Received by OCD: 4/12/2023 9:43:14 AM



[Dakota Neel] [HSE Coordinator]

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February 21, 2019

Bradford Billings Oil Conservation Division Santa Fe

Ryan Mann New Mexico State Land Office 2827 N. Dal Paso Suite 117 Hobbs, NM 88240

Re: Closure Letter

State S 19 #20 API: 30-015-32060 RP#: 2RP-3932 Unit Letter M Section 19, Township 17S, Range 29E Eddy County, NM

Mr. Billings/Mr. Mann,

COG Operating, LLC (COG) is pleased to submit for your consideration the following closure report for the State S 19 #20. This release occurred on October 6, 2016. Following the release an assessment of impacted soils was conducted and a work plan was submitted and subsequently approved by the NMOCD and NMSLO on April 4, 2018 and April 19, 2018 respectively.

BACKGROUND

The leak was discovered on October 6, 2016, and released approximately 0.5 bbls of oil and 7 bbls of produced water due a corroded steel flowline. Approximately 2 bbls of produced water was recovered. The release occurred in the pasture impacting an area measuring approximately 25'x 35' and migrated onto the lease road impacting an area measuring approximately 40' x 165'.

Remediation activities were conducted in accordance with the NMOCD/NMSLO approved workplan.

February 21, 2019

REMEDIAL ACTIONS

- The impacted area of T-1 was excavated to a total depth of four (4) feet BGS.
- All of the excavated material was hauled to an NMOCD approved solid waste disposal facility.
- The excavation was backfilled and contoured to match the surrounding terrain.
- The site will be reseeded with the NMSLO Loamy Seed Mixture.
- Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds.

CLOSURE REQUEST

COG Operating, LLC respectfully requests closure approval for State S 19 #20 (2RP-3932). Should you have any questions or concerns please do not hesitate to contact me.

Sincerely,

Satoh New

Dakota Neel HSE Coordinator

Enclosed:

Appendix I: Approved Workplan Appendix II: Initial C-141 (Copy) Appendix III: Final C-141



SITE INFORMATION

	R	eport Tvp	e: Work Pla	an 2	RP-3932		
General Site Info							
Site:		State S19 #2	0				
Company:		COG Operati					
Section, Townsh	ip and Range		Sec. 19	T 17S	R 29E		
County:	ip and Hange	Eddy County					
GPS:			32.816627º N			104.11	2893º W
Surface Owner:		State					
Mineral Owner:							
Directions:			ection of Lovingtor est onto lease roac				el north on CR 211 for ion (location).
Release Data:		•					
Date Released:		10/6/2016					
Type Release:		Oil & Produce	d Water				
Source of Contar	nination:	Flowline					
Fluid Released:		0.5 bbl oil & 7	bbl PW				
Fluids Recovered		0 bbl oil & 2 b	bl PW				
Official Commun	ication:						
Name:	Robert McNeil				Ike Tavarez		
Company:	COG Operating, LL	C			Tetra Tech		
Address:	One Concho Center	•			4000 N. Big	Spring	
	600 W. Illinois Ave.				Ste 401		
City:	Midland Texas, 797	01		Midland, Texas			
Phone number:	(432) 686-3023			(432) 687-8110			
Fax:	(432) 684-7137						
Email:	rmcneil@conchor	esources.com			Ike.Tavare	z@tetratec	h.com
Ranking Criteria							
Depth to Groundw	ater:		Ranking Score			Site Data	
<50 ft			20				
50-99 ft			10				
>100 ft.			0			125'-150'	
WellHead Protection	on:		Ranking Score			Site Data	
	00 ft., Private <200 ft		20				
Water Source >1,0	00 ft., Private >200 ft		0			0	
Surface Body of W	latar:		Ranking Score			Site Data	
<200 ft.			20				
200 ft - 1,000 ft.			10				
>1,000 ft.			0			0	
Tot	al Ranking Score:		0				
		Accepta	ble Soil RRAL (r	ng/kg)			

Acceptable Soil RRAL (mg/kg)						
Benzene	TPH					
10	50	5,000				



April 16, 2018

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

Re: Work Plan for the COG Operating LLC., State S19 #20, Unit M, Section 19, Township 17 South, Range 29 East, Eddy County, New Mexico. 2RP-3932.

Mr. Bratcher:

Tetra Tech, Inc. (Tetra Tech) was contacted by COG Operating LLC., (COG) to assess and evaluate a release that occurred at State S19 #20, Unit M, Section 19, Township 17 South, Range 29 East, Eddy County, New Mexico (Site). The spill site coordinates are N 32.816627°, W 104.112893°. The site location is shown on Figures 1 and 2.

Background

According to the State of New Mexico C-141 Initial Report, the leak was discovered on October 6, 2016, and released approximately 0.5 bbls of oil and 7 bbls of produced water due a corroded steel flowline. Approximately 2 bbls of produced water was recovered. The release occurred in the pasture impacting an area measuring approximately 25'x 35' and migrated onto the lease road impacting an area measuring approximately 40' x 165. The Initial C-141 Form is included in Appendix A.

Groundwater

No wells are listed within Section 19 in the New Mexico Office of the State Engineers database. According to the Chevron Texaco Groundwater Trend map, the average depth to groundwater in the area is between 125' and 150' below surface. The groundwater data is shown in Appendix B.

