143				
Facility Na	ne: SHOV	STOPPER	7 FEDER	AL COM #001	Н	Facility Type	e: Well				•	
Surface Ow	ner: Fede	eral		Mineral C	wner	: Federal			API No	. 30-015-3	6559	
	· ·			TOCA	TIC	ON OF RE	LICACIE					
Unit Letter	Section	Township	Range	Feet from the		th/South Line	Feet from the	Fast/	West Line	1	Coun	tv
A	7	25S	29E	330	1401	North	480		East		Eddy	
				Latitude/Lon	gitud	le 32.1511154	I,-104.0167618	_				
						E OF REL						
Type of Rele	ase.			NAI	UKI	Volume of			Volume F	Recovered:		
Produced Wa						20 bbls PV			0 bbls PW			
Source of Re							lour of Occurrenc	e:	Date and	Hour of Dis	covery	
Poly Flowlin		h1 0				7/16/2016.			7/16/2016	8:00 am		
Was Immedia	ite Notice (Yes \square	No 🛛 Not Re	auire	If YES, To	Whom?					
By Whom?				7.0 23 7.00.10		Date and I	lour			<u> </u>		
Was a Water	course Read	ched?					lume Impacting t	he Wat	ercourse			
			Yes 🛛	No		11 125, 11	name impacting t	are war	cicouisc.			
If a Watercou	rse was Im	nacted Descri	he Fully *									
		,,	,.									
Describe Cau	se of Proble	em and Remed	dial Action	Taken.*								
This release v	vas caused	by a ruptured	poly flowli	ne. Although a v	acuun	n truck was dis	patched, due to the	e hot w	eather no fli	uid was reco	verable	B.
Describe Are	n Δ ffected :	and Cleanup A	etion Take	•			_					
Describe Aire	a Attocleu (and Cicanup r	tenon rake	JI.,								
This release of	occurred in	the pasture alo	ng the road	l in section 8. It i	impacı	ted approximat	ely 3500 sq ft. Co	ncho h	ad the spill :	site sampled	l to deli	neate any
possible impa	ct from the	release and p	resented a i	emediation work	c plan	to the NMOCE	and BLM for ap	proval	prior to any	significant	remedia	ation work.
All work has	been compl	leted accordin	g to the wo	rkplan approved	by the	: NMOCD on I	November 21, 201	16.				
I hereby certi	fy that the i	nformation gi	ven above i	s true and compl	ete to	the best of my	knowledge and u	ndersta	nd that nure	uant to NM	በርከ ո	ilec and
regulations al	loperators	are required to	report and	l/or file certain re	elease	notifications a	nd perform correc	tive act	ions for rele	eases which	mav en	danger
public health	or the envir	onment. The	acceptance	of a C-141 repo	rt by t	he NMOCD m	arked as "Final Re	eport" d	loes not reli	eve the oper	ator of	liability
should their o	perations h	ave failed to a	dequately i	nvestigate and re	media	ate contaminati	on that pose a thre	eat to g	round water.	, surface wa	ter, hui	man health
or the enviror	iment. In a	ddition, NMO	CD accepta	ince of a C-141 i	report	does not reliev	e the operator of r	espons	ibility for co	ompliance w	ith any	other
_federal, state,	or local lav	vs and/or regu	lations.				011 602		/ A TO LO	51111010		
	Datok	n.					OIL CONS	SERV	ATION	DIVISIO	<u>N</u>	
Signature:												
Printed Name		Dakota Nec	-I			Approved by	Environmental Sp	pecialis	1: A16	low W	1000	1000
I I I I I I I I I I I I I I I I I I I	-	Danoui NC		<u> </u>					_ ^ \ \	ley W	uju	· · · · ·
Title:	<u>H</u> :	SE Coordinate	or			Approval Dat	e: 12/1/202	2	Expiration I	\mathcal{C}		
E-mail Addre	ss:	dneel2@c	oncho.com			Conditions of	Approval:					
		_				Conditions Of	- spprovui.			Attached		
Date: Noven	nber 15, 20	17	Phone:	575-746-201	10				_			

* Attach Additional Sheets If Necessary

Received by OCD: 12/1/2022 9:29:47 AM

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

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Form C-141 Revised August 8, 2011

