

APPROVED

By Olivia Yu at 10:44 am, Feb 26, 2018



NMOCD approves
1RP-4149 for closure.

Remediation Summary & Closure Request

Property:
Concho Operating, LLC.
Azores Federal #002H
Lea County, New Mexico
Unit Letter "O", Section 29, Township 24 South, Range 32 East
Latitude 32.1816673, Longitude -103.6935196
1RP-4149

September 2017

Prepared for:

Concho Operating, LLC.
600 West Illinois Avenue
Midland, TX 79701
Attn: **Mrs. Rebecca Haskell**

Prepared by:

Ryan Reich
Environmental Project Manager

Thomas Franklin
Environmental Manger

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Remediation Summary & Closure Request

**Concho Operating, LLC.
Azores Federal #002H
Lea County, New Mexico
Unit Letter "O", Section 29, Township 24 South, Range 32 East
Latitude 32.1816673, Longitude -103.6935196
1RP-4149**

September 2017

1.0 INTRODUCTION

1.1 Site Description & Background

American Safety Services Inc. (ASSI) has prepared this Remediation Summary and Closure Request for the Concho Operating, LLC. (COG) Azores Federal #002H. This Closure request is based upon the interpretation of the data collected by COG and ASSI.

The Azores Federal #002H (referred to hereinafter as the "Site" or "subject Site") is located in Unit Letter "O", Section 29, Township 24 South, Range 32 East, Lea County, New Mexico (GPS 32.1816673N, -103.6935196W).

Remedial actions were conducted by ASSI in accordance with New Mexico Energy, Minerals, and Natural Resources Department (EMNRD), Oil Conservation Division (NMOCD) rules (*NMAC 19.15.29 Release Notification*) and the NMOCD *Guidelines for Remediation of Leaks, Spills and Releases* as guidance.

1.2 Project Objective

The objective of the Closure Request is to present documentation of the activities that were performed to date and to request an effective means to close the Site.

1.3 Standard of Care

ASSI's services are performed in accordance with standards provided by a firm rendering the same or similar services in the area during the same time period. ASSI makes no warranties, express or implied, as to the services performed hereunder. Additionally, ASSI does not warranty the work of third parties supplying information used in the report (e.g. laboratories, regulatory agencies, or other third parties). This scope of services will be performed in accordance with the scope of work agreed with the client.

1.4 Reliance

This report has been prepared for the exclusive use of COG, and any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the Site) is prohibited without the express written authorization of COG and ASSI. Any unauthorized distribution or reuse is at the sole risk of COG. Notwithstanding the foregoing, reliance by authorized parties will be subject to the terms, conditions and limitations stated in the proposal, the report, and ASSI's Agreement. The limitation of liability defined in the agreement is the aggregate limit of ASSI's liability to the client.

2.0 SITE RANKING & PROPOSED REMEDIAL ACTION GOALS

The Site is subject to regulatory oversight by the NMOCD. To address activities related to releases, the NMOCD utilizes the *Guidelines for Remediation of Leaks, Spills and Releases* as guidance, in addition to the NMOCD rules, specifically NMAC 19.15.29 *Release Notification*. These documents establish investigation and abatement action requirements for sites subject to reporting and/or corrective action.

In accordance with the NMOCD's *Guidelines for Remediation of Leaks, Spills and Releases*, ASSI utilized the general site characteristics to determine the appropriate "ranking" for the Site. The ranking criteria and associated scoring are provided in the table below:

Ranking Criteria			Ranking Score
Depth to Groundwater	<50 feet	20	0
	50 to 99 feet	10	
	>100 feet	0	
Wellhead Protection Area, <1,000 feet from a water source, or; <200 feet from private domestic water source.	Yes	20	0
	No	0	
Distance to Surface Water Body	<200 feet	20	0
	200 to 1,000 feet	10	
	>1,000 feet	0	
Total Ranking Score			0

Based on ASSI's evaluation of the scoring criteria, the Site would have a Total Ranking Score of 0. This ranking is based on the following:

- The depth to the initial groundwater-bearing zone is greater than 150 feet at the Site.
- The impacted area is greater than 200 feet from a private domestic water source.
- Distance to the nearest surface water body is greater than 1,000 ft.