Regulatory

A risk-based evaluation was performed for the Site in accordance with the New Mexico Oil Conservation Division (NMOCD) Guidelines for Remediation of Leaks, Spills and Releases, dated August 13, 1993. The guidelines require a risk-based evaluation of the site to determine recommended remedial action levels (RRAL) for benzene, toluene,

 Tetra Tech

 4000 North Big Spring, Suite 401, Midland, TX 79705

 Tel
 432.682.4559
 Fax
 432.682.3946
 www.tetratech.com



ethylbenzene and xylene (collectively referred to as BTEX) and total petroleum hydrocarbons (TPH) in soil. The proposed RRAL for benzene was determined to be 10 parts per million (ppm) or milligrams per kilogram (mg/kg) and 50 ppm for total BTEX (sum of benzene, toluene, ethylbenzene, and xylene). Based upon the depth to groundwater, the proposed RRAL for TPH is 5,000 mg/kg.

Soil Assessment and Analytical Results

Trench Installation

On December 21, 2016, COG personnel were onsite to evaluate and sample the release area in the pasture. One (1) sample trench was installed to 14.0' below surface in order to evaluate the soils. Due to heavy traffic in the area and corresponding safety concerns, no samples were collected in the release area on the hard packed lease road. Selected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The sampling results are summarized in Table 1.

Referring to Table 1, the area of trench (T-1) showed elevated chloride concentrations in the shallow soils, with a chloride high of 3,040 mg/kg at 3.0' below surface. The chloride concentrations declined with depth to 32.0 mg/kg at 6.0' and 8.0' below surface. However, chloride concentrations spiked at 12.0' (720 mg/kg) and 14.0' (1,230 mg/kg) below surface, respectively. Additionally, the surface sample at trench (T-1) showed benzene, total BTEX, and TPH concentrations below the RRALs.

Based on the laboratory results, ASSI personnel were onsite on October 20, 2017, to install one (1) sample trench (T-1A) in the area of trench (T-1). Samples were collected at 10.0', 11.0' and 12.0' below surface in order to confirm the deeper chloride concentrations detected at trench (T-1). The samples were analyzed for chloride by EPA method 300.0. Copies of the laboratory analysis and chain-of-custody documentation are included in Appendix C. The sampling results are summarized in Table 1.

Referring to Table 1, the area of trench (T-1A) showed chloride concentrations of 559 mg/kg (10'), 470 mg/kg (11'), and 654 mg/kg (12'). The chloride impact was not vertically defined to below 600 mg/kg.

Borehole Installation

Based on the laboratory results, Tetra Tech personnel returned to the site on December 13, 2017, to install one borehole (BH-1) in the area of trench (T-1) to a total depth of 19'-20' below surface. Selected samples were analyzed for TPH analysis by EPA method 8015 modified, BTEX by EPA Method 8021B, and chloride by EPA method 300.0. Copies of laboratory analysis and chain-of-custody documentation are included in Appendix D. The borehole location is shown in Figure 3. The sampling results are summarized in Table 1.



Referring to Table 1, the area of borehole (BH-1) showed a chloride concentration of 40.2 mg/kg at 9-10', which further declined with depth and showed a bottom hole concentration of 14.2 mg/kg at 19'-20' below surface.

Work Plan

Based on the laboratory results, COG proposes to remove the chloride impacted soils as shown on Figure 4 and highlighted (green) on Table 1. The area of borehole (BH-1) will be excavated to approximately 3.0-4.0' below surface to remove the chloride impacted soils. Due to safety concerns and the heavy traffic, the area on the lease road will not be excavated. The excavated areas will be backfilled with clean material to surface grade. All of the excavated material will be transported offsite for proper disposal.

The proposed excavation depths may not be reached due to wall cave ins and safety concerns for onsite personnel. In addition, impacted soil around oil and gas equipment, structures or lines may not be feasible or practicable to be removed due to safely concerns for onsite personnel. As such, COG will excavate the impacted soils to the maximum extent practicable.

Revegetation Plan

The backfilled areas will be seeded in June 2018 in order to coincide with the rainy season in Southeastern New Mexico to aid in revegetation. Based on the soils at the site, the BLM seed mixture 2 (Sandy Sites) will be used for seeding and will be planted in the amount specified in the pounds pure live seed (PLS) per acre. The seed mixture will be spread by a drill equipped with a depth regulator or a hand-held broadcaster and raked. If a hand-held broadcaster is used for dispersal, the pounds pure live seed per acre will be doubled.

Site inspections will be performed to assess the revegetation progress and evaluate the site for the presence of primary or secondary noxious weeds. If noxious weeds are identified, the NMSLO will be contacted to determine an effective method for eradication. If the site does not show revegetation after one growing season, the area will be reseeded as appropriate. The BLM seed mixture details and corresponding pounds pure live seed per acre are included in Appendix C.



Conclusion

Upon completion, a final report detailing the remediation activities 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 at (432) 682-4559.

Respectfully submitted, TETRA TECH

Omealos

Clair Gonzales, Geologist I

Ike Tavarez, Senior Project Manager, P.G.

cc: Robert McNeill – COG Dakota Neel – COG Rebecca Haskell – COG Crystal Weaver - NMOCD Mark Naranjo - SLO