Released to Imaging: 12/1/2022 9:33:56 AM

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

			D -1	DI-41C	- 4 *		A* A	4+		-			
			Kele	ease Notific	atio			ction					
Name of C		00000	-110			OPERA'			Initi	al Report		Final Report	
Address: 60	ompany: C	OG Operatin inois Avenue	g LLC Midlen	d TV 70701			bert McNeill	142					
				AL COM #001F	_	Facility Typ	No. 432-683-74	43	_				
			FEDER	AL COM #001F	1	racinty Typ	e: well						
Surface Ow	ner: Fede	ral		Mineral O	wner	: Federal			API No. 30-015-36559				
				LOCA	TIO	N OF REI	LEASE						
Unit Letter	Section	Township	Range	Feet from the	Nort	h/South Line	Feet from the		West Line		Coun	ty	
A	7	258	29E	330'		North_	480'		East		Edd	<u>y</u>	
				Latitude/Long	gitud	e 32.1511154	,-104.0167618						
				NATI	URF	OF RELI	EASE						
Type of Rele	ase:					Volume of			Volume F	Recovered:			
Produced Wa	ter					20 bbls PW	<i>1</i>		0 bbls PV				
Source of Re						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	our of Occurrenc	e:		Hour of Dis	covery	:	
Poly Flowlin Was Immedi		liven?				7/16/2016, If YES, To			7/16/2016	8:00 am			
TT MS LIMITED	ale ivolice c		Yes 🗌	No 🛛 Not Rec	quired		wholit:						
By Whom?						Date and H	our:						
Was a Water	course Reac				_		lume Impacting t	he Wate	rcourse.		-		
			Yes 🛚	No									
This release	vas caused l	by a ruptured p	ooly flowl	ine. Although a va	cuum	truck was disp	atched, due to the	e hot we	ather no flo	uid was reco	verable		
Describe Are	a Affected a	and Cleanup A	ction Tak	en.*						· · · ·			
work.	contaminati	on from the re	lease and	d in section 8. It in we will present a r	emed	iation work pla	n to the NMOCD	for app	roval prior	to any signi	ficant :	remediation	
regulations al public health should their cor the environ	l operators a or the envir perations ha ament. In ac	are required to onment. The a ave failed to ac	report and acceptance dequately CD accept	is true and comple d/or file certain rel- e of a C-141 report investigate and ren- ance of a C-141 re	ease r t by th nediat	notifications an ne NMOCD ma te contamination	d perform correct irked as "Final Re on that pose a thre	tive action eport" de eat to gre	ons for rele oes not reli- ound water.	ases which eve the oper	may en ator of ter, hur	danger liability	
Signature:	Am	ml T.	Danis	· 			OIL CONS	SERV	ATION	DIVISIO	N		
Printed Name	:	Amanda Tri	ujillo Dav	is	_ .	Approved by	Environmental Sp	ecialist					
Title:	Se	nior Environn	iental Coc	ordinator		Approval Date	: :	_ E	xpiration [Date:			
E-mail Addre	ss:	atrujillo@c	concho.co	m	_	Conditions of	Approval:			Attached			
Date: July 2:	2, 2016		Phone:	575-748-6940									



August 19, 2016

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: SHOWSTOPPER 7 FED COM #1H

Enclosed are the results of analyses for samples received by the laboratory on 08/16/16 16:45.

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.

Celeg D. Keene

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. Keene

Received by OCD: 12/1/2022 9:29:47 AM

Lab Director/Quality Manager





Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:

08/16/2016

Reported:

08/19/2016

Project Name: Project Number: SHOWSTOPPER 7 FED COM #1H

Project Location:

NONE GIVEN
EDDY COUNTY

93.7%

28-171

Sampling Date:

inpling Date.