Based on a Total Ranking Score of 0, cleanup goals for soils remaining in place include: 10 milligrams per kilogram (mg/Kg) for Benzene, 50 mg/Kg for Total Benzene, Toluene, Ethylbenzene, and Xylene (BTEX), 5,000 mg/Kg for Total Petroleum Hydrocarbons (TPH), and 600 mg/Kg for Chloride.

Figures 1 and 2 show the location of the Site in Lea County, New Mexico and surrounding topography.

2.1 Groundwater Research

According to research conducted on the New Mexico Office of the State Engineer (NMOSE) groundwater database, no registered water wells were located in section 29. According to ChevronTexaco Groundwater Trend Map, groundwater is between three hundred (300) and three hundred-fifty (350) feet in the approximate location of the Site.

3.0 INITIAL RESPONSE & ACTIVITIES

3.1 Initial Response

On August 12, 2016, ASSI along with COG personnel responded to a release that occurred on January 18, 2016. Fifteen (15) barrels (bbls) of produced water were released directly to the ground caused by a valve left open on an open-ended poly flowline. Three (3) bbls of the fluids were recovered. The release impacted approximately three thousand five-hundred (3,500) square feet of pasture area adjacent to the Site (Figure 3).

3.2 Drilling Activities

Soil boring activities were conducted by ASSI and COG personnel on August 12th utilizing an air rotary drilling rig. Soil Bore 1 (S1) was advanced to a depth of fifteen (15) feet below grade surface (bgs). Soil Bore 2 (S2) was advanced to a depth of eight (8) foot bgs in an attempt to vertically delineate Chloride at depth. Select samples were field screened for Chloride utilizing electro conductivity during sampling activities. Soil bore locations can be found in Figure 4 of Appendix A

3.2.1 Drilling Soil Sampling Program

Nine (9) soil samples were collected from Soil Bore 1 (S1). Elevated chloride concentrations were found in S1 at depths of one (1) foot to ten (10) feet bgs, with the highest concentration of 13,600 mg/Kg at six (6) feet declining to 224 mg/Kg at fifteen (15) feet bgs. Soil Bore 2 (S2) had a total of six (6) samples collected at depths ranging from one (1) foot to eight (8) feet bgs. Elevated Chloride concentrations were found in S2 at depths of one (1) foot to six (6) feet bgs, with the highest concentration of 5,200 mg/kg at four (4) feet declining to 80.0 mg/kg at eight (8) feet bgs. Samples collected from both soil bore locations were submitted to the laboratory and analyzed for TPH, BTEX and Chloride.

3.3 Excavation Activities

Excavation remediation activities were conducted by ASSI and began in the areas of S1 and S2. Mr. Ryan Reich, an ASSI environmental professional, was onsite on August 30, 2017 to begin remediation efforts by using a hydro excavator (hydro-vac) to remove impacted material previously identified around an existing produced water line running through the proposed excavation area (Figure 4). Remediation efforts continued from August 30th extending until September 12th. The excavation activities included the removal of impacted material installing a 20 mil liner on the bottom of the excavated areas once proposed excavation depths were achieved (Table 1). Final dimensions were approximately one-hundred (100) feet in length, thirty-five (35) feet in width and four (4) feet in depth near the center (Figure 4). Approximately five hundred-twenty (520) cubic yards (yd³) of impacted material was transported to R-360 Environmental Solutions. For proper disposal, manifests are shown in Appendix E.

3.3.1 Excavation Confirmation Soil Sampling Program

Horizontal delineation sampling of the open excavation was conducted on September 9th by ASSI. Four (4) soil samples were collected each from their perspective cardinal directions (North, South, East and West) from the excavated sidewall by ASSI personnel and analyzed for chlorides. The four (4) samples did not exceed the NMOCD clean-up goals for chlorides and the Site was horizontally delineated (Table 1).

4.0 LABORATORY ANALYTICAL METHODS

The samples were analyzed for TPH GRO/DRO utilizing EPA method SW-846 8015, BTEX using EPA method SW-846 8021B, and Chloride utilizing EPA method SW-846 300.1. Copies of the laboratory analysis are provided in Appendix D.

Soil was collected in laboratory prepared glassware, placed on ice, and packed in a cooler. The sample coolers and completed chain-of-custody forms were relinquished to Cardinal Laboratories in Hobbs, New Mexico for the September 21st sampling event and to Xenco Laboratories in Midland, Texas for the August 21st sampling event.

Figure 4 shows the approximate location of the sampling (i.e., Auger Hole, Sidewall and Trench) locations and dimensions of the previously excavated area in relation to pertinent land features and general Site boundaries, which is included in Appendix A.