Figures



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Tables

Table 1 COG Operating LLC. State S 19 #20 Eddy County, New Mexico

	Sample	Sample	Soil	Status	١	PH (mg/k	g)	Benzene	Toluene	Ethlybenzene	Xylene	Total BTEX	Chloride
Sample ID	Date	Depth (ft)	In-Situ	Removed	GRO	DRO	Total	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
T-1	12/21/2016	Surface	Х		<10.0	<10.0	<10.0	<0.0500	0.0570	<0.0500	<0.150	<0.300	2,160
	"	1	Х		-	-	-	-	-	-	-	-	592
	"	2	Х		-	-	-	-	-	-	-	-	1,140
	"	3	Х		-	-	-	-	-	-	-	-	3,040
	"	4	Х		-	-	-	-	-	-	-	-	1,680
	"	6	Х		-	-	-	-	-	-	-	-	32.0
	"	8	Х		-	-	-	-	-	-	-	-	32.0
	"	10	Х		-	-	-	-	-	-	-	-	144
	"	12	Х		-	-	-	-	-	-	-	-	720
	"	14	Х		-	-	-	-	-	-	-	-	1,230
T-1A	10/20/2017	10	Х		-	-	-	-	-	-	-	-	559
	"	11	Х		-	-	-	-	-	-	-	-	470
	"	12	Х		-	-	-	-	-	-	-	-	654
BH-1	12/13/2017	9-10	Х		-	-	-	-	-	-	-	-	40.2
	"	14-15	Х		-	-	-	-	-	-	-	-	28.4
	"	19-20	Х		-	-	-	-	-	-	-	-	14.2

(-) Not Analyzed

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Photos

COG Operating LLC State S19 #20 Eddy County, New Mexico





View North – Area of BH-1



View North – Area of BH-1

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Appendix A

State of New Mexico **Energy Minerals and Natural Resources**

> Oil Conservation Division 1220 South St. Francis Dr.

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

Form C-141 Revised August 8, 2011

							rrective A		7	1.0.	
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Name of Co Address:			Operation	lland TX 79701		Telephone N	Jo		583-7443		
Facility Nat			E S 19 #0			Facility Typ			owline		
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Surface Ow	ner.	State			witer			I	API NO.	. 30-0	115-32000
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Unit Letter M	Section 19	Township 17S	Range 29E	Feet from the 990'	Nort	h/South Line South	Feet from the 330'	East/We We	1		County Eddy
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			1	Latitude 32.81:	55899	Longitu	ide 104.120399	5			
				NAT	'URI	E OF RELI					
Type of Rele		Oil & Produc	od Water			Volume of	Release: Oil & 7bbls of Pi	naduaad		Recovered	l: 2bbls of Produced
			eo water			0.50018 01	Water	louuced	0001		ater
Source of Re	lease:						lour of Occurrenc		Date an	d Hour of I	
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By Whom?					-	Date and H	lour:				
Was a Water	course Reac						lume Impacting t	he Watero	ourse.		
			Yes 🛛	No							
If a Waterco	urse was Imj	pacted, Descri	ibe Fully.*	t							
Describe Cau	use of Proble	em and Reme	dial Action	n Taken.*							
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Appendix B

Water Well Data Average Depth to Groundwater (ft) COG - State S19 #20 Eddy County, New Mexico

29 East

29 East

29 East

95 11

76 23

58

16 South

17 South

210 28

18 South

_	16 \$	South	1	28 Eas	t
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21 61	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	17 \$	South	28	8 East	
6	5	4	3	2 28	1
7	8	9	10	11	12
18	17	16	15	14 80	13
19 224	20	21	22 45 79	23	24
30	29	28	27	26	25
31	32	33	34	35 258	36

	18 Sc	outh	28	East	
6	5	4	3	2 55	1
		108			
7	8 <mark>81</mark>	9	10	11	12
49	69				
18	17	16	15 <mark>80</mark>	14	13
19	20	21	22	23	24
		226			
30 137	29	28	27	26	25
31	32	33	34	35	36
				65	

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14 220 dry	13
19 <mark>110</mark>	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

-	16 So	outh	30	East	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	17 Sc	outh	30	East	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20 <mark>80</mark>	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

	18 Sc	outh	30	East	
6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23 44	24
30	29	28	27	26	25
31	32	33	34	35	36

88 New Mexico State Engineers Well Reports

- USGS Well Reports
- Geology and Groundwater Conditions in Southern Lea, County, NM (Report 6)
 Geology and Groundwater Resources of Eddy County, NM (Report 3)
- NMOCD Groundwater Data
- 123 Tetra Tech installed temporary wells and field water level
- 143 NMOCD Groundwater map well location

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)	(R=POD replaced, O=orphar C=the file	ned,	(qu					E 3=SW	,				
6	closed)	DOF	(qu	arters	are	small	est to l	argest)	(NAD8	3 UTM in mete	ers)	(In feet)	
POD Number	Code	POD Sub- basin	County	Q Q 64 1			Tws	Rng	X	Y	DepthWellI	V DepthWater Co	Vater olumn
<u>RA 11807 POD1</u>			ED	1 2	3	22	17S	29E	587360	3631585	131	76	5
										Average Depth	n to Water:	76 fee	t
										Minin	num Depth:	76 fee	t
										Maxim	um Depth:	76 fee	t
Record Count: 1													
PLSS Search:													
Township: 17S	Range:	29E											

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Appendix C

Eddy Area, New Mexico

SG—Simona gravelly fine sandy loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 1w5w Elevation: 2,750 to 5,000 feet Mean annual precipitation: 8 to 16 inches Mean annual air temperature: 57 to 70 degrees F Frost-free period: 180 to 230 days Farmland classification: Not prime farmland

Map Unit Composition

Simona and similar soils: 95 percent Minor components: 1 percent Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Simona

Setting

Landform: Alluvial fans, plains Landform position (three-dimensional): Rise Down-slope shape: Linear, convex Across-slope shape: Linear Parent material: Mixed alluvium and/or eolian sands