08/15/2016

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

Sample ID: AH-1 (0-1') (H601832-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2016	ND	2.32	116	2.00	1.22	
Toluene*	<0.050	0.050	08/17/2016	ND	2.37	119	2.00	1.57	
Ethylbenzene*	<0.050	0.050	08/17/2016	ND	2.29	114	2.00	1.73	
Total Xylenes*	<0.150	0.150	08/17/2016	ND	6.90	115	6.00	1.52	
Total BTEX	<0.300	0.300	08/17/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIL	108 %	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	688	16.0	08/18/2016	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/17/2016	ND	189	94.3	200	7.74	
DRO >C10-C28	<10.0	10.0	08/17/2016	NĐ	198	98.9	200	7.06	
Surrogate: I-Chlorooctane	84.49	6 35-147							

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Surrogate: 1-Chlorooctadecane

*=Accredited Analyte

PLEASE NOTE. Usbfirty and Demages. Certinal's liability and cleares exclusive remady for any clear arrang, whether based in contract or cort, shall be limited to the amount paid by clear for analyses. All cleares, including those for negligence and any other cause whilesoner shall be determed viewed unless made in writing and received by Cardinal within theiry (30) days after completion of the applicables service. In no event shall Cardinal be fields for incidental or consequential claimages including, within hiristonic, business interruptions, loss of use, or loss of use, and the particular propriety in the services hareunder by Cardinal, regardless of whether suct clears to best of use above stated restorms or otherwise. Results related only to the services hareunder by Cardinal, regardless of whether suct clear is bested upon any of the atoms stated restorms or otherwise. Results related only to the sampless described above. The services in fall with written approval of Cardinal Liboratories.

Celleg D. Konne





Analytical Results For:

COG OPERATING **DAKOTA NEEL** P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

08/16/2016

Reported:

08/19/2016

Project Name: Project Number:

SHOWSTOPPER 7 FED COM #1H NONE GIVEN

Project Location:

EDDY COUNTY

Sampling Date:

Sampling Type:

Sampling Condition:

Soil Cool & Intact

08/15/2016

Sample Received By:

Jodi Henson

Sample ID: AH-1 (1-1.5') (H601832-02)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	08/17/2016	ND	2.32	116	2.00	1.22	
Toluene*	<0.050	0.050	08/17/2016	ND	2.37	119	2.00	1.57	
Ethylbenzene*	<0.050	0.050	08/17/2016	ND	2.29	114	2.00	1.73	
Total Xylenes*	<0.150	0.150	08/17/2016	ND	6.90	115	6.00	1.52	
Total BTEX	<0.300	0.300	08/17/2016	ND					
Surrogate 4-Bromosluorobenzene (PIL	106 %	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	192	16.0	08/18/2016	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/17/2016	ND	189	94.3	200	7.74	
DRO >C10-C28	<10.0	10.0	08/17/2016	ND	198	98.9	200	7.06	
Surrogate: 1-Chlorooctane	8489	6 35-147	,		-	-	 		
Surrogate: 1-Chlorooctadecane	95.3 9	6 28-171							

Sample ID: AH-1 (2-2.5') (H601832-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	144	16.0	08/18/2016	ND	400	100	400	0.00	

Cardinal Laboratories

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*=Accredited Analyte

Celley . Kine

Celey D. Keene, Lab Director/Quality Manager





Analytical Results For:

COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received: Reported: 08/16/2016

08/19/2016

Project Name: Project Number: SHOWSTOPPER 7 FED COM #1H

Project Location:

EDDY COUNTY

NONE GIVEN

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

08/15/2016

Soil

Sample ID: AH-1 (3-3.5') (H601832-04)

Chloride, SM4500CI-B

mg/kg

Analyzed By: AC

Analyte

Result

Reporting Limit 16.0

Analyzed

Analyzed

Method Blank

BS

% Recovery 100

True Value QC

RPD

Qualifier

Chloride

Chloride

496

08/18/2016

ND

400

400

0.00

Sample ID: AH-1 (4-4.5') (H601832-05)

Chloride, SM4500Cl-B

Analyzed By: AC

Analyte Result Reporting Limit 400 16.0

08/18/2016

ND

Method Blank

BS. 400 % Recovery 100

400

True Value QC

RPD 0.00

Qualifier

Cardinal Laboratories

*=Accredited Analyte

Celling & Konne

Released to Imaging: 12/1/2022 9:33:56 AM



Analytical Results For:

COG OPERATING **DAKOTA NEEL** P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

08/16/2016

Reported:

08/19/2016

Project Name: Project Number: SHOWSTOPPER 7 FED COM #1H

Project Location:

NONE GIVEN **EDDY COUNTY** Sampling Date:

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

08/15/2016

Sample Received By:

Jodi Henson

Sample ID: AH-2 (0-1') (H601832-06)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2016	ND	2.32	116	2.00	1.22	
Toluene*	<0.050	0.050	08/17/2016	ND	2.37	119	2.00	1.57	
Eth ylbenzene*	<0.050	0.050	08/17/2016	ND	2.29	114	2.00	1.73	
Total Xylenes*	<0.150	0.150	08/17/2016	ND	6.90	115	6.00	1.52	
Total BTEX	<0.300	0.300	08/17/2016	ND					
Surrogate 4-Bromofluorobenzene (PIE	108	% 73.6-14	0						
Chloride, SM4500CI-B	mg/	/kg	Analyze	d By: AC					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	22800	16.0	08/18/2016	ND	400	100	400	0.00	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/17/2016	ND	189	94.3	200	7.74	
DRO >C10-C28	<10.0	10,0	08/17/2016	ND	198	98.9	200	7.06	

Surrogate: 1-Chlorooctane

93.8 %

Surrogate: 1-Chlorooctadecane

108 %

35-147 28-171

Cardinal Laboratories

Received by OCD: 12/1/2022 9:29:47 AM

*=Accredited Analyte

ted to the performance of the services hereunder by Cardinal, regardless of whether such

Celling & Kinne

Celey D. Keene, Lab Director/Quality Manager





Analytical Results For:

COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

08/16/2016

08/19/2016

Reported: Project Name:

SHOWSTOPPER 7 FED COM #1H

Project Number:

NONE GIVEN

Project Location:

EDDY COUNTY

Sampling Date:

inpling bace.

Sampling Type:

Sampling Condition: Sample Received By: 08/15/2016 Soil Cool & Intact

Jodi Henson

Sample ID: AH-2 (1-1.5') (H601832-07)

STEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/17/2016	ND	2.32	116	2.00	1.22	
Toluene*	<0.050	0.050	08/17/2016	ND	2.37	119	2.00	1.57	
Ethylbenzene*	<0.050	0.050	08/17/2016	ND	2.29	114	2.00	1.73	
Total Xylenes*	<0.150	0.150	08/17/2016	ND	6.90	115	6.00	1.52	
Total BTEX	<0.300	0.300	08/17/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIC	108 9	6 73.6-14	0				- 1		
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16000	16.0	08/18/2016	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/17/2016	ND	189	94.3	200	7.74	
DRO >C10-C28	<10.0	10.0	08/17/2016	ND	198	98.9	200	7.06	
Surrogate: 1-Chlorooctane	94.2 %	6 35-147		_					
Surrogate: 1-Chlorooctadecane	104%	6 28-171							

Sample ID: AH-2 (2-2.5') (H601832-08)

Chloride, SM4500Cl-B mg/kg			Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15200	16.0	08/18/2016	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

PILADE NOTE: Liability and Demograe. Cardnul's bability and cleant's exclusive remoty for any clean arrang, whether based in consists or tort, shull be limited to the amount paid by clears, for analyses. All cleans, including those for negligence and any other cluse whatsoever shall be deemed waveld unless made in writing and received by Cardnal within there) (30) days after completion of the applicable service. In no event shall Cardnal be liable for incidental or consequential damages including, without limitation, beganises interruptions, loss of use, or loss of profits encurred by Cardnal with the services hereunder by Cardnal, regardless of whether sucl clean is based upon any of the above stated reasons or otherwise. Results related only to the services hereunder by Cardnal and the reproduced except in full with written approval of Cardnal Laboratories.