Typical profile

H1 - 0 to 19 inches: gravelly fine sandy loam *H2 - 19 to 23 inches:* indurated

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 7 to 20 inches to petrocalcic
Natural drainage class: Well drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 15 percent
Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 1.0
Available water storage in profile: Very low (about 2.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified Land capability classification (nonirrigated): 7e Hydrologic Soil Group: D Ecological site: Shallow Sandy (R042XC002NM) Hydric soil rating: No

Minor Components

Playa

Percent of map unit: 1 percent Landform: Playas Landform position (three-dimensional): Talf Down-slope shape: Concave, convex Across-slope shape: Concave, linear Ecological site: Bottomland (R042XC017NM) Hydric soil rating: Yes

Simona

Percent of map unit: Ecological site: Shallow Sandy (R042XC002NM) Hydric soil rating: No

Data Source Information

Soil Survey Area: Eddy Area, New Mexico Survey Area Data: Version 13, Sep 9, 2017



LOAMY (L) SITES SEED MIXTURE:

COMMON NAME	VARIETY	APPLICATION RATE (PLS/Acre)	DRILL BOX	
Grasses:				
Black grama	VNS, Southern	1.0	D	
Blue grama	Lovington	1.0	Ď	
Sideoats grama	Vaughn, El Reno	4.0	F	
Sand dropseed	VNS, Southern	2.0	ŝ	
Alkali sacaton	VNS, Southern	1.0	~	
Little bluestem	Cimarron, Pastura	1.5	F	
Forbs:				
Firewheel (Gaillardia)	VNS, Southern	1.0	D	
Shrubs:				
Fourwing saltbush	Marana, Santa Rita	1.0	Ð	
Common winterfat	The second se			
Common winterlat	VNS, Southern	0.5	F	
	Total PLS/acre	18.0		

S = Small seed drill box, D = Standard seed drill box, F = Fluffy seed drill box VNS = Variety Not Stated, PLS = Pure Live Seed

- Seed mixes should be provided in bags separating seed types into the three categories: small (S), standard (D) and fluffy (F).
- VNS, Southern Seed should be from a southern latitude collection of this species.
- Double seed application rate for broadcast or hydroseeding.
- If one species is not available, contact the SLO for an approved substitute; alternatively the SLO may require other species proportionately increased.
- Additional information on these seed species can be found on the USDA Plants Database website at http://plants.usda.gov.



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Appendix D



January 05, 2017

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: STATE 19 #20

Enclosed are the results of analyses for samples received by the laboratory on 12/29/16 12:05.

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



Analytical Results For:

		COG OPER DAKOTA N P. O. BOX ARTESIA N Fax To:	IEEL 1630		
Received:	12/29/2016			Sampling Date:	12/21/2016
Reported:	01/05/2017			Sampling Type:	Soil
Project Name:	STATE 19 #20			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN				

Sample ID: T1 - SURFACE (H602893-01)

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	12/30/2016	ND	1.82	91.1	2.00	2.19	
Toluene*	0.057	0.050	12/30/2016	ND	1.85	92.3	2.00	2.27	
Ethylbenzene*	<0.050	0.050	12/30/2016	ND	1.90	95.0	2.00	2.67	
Total Xylenes*	<0.150	0.150	12/30/2016	ND	5.54	92.3	6.00	2.61	
Total BTEX	<0.300	0.300	12/30/2016	ND					
Surrogate: 4-Bromofluorobenzene (PID	100 %	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	2160	16.0	01/03/2017	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	Qualifie
GRO C6-C10	<10.0	10.0	12/30/2016	ND	184	92.0	200	3.90	
DRO >C10-C28	<10.0	10.0	12/30/2016	ND	190	95.0	200	1.29	
Surrogate: 1-Chlorooctane	101 %	6 35-147	7						
		6 28-171							

Sample ID: T1 - 1' (H602893-02)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	01/03/2017	ND	400	100	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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Celez D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		COG OPERA DAKOTA NE P. O. BOX 1 ARTESIA NI Fax To:	EL .630		
Received:	12/29/2016			Sampling Date:	12/21/2016
Reported:	01/05/2017			Sampling Type:	Soil
Project Name:	STATE 19 #20			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN				

Sample ID: T1 - 2' (H602893-03)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1140	16.0	01/03/2017	ND	400	100	400	0.00	

Sample ID: T1 - 3' (H602893-04)

Chloride, SM4500Cl-B	mg	/kg	Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3040	16.0	01/03/2017	ND	400	100	400	0.00	

Sample ID: T1 - 4' (H602893-05)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1680	16.0	01/03/2017	ND	400	100	400	0.00	

Sample ID: T1 - 6' (H602893-06)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/03/2017	ND	400	100	400	0.00	

Sample ID: T1 - 8' (H602893-07)

Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	01/03/2017	ND	400	100	400	0.00	

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Celeg D. Keine

Celey D. Keene, Lab Director/Quality Manager



Analytical Results For:

		COG OPER DAKOTA N P. O. BOX ARTESIA N Fax To:	EEL 1630		
Received:	12/29/2016			Sampling Date:	12/21/2016
Reported:	01/05/2017			Sampling Type:	Soil
Project Name:	STATE 19 #20			Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN			Sample Received By:	Angela Cabrera
Project Location:	NOT GIVEN				

Sample ID: T1 - 10' (H602893-08)

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	01/03/2017	ND	400	100	400	0.00	

Sample ID: T1 - 12' (H602893-09)

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	720	16.0	01/03/2017	ND	416	104	400	0.00	

Sample ID: T1 - 14' (H602893-10)

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1230	16.0	01/03/2017	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager



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

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Celey D. Keene, Lab Director/Quality Manager

	Dolivorad D		Relinquished By: Date:		Relinquished By: Date:	sprice. In no event shall Cardinal be liable for incidental or consequential damages, including without limitation, business made in writing and received by Cardinal within 30 days after completion of the application or the application or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether services of whether services of use, or loss of profits incurred by client, its subsidiaries, Bolinari is consequented by Cardinal, regardless of whether services of whether services of the performance of services hereunder by Cardinal, regardless of whether services of the performance of services hereunder by Cardinal, regardless of whether services of the services of the services of the services hereunder by Cardinal, regardless of whether services of the	PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for a analyses. All claims including those for negligence and any other cause whatsoever chail he	10 T1 - 14'	- 11	•	T1 -	л: -	п.	•	11 -	. 11	T1 - SURFACE	Lab I.D. Sample I.D.		FOR LAB USE ONLY	2	Project Name: STATE 19 #20			Phone #: 432-215-2783 Fav #:		Address: 2208 West Main	Project Manager: Dakota Neel	Company Name: COG Operating LLC	101 East Marland Unklos Mill
5 10 Cool Intact		Received By:	1 Marcal		Received By:	werned walved unless made in writing and re without limitation, business interruptions, loss ardinal, regardless of whether such claim in th	lusive remedy for any claim arising whether based in contract or I has been and unit of the second											(G)RAB OR (C)OMF # CONTAINERS GROUNDWATER WASTEWATER SOIL DIL SLUDGE	MATRIX				Ier:		ZIP 88210				58240 -2476	
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Please only run de				Phone Result: Fax Result:		er completion of the applicable client, its subsidiaries,	9:00 AM	9:00 AM	9:00 AM	9:00 AM	9:00 AM	9:00 AM	5 9:00 AM	6 9:00 AM	6 9:00 AM	6 9:00 AM x			SAMPLING		388	9701	and	600 W Illinois	Robert McNeill	COG Operating LLC		0		
eper horizons fo exceeds 50pp	rgru	dne		□ Yes □ No			×	×	×	×	×	×	×	×	×	××	TF	PH												
Please only run deeper horizons for BTEX AND TPH if Benzene exceeds 10ppm, BTEX	rgrubbs@concho.com	dneel2@concho.com	· · · · · · · · · · · · · · · · · · ·	Add'I Phone #: Add'I Fax #:																								ANALYSIS REQUEST		CITAIN-UF-CUSIODY AND ANALYSIS REQUEST

D F

Analytical Report 571335

for Tetra Tech- Midland

Project Manager: Ike Tavarez

State S19 # 20

212C-MD-00958.28

22-DEC-17

Collected By: Client





1211 W. Florida Ave, Midland TX 79701

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-17-23), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2017-142)

> Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-17-15), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab code: TX00127): Texas (T104704221-17-12) Xenco-Lubbock (EPA Lab code: TX00139): Texas (T104704219-17-16) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-17-13) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-17-3) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)





22-DEC-17

Project Manager: **Ike Tavarez Tetra Tech- Midland** 4000 N. Big Spring Suite 401 Midland, TX 79705

Reference: XENCO Report No(s): **571335 State S19 # 20** Project Address: Eddy Co, NM

Ike Tavarez:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 571335. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. The uncertainty of measurement associated with the results of analysis reported is available upon request. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 571335 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Huns hoah

Kelsey Brooks Project Manager

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Houston - Dallas - Midland - San Antonio - Phoenix - Oklahoma - Latin America





Sample Cross Reference 571335



Tetra Tech- Midland, Midland, TX

State S19 # 20

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
BH-1 9-10	S	12-13-17 00:00		571335-005
BH-1 14-15	S	12-13-17 00:00		571335-006
BH-1 19-20	S	12-13-17 00:00		571335-007
BH-1 0-1	S	12-13-17 00:00		Not Analyzed
BH-1 2-3	S	12-13-17 00:00		Not Analyzed
BH-1 4-5	S	12-13-17 00:00		Not Analyzed
BH-1 6-7	S	12-13-17 00:00		Not Analyzed


CASE NARRATIVE

Client Name: Tetra Tech- Midland Project Name: State S19 # 20

 Project ID:
 212C-MD-00958.28

 Work Order Number(s):
 571335

BORATORIES

 Report Date:
 22-DEC-17

 Date Received:
 12/15/2017

Sample receipt non conformances and comments:

Sample receipt non conformances and comments per sample:

None



Certificate of Analysis Summary 571335

Tetra Tech- Midland, Midland, TX Project Name: State S19 # 20



Project Id:212C-MD-00958.28Contact:Ike TavarezProject Location:Eddy Co, NM

Date Received in Lab:Fri Dec-15-17 01:00 pmReport Date:22-DEC-17Project Manager:Kelsey Brooks

	Lab Id:	571335-0	005	571335-0	06	571335-0	07			
Analysis Requested	Field Id:	BH-1 9-	10	BH-1 14-	15	BH-1 19-1	20			
Analysis Kequestea	Depth:									
	Matrix:	SOIL		SOIL		SOIL				
	Sampled:	Dec-13-17	00:00	Dec-13-17 (00:00	Dec-13-17 0	0:00			
Inorganic Anions by EPA 300/300.1	Extracted:	Dec-20-17	08:30	Dec-20-17 1	1:20	Dec-20-17 1	1:20			
	Analyzed:	Dec-20-17	14:04	Dec-20-17 1	4:46	Dec-20-17 1	5:07			
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL			
Chloride		40.2	4.97	28.4	4.90	14.2	4.98			