Celay D. Kenne

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

08/16/2016

Reported:

08/19/2016

Project Name: Project Number: SHOWSTOPPER 7 FED COM #1H

Project Location:

NONE GIVEN

EDDY COUNTY

Sampling Date:

Sampling Type:

Sampling Condition:

Soil Cool & Intact

Sample Received By:

Jodi Henson

08/15/2016

Sample ID: AH-2 (3-3.5') (H601832-09)

Chloride, SM4500Cl-B

Chloride

Analyzed By: AC

Analyte

Result 15200 Reporting Limit 16.0

Analyzed 08/18/2016 Method Blank ND

BS 400 % Recovery 100

True Value QC 400

RPD 0.00

Qualifier

Sample ID: AH-3 (0-1') (H601832-10)

BTEX 80218	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	08/17/2016	ND	2.32	116	2.00	1.22	
Toluene*	<0.050	0.050	08/17/2016	ND	2.37	119	2.00	1.57	
Ethylbenzene*	<0.050	0.050	08/17/2016	ND	2.29	114	2.00	1.73	
Total Xylenes*	<0.150	0.150	08/17/2016	ND	6.90	115	6.00	1.52	
Total BTEX	< 0.300	0.300	08/17/2016	ND					

Surrogate: 4-Bromofluorobenzene (PIE

Chloride, SM4500Cl-B	mg/kg		Analyzed By: AC				<u>. </u>		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	11200	16.0	08/18/2016	ND	400	100	400	0.00	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/17/2016	ND	189	94.3	200	7.74	
DRO >C10-C28	<10.0	10.0	08/17/2016	ND	198	98.9	200	7.06	

Surrogate: 1-Chlorooctane

87.2%

35-147

Surrogate: 1-Chlorooctadecane

94.4%

28-171

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*=Accredited Analyte

Celling Thomas

Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:

COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:

08/16/2016

Reported:

08/19/2016

Project Name:

SHOWSTOPPER 7 FED COM #1H

Project Number: Project Location:

NONE GIVEN
EDDY COUNTY

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: Soil

Cool & Intact

08/15/2016

Jodi Henson

Sample ID: AH-3 (1-1.5') (H601832-11)

STEX 8021B	mg/kg		Analyzed By: MS			Æ			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	08/17/2016	ND	2.32	116	2.00	1.22	
Toluene*	<0.050	0.050	08/17/2016	ND	2.37	119	2.00	1.57	
Ethylbenzene*	<0.050	0.050	08/17/2016	ND	2.29	114	2.00	1.73	
Total Xylenes*	<0.150	0.150	08/17/2016	DИ	6.90	115	6.00	1.52	
Total BTEX	<0.300	0.300	08/17/2016	ND					
Surrogate: 4-Bromofluorobenzene (PIE	109 5	% 73.6-14	0						_
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	15200	16.0	08/18/2016	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MS				_	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/17/2016	ND	189	94.3	200	7.74	
DRO >C10-C28	<10.0	10.0	08/17/2016	ND	198	98.9	200	7.06	
Surrogate: 1-Chlorooctane	92.4 9	% 35-147							
Surrogate: I-Chlorooctadecane	107 9	6 28-171							

Sample ID: AH-3 (2-2.5') (H601832-12)

Chloride, SM4500CI-B	4500Cl-B mg/kg			Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16400	16,0	08/18/2016	ND	400	100	400	0.00	

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Celley D. Kinne

Celey D. Keene, Lab Director/Quality Manager

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Analytical Results For:

COG OPERATING DAKOTA NEEL P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

08/16/2016

Reported:

08/19/2016

Project Name: Project Number: SHOWSTOPPER 7 FED COM #1H

Project Location:

NONE GIVEN

Sampling Date:

Sampling Type:

Sampling Condition: Sample Received By: Soil Cool & Intact

Jodi Henson

08/15/2016

EDDY COUNTY

Sample ID: AH-3 (3-3.5') (H601832-13)

Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	12800	16.0	08/18/2016	ND	400	100	400	0.00	

Sample ID: AH-4 BACKGROUND (0-1') (H601832-14)

Chloride, 5M4500Cl-B	mg/	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/18/2016	ND	400	100	400	0.00	

Sample ID: AH-4 BACKGROUND (1-1.5') (H601832-15)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/18/2016	ND	400	100	400	0.00	

Sample ID: AH-4 BACKGROUND (2-2.5') (H601832-16)

Chloride, SM4500CI-B	mg,	kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/18/2016	ND	400	100	400	0.00	

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ant pard by chart for analyses. All claims, including those for neglicompletion of the applicable service. In no event shall Cardinal be ors arrang out of or related to the partirmance of the services here