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Huns Boah

Kelsey Brooks Project Manager



LABORATORIES

Flagging Criteria



Page 39 of 49

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- **K** Sample analyzed outside of recommended hold time.
- **JN** A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- ** Surrogate recovered outside laboratory control limit.
- **BRL** Below Reporting Limit.
- RL Reporting Limit
- MDL Method Detection LimitSDL Sample Detection LimitLOD Limit of DetectionPQL Practical Quantitation LimitMQL Method Quantitation LimitLOQ Limit of Quantitation
- **DL** Method Detection Limit
- NC Non-Calculable
- + NELAC certification not offered for this compound.
- * (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation

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Houston - Dallas - San Antonio - Atlanta - Midland/Odessa - Tampa/Lakeland - Phoenix - Latin America

Phone Fa	ix.
4147 Greenbriar Dr, Stafford, TX 77477 (281) 240-4200 (281) 24	0-4280
9701 Harry Hines Blvd , Dallas, TX 75220 (214) 902 0300 (214) 35	1-9139
5332 Blackberry Drive, San Antonio TX 78238 (210) 509-3334 (210) 50)9-3335
1211 W Florida Ave, Midland, TX 79701 (432) 563-1800 (432) 56	53-1713
2525 W. Huntington Dr Suite 102, Tempe AZ 85282 (602) 437-0330	



BS / BSD Recoveries



Project Name: State S19 # 20

Work Order #: 571335							Pro	ject ID:	212C-MD-(00958.28	
Analyst: LRI	D	ate Prepar	ed: 12/20/202	17			Date A	nalyzed:	12/20/2017		
Lab Batch ID: 3036429 Sample: 763627	7-1-BKS	Batch	n#: 1					Matrix: S	Solid		
Units: mg/kg		BLAN	K/BLANK	SPIKE /]	BLANK S	SPIKE DUP	LICATE	RECOV	ERY STUI	ЭY	
Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<5.00	250	259	104	250	262	105	1	90-110	20	
Analyst: LRI	D	ate Prepar	ed: 12/20/202	17			Date A	nalyzed:	12/20/2017		
Lab Batch ID: 3036587 Sample: 763629	2-1-BKS	Batch	n#: 1					Matrix: S	Solid		
Units: mg/kg		BLAN	K/BLANK	SPIKE /]	BLANK	SPIKE DUP	LICATE	RECOV	ERY STUI	ЭY	
Inorganic Anions by EPA 300/300.1 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<5.00	250	267	107	250	264	106	1	90-110	20	

Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Blank Spike Recovery [D] = $100^{*}(C)/[B]$ Blank Spike Duplicate Recovery [G] = $100^{*}(F)/[E]$ All results are based on MDL and Validated for QC Purposes



Form 3 - MS / MSD Recoveries



Project Name: State S19 # 20

Work Order # :	571335						Project II): 212C-1	MD-0095	8.28		
Lab Batch ID:	3036429	QC- Sample ID:	571265	-001 S	Ba	tch #:	1 Matrix	: Soil				
Date Analyzed:	12/20/2017	Date Prepared:	12/20/2	017	An	alyst: I	LRI					
Reporting Units:	mg/kg		Μ	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
Inorgai	nic Anions by EPA 300/300.1	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	Spiked Dup.	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride		232	248	485	102	248	484	102	0	90-110	20	
Lab Batch ID:	3036429	QC- Sample ID:	571663	-001 S	Ba	tch #:	1 Matrix	: Soil				
Date Analyzed:	12/20/2017	Date Prepared:	12/20/2	017	An	alyst: I	RI					
Reporting Units:	mg/kg	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
Inorgai	nic Anions by EPA 300/300.1	Parent Sample Result	Spike Added	Spiked Sample Result [C]	Spiked Sample %R	Spike Added	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Analytes	[A]	[B]	[0]	[D]	[E]	itesuit [i]	[G]				
Chloride		1010	250	1230	88	250	1240	92	1	90-110	20	Х
Lab Batch ID:	3036587	QC- Sample ID:	571335	-006 S	Ba	tch #:	1 Matrix	: Soil				
Date Analyzed:	12/20/2017	Date Prepared:	12/20/2	017	An	alyst: I	RI					
Reporting Units:	mg/kg		Μ	IATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERY	STUDY		
Inorgai	nic Anions by EPA 300/300.1	Parent Sample Result	Spike Added	Spiked Sample Result	Spiked Sample %R	Spike	Duplicate Spiked Sample Result [F]	Spiked Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
	Analytes	[A]	Added [B]	[C]	%K [D]	Added [E]	Kesutt [F]	%K [G]	70	70K	70KrD	
Chloride		28.4	245	295	109	245	289	106	2	90-110	20	

Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

Page 8 of 11



Form 3 - MS / MSD Recoveries



Project Name: State S19 # 20

Work Order # :	571335						Project II	D: 212C-N	MD-00958	3.28		
Lab Batch ID:	3036587	QC- Sample ID:	571336	-010 S	Ba	tch #:	1 Matri	x: Soil				
Date Analyzed:	12/20/2017	Date Prepared:	12/20/2	017	Ar	alyst: I	RI					
Reporting Units:	mg/kg		Μ	ATRIX SPIK	E / MAT	RIX SPI	KE DUPLICA	TE REC	OVERYS	STUDY		
Inorgai	nic Anions by EPA 300/300.1	Parent Sample	Spike	Spiked Sample Result	Sample	Spike	Duplicate Spiked Sample	-	RPD	Control Limits	Control Limits	Flag
	Analytes	Result [A]	Added [B]	[C]	%R [D]	Added [E]	Result [F]	%R [G]	%	%R	%RPD	
Chloride		1200	248	1400	81	248	1390	77	1	90-110	20	Х

Matrix Spike Percent Recovery $[D] = 100^{*}(C-A)/B$ Relative Percent Difference RPD = $200^{*}|(C-F)/(C+F)|$ Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable N = See Narrative, EQL = Estimated Quantitation Limit, NC = Non Calculable - Sample amount is > 4 times the amount spiked.

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Page 43 of 49

Received by OCD: 4/12/2023 9:43:14 AM



XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: Tetra Tech- Midland	Acceptable Temperature Range: 0 - 6 degC
Date/ Time Received: 12/15/2017 01:00:00 PM	
Work Order #: 571335	Temperature Measuring device used : R8
Sa	mple Receipt Checklist Comments
#1 *Temperature of cooler(s)?	.1
#2 *Shipping container in good condition?	Yes
#3 *Samples received on ice?	Yes
#4 *Custody Seals intact on shipping container.	cooler? N/A
#5 Custody Seals intact on sample bottles?	Ν/Α
#6*Custody Seals Signed and dated?	Ν/Α
#7 *Chain of Custody present?	Yes
#8 Any missing/extra samples?	No
#9 Chain of Custody signed when relinquished/	received? Yes
#10 Chain of Custody agrees with sample labe	s/matrix? Yes
#11 Container label(s) legible and intact?	Yes
#12 Samples in proper container/ bottle?	Yes
#13 Samples properly preserved?	Yes
#14 Sample container(s) intact?	Yes
#15 Sufficient sample amount for indicated test	s)? Yes
#16 All samples received within hold time?	Yes

#17 Subcontract of sample(s)?

#18 Water VOC samples have zero headspace?

* Must be completed for after-hours delivery of samples prior to placing in the refrigerator

Analyst:

PH Device/Lot#:

Date: 12/15/2017

No

N/A

Checklist completed by: Connie Hernandez Checklist reviewed by: Kelsey Brooks

Date: 12/20/2017



State of New Mexico **Energy Minerals and Natural Resources**

> Oil Conservation Division 1220 South St. Francis Dr.

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

Form C-141 Revised August 8, 2011

					(OPERA	ΓOR	Þ	Initia	l Report	🔲 Final Repo
Name of Co	ompany:	COO	G Operati	ng LLC		Contact:		Robe	rt McNe		
Address:				iland TX 79701					683-7443		
Facility Name: STATE S 19 #020						acility Typ	e:	Flo	owline		
Surface Ow	mer:	State		Mineral C	Owner:				API No.	. 30-0	15-32060
				LOCA	TION	OF RE	LEASE				
Unit Letter M	Section 19	Township 17S	Range 29E	Feet from the 990'		South Line	Feet from the 330'	East/We We	. 1		County Eddy
				Latitude 32.81		5	ude 104.120399	5			
Tomo of Dala				NAT	URE	OF REL			17-1	Recovered	1.
Type of Rele	ase:	Oil & Produc	ed Water				Oil & 7bbls of P	roduced		s of Oil & 2	bbls of Produced
Source of Re	lease:					Date and F	Water lour of Occurrence	<u>م</u>	Date an	d Hour of I	ater Discovery:
		Flowl	ine				06-2016 09:00 a		Date an		6 09:00 am
Was Immedi	ate Notice C		Yes 🛛	No 🛛 Not R	equired	If YES, To	Whom?				
By Whom?		1 10				Date and H					
Was a Water	course Read		Yes 🛛] No		II YES, VO	olume Impacting	the Waterc	ourse.		
If a Wataraa			iba Kullu i								
	use of Probl	em and Reme	dial Actio	n Taken.*							
Describe Ca	use of Probl A stee	em and Reme el flowline co	dial Actio	n Taken.* e to age. Placed a	clap on th	he damaged	area until the line	can be rep	blaced wit	th a polylin	e
Describe Ar	use of Probl A ster ca Affected use occurred	em and Reme el flowline co and Cleanup /	dial Actio rroded due Action Tal sture, alor	n Taken.* e to age. Placed a ken.* ngside the road. C	oncho wi	ill have the s		o delineat	e any pos	sible contai	nination from the
Describe Ca Describe Ar This relea I hereby cert regulations a public healt should their or the enviro	use of Probl A ster ea Affected use occurred release a ify that the ill operators or the envi operations h	em and Reme el flowline co and Cleanup A l within the pa and we will pr information g are required to ronment. The tave failed to	dial Actio rroded due Action Tal sture, alor esent a rer iven above o report ar e acceptanc adequately DCD accep	n Taken.* e to age. Placed a cen.* ogside the road. C nediation work pl e is true and comp nd/or file certain to ce of a C-141 report investigate and r	oncho wi lan to the plete to the release no ort by the remediate	Il have the s NMOCD fo e best of my ptifications a NMOCD m contaminat	pill site sampled to or approval prior to whowledge and u nd perform correct parked as "Final R	to delineate o any sign inderstand tive action eport" doe reat to grou	e any pos ificant rer that purs to for rele s not reli ind water	sible contai mediation v uant to NM eases which eve the ope	nination from the york. OCD rules and may endanger rator of liability ater, human health
Describe Ca Describe Ar This relea I hereby cert regulations a public healt should their or the enviro	use of Probl A ster ea Affected use occurred release a ify that the ill operators or the envi operations h	em and Reme el flowline co and Cleanup / l within the pa und we will pr information g are required t ronment. The nave failed to addition, NMC ws and/or reg	dial Actio rroded due Action Tal sture, alor esent a rer iven above o report ar e acceptanc adequately DCD accep	n Taken.* e to age. Placed a cen.* ogside the road. C nediation work pl e is true and comp nd/or file certain to ce of a C-141 report investigate and r	oncho wi lan to the plete to the release no ort by the remediate	Il have the s NMOCD fo e best of my ptifications a NMOCD m contaminat	pill site sampled to or approval prior to knowledge and u nd perform correct parked as "Final R ion that pose a thr	o delineate o any sign inderstand ctive action eport" doe reat to grou responsibi	e any pos ificant rer that purs to for rele s not reli ind water lity for co	sible contain mediation v uant to NM eases which eve the ope the ope surface we compliance v	nination from the york. OCD rules and may endanger rator of liability ater, human health with any other
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Describe Ca Describe Art This relea I hereby cert regulations a public healtt should their or the enviro federal, state Signature:	use of Probl A stee ea Affected use occurred release a ify that the ill operators or the envi operations h onent. In a e, or local lat	em and Reme el flowline co and Cleanup A l within the pa und we will pr information g are required to ronment. The nave failed to addition, NMC ws and/or reg	dial Actio rroded due Action Tal sture, alor esent a rer iven above o report an e acceptance adequately DCD accept ulations.	n Taken.* e to age. Placed a cen.* agside the road. C nediation work pl e is true and comp nd/or file certain n ce of a C-141 report v investigate and r otance of a C-141	ioncho wi lan to the plete to the release no ort by the remediate report do	Il have the s NMOCD for e best of my otifications a NMOCD m contaminations bes not reliev	pill site sampled to or approval prior to or knowledge and u nd perform correct narked as "Final R ion that pose a thr or the operator of <u>OIL CON</u>	to delineate o any signi- inderstand ctive action reat to grou responsibi SERVA pecialist:	e any pos ificant rer that purs to for rele s not reli ind water lity for co	sible contain mediation v uant to NM eases which eve the ope surface wa ompliance v DIVISIC	nination from the york. OCD rules and may endanger rator of liability ater, human health with any other