Celleg D. trong



Notes and Definitions

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

Cardinal Laboratories

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Celling D. Kenne

Celey D. Keene, Lab Director/Quality Manager

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CONTACT: STATE:	LABORATORY:	RELINDUSTRED BY: (Signature)	Agreem And Agree 1920 - Franklin street of	A rower	10 8 15	918	8118	7 8/15	5/18	5 8/11	18/18	21/8 82	2 8/15	1 8/15 5	NUMBER DATE TIME NATRIX	OKE-MI-0605	CLIENT NAME: COS	H601852				Analysis Re
PHONE ZIP: DATE		Tame: Hard		orlatio.	AH 3/0-1')	\$ 3-3.5'	(2-2.5'	11-1.5	AH2 (0-1)	14-4.5	(3-3.5'	(2-2.5'	(1-1.50)	X AH 1 (0-1)	COMP. GRAB	COG - Showshoper 7	SITE MANAGER:		Midland, Texas 79705 (432) 682-4559 • Fax (432) 682-3946	910 N. Big Spi	TOAT	Analysis Request of Chain of Custody Record
TIME	RECEIVED BY: (Signature)	HECEPYED BY (Signature)	D	Method Maryon	D. C.	5.)	<u>ت</u>	ै		7		3	٥	-	SAMPLE IDENTIFICATION		Choch Clarie		79705 × (432) 682-3946	ring St.	ם כו	n of Custody F
Æ:		Timec	Time:	5ti.th 200				×	XX		1	濉	×	×	FILTERED (HCL HNO3 ICE NONE BLEX 80218 JPH 8018	•	PRESERVATIVE	05 /		Casi	1	Record —
AND LOCK	That Mind	TETRA TECH CONTACT PERSON:		Adria Co											PAH 8270 RCRA Meta TCLP Meta TCLP Sorni RCI GC MS Vol. GC MS Serr PCB's 8080. Pest. 808/80	als Ag A als Ag A les Volatile 8240/8; ni, Vol. 8	s Ba C s Ba C	d Cr d Vr		So	(Circle or Specify Method No.)	ANALYSIS REQUEST
Authorized: No Yes No	RUSH Charges	Results by:	ARBILL 6:	Time: 6/10/16	\sqsubseteq										Garrina Spe Alpha Beta PLM (Asbes Major Anion	(Air) itos)	ns, pH,					OF: 7

TETRATECH 1910 N. Big Spring St. Midland, Texas 79705 (432) 682-4559 * Fax (432) 682-3946 STE MANAGER: MAH - 4 Sack grown (0-1) AH - 5 Inex A Time: A Time:			RELINOVISHED BY (Signature)	RELINOUISHED BY: (Signature)	odusi Don	Service and District and Distri	16 8/15	5/18	14 8/15	13 8 16	12 8/15	51/8 11	NUMBER DATE TIME TRIX	PROJECT NO COGOS P	CLIENT NAME: COL	H601832			Mayor
NONE	W N ZP	(a)	Dufe. Ture:		14:10				7	3-3.5	12-2.5'	-3 ()	COMP. GRAB	COU - Showshop 7 Fed	S EH		Midland, Texas 79705 (432) 682-4559 • Fax (432) 6	TETRA TECH	
NONE	TIME				serraor		7.5)	(1-1.5)	(0-1)	7	2	- V	NUMBER O FILTERED HCL	F CONT	AINERS		82-3946	I	
	7100 641		TETRA TECH CONTACT		12 12 12 12 12 12 12 12 12 12 12 12 12 1	SAMPLED BY, (Print &		~	~	×			RTEX 8021 TEM 801 PAH 8270 RCRA Met TCLP Vota TCLP Sem RCI GC MS Vo	als Ag als Ag tiles I Volatil	As Ba As Ba es	Cd Ct Cd Vr	Pb Hg	Se Se	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 S. St Francis Dr. **Santa Fe, NM 87505**

CONDITIONS

Action 162936

CONDITIONS

Operator:	OGRID:
COG OPERATING LLC	229137
600 W Illinois Ave	Action Number:
Midland, TX 79701	162936
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By	Condition	Condition Date
amaxwel	None	12/1/2022