APPENDIX III

State of New Mexico Energy Minerals and Natural Resources

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

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Form C-141 Revised August 8, 2011

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

Release Notification and Corrective Action

			OPERATOR	Initial Report	Final Report
Name of Company:	COG Operating	LLC	Contact:	Robert McNeill	
Address: 600 Wes	st Illinois Avenue, Midlan	d TX 79701	Telephone No.	432-683-7443	
Facility Name:	STATE S 19 #020		Facility Type:	Flowline	
		1			
Surface Owner:	State	Mineral Owner	r:	API No. 30	-015-32060

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
М	19	17S	29E	990'	South	330'	West	Eddy

Latitude 32.8155899

Longitude 104.1203995

NATURE OF RELEASE

Type of Release: Oil & Produced Water	Volume of Release: 0.5bbls of Oil & 7bbls of Produce		Recovered: of Oil & 2bbls of Produced
	Water		Water
Source of Release:	Date and Hour of Occurrence:	Date and	d Hour of Discovery:
Flowline	10-06-2016 09:00 am		10-06-2016 09:00 am
Was Immediate Notice Given?	If YES, To Whom?		
🗌 Yes 🛛 No 🖾 Not Required			
By Whom?	Date and Hour:		
Was a Watercourse Reached?	If YES, Volume Impacting the Wa	tercourse.	
\Box Yes \boxtimes No			
If a Watercourse was Impacted, Describe Fully.*	1		
Describe Cause of Problem and Remedial Action Taken.*			
A steel flowline corroded due to age. A clamp was placed on the damage	d area until the line can be replaced wi	th a polyline.	
Describe Area Affected and Cleanup Action Taken.*			
Describe Area Arrected and Creanup Action Taken.			
This release occurred within the pasture, alongside the road. Following the	ne release an assessment of impacted s	oils was cond	ucted and a work plan was
submitted and subsequently approved by the NMOCD and NMSLO on A		tively. Reme	diation activities were
conducted in accordance with the NMOCD/NMSLO approved workplan.			
		1.1 .	
I hereby certify that the information given above is true and complete to t regulations all operators are required to report and/or file certain release r			
public health or the environment. The acceptance of a C-141 report by th			
should their operations have failed to adequately investigate and remediat			
or the environment. In addition, NMOCD acceptance of a C-141 report of			
federal, state, or local laws and/or regulations.	I I I I I I I I I I I I I I I I I I I		r a transferra
	OIL CONSERV	ATION I	DIVISION
N / L O			
Sabot New			
Signature:	Approved by Environmental Speciali	st:	Par Madana DA
Drinted Newsy Delecter News		XYAA	ley Maxwell
Printed Name: Dakota Neel			0
Title: HSE Coordinator	Approval Date: 5/8/2023	Expiration D	Date:
	FT 2000 - DOL - DO		
E-mail Address: <u>dneel2@concho.com</u>	Conditions of Approval:		Attached
			Attached
Date: February 21, 2019 Phone: 575-746-2010			

* Attach Additional Sheets If Necessary

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

District IV 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

Operator:	OGRID:
Spur Energy Partners LLC	328947
9655 Katy Freeway	Action Number:
Houston, TX 77024	206721
	Action Type:
	[IM-SD] Incident File Support Doc (ENV) (IM-BNF)

CONDITIONS

Created By		Condition Date
amaxwell	None	5/8/2023

CONDITIONS

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