5.0 REMEDIATION SUMMARY & CLOSURE REQUEST

Based upon the data provided by ASSI, the constituents of concern were horizontally and vertically delineated below the cleanup levels. The previously excavated area of S1 and S2 had a 20 mil liner installed on the bottom of the excavated floor and was backfilled with clean material. Based upon the response actions and laboratory analytical results, no additional investigation and/or remediation appears warranted at this time. ASI respectfully requests closure of the Site on behalf of COG. Copies of the Initial and Final C-141 are provided in Appendix D.



APPENDIX A

Figures

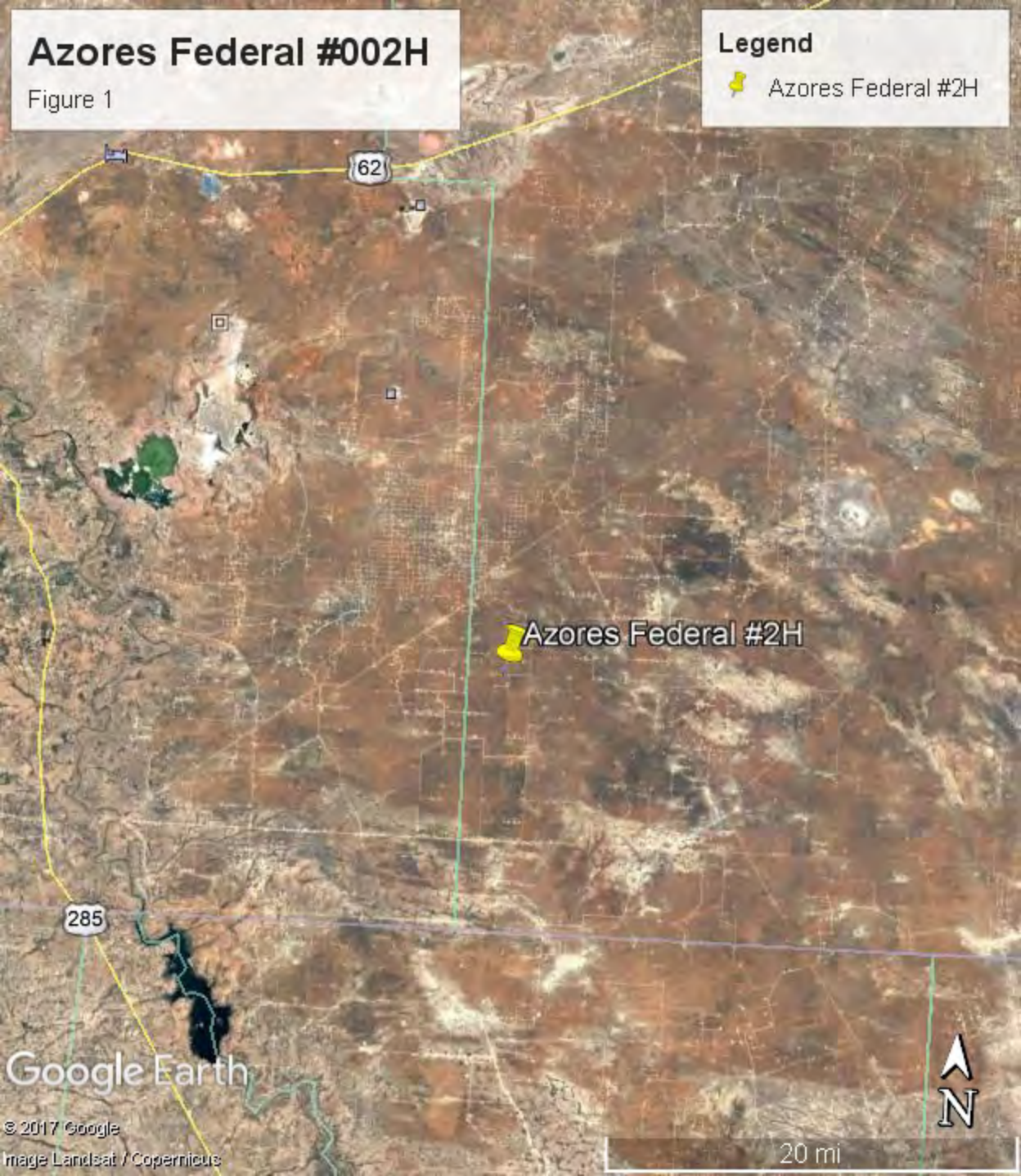
Azores Federal #002H

Figure 1

Legend



Azores Federal #2H



Google Earth

© 2017 Google
Image Landsat / Copernicus

20 mi

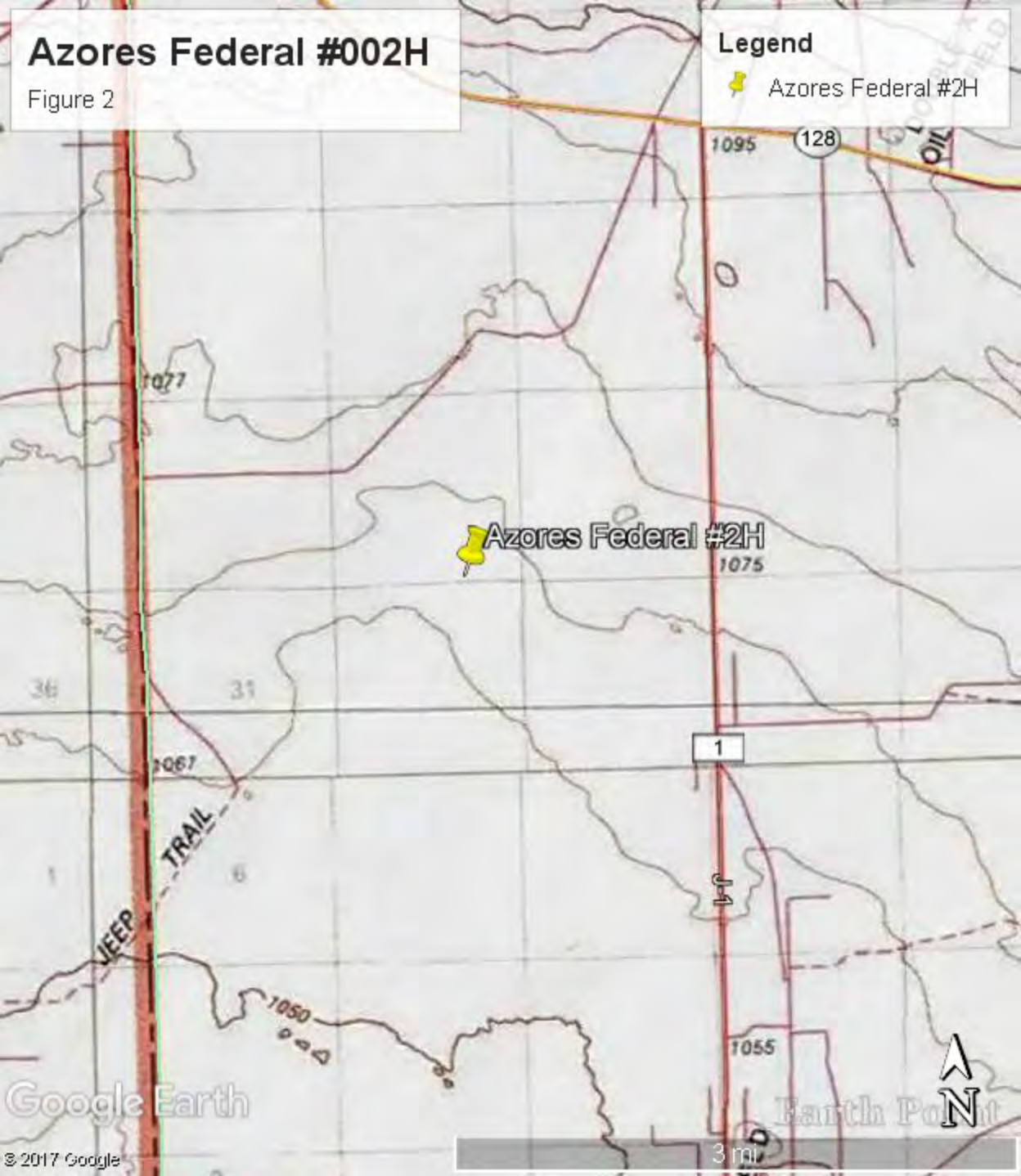
Azores Federal #002H

Figure 2

Legend





Azores Federal #2H



Azores Federal #002H

Figure 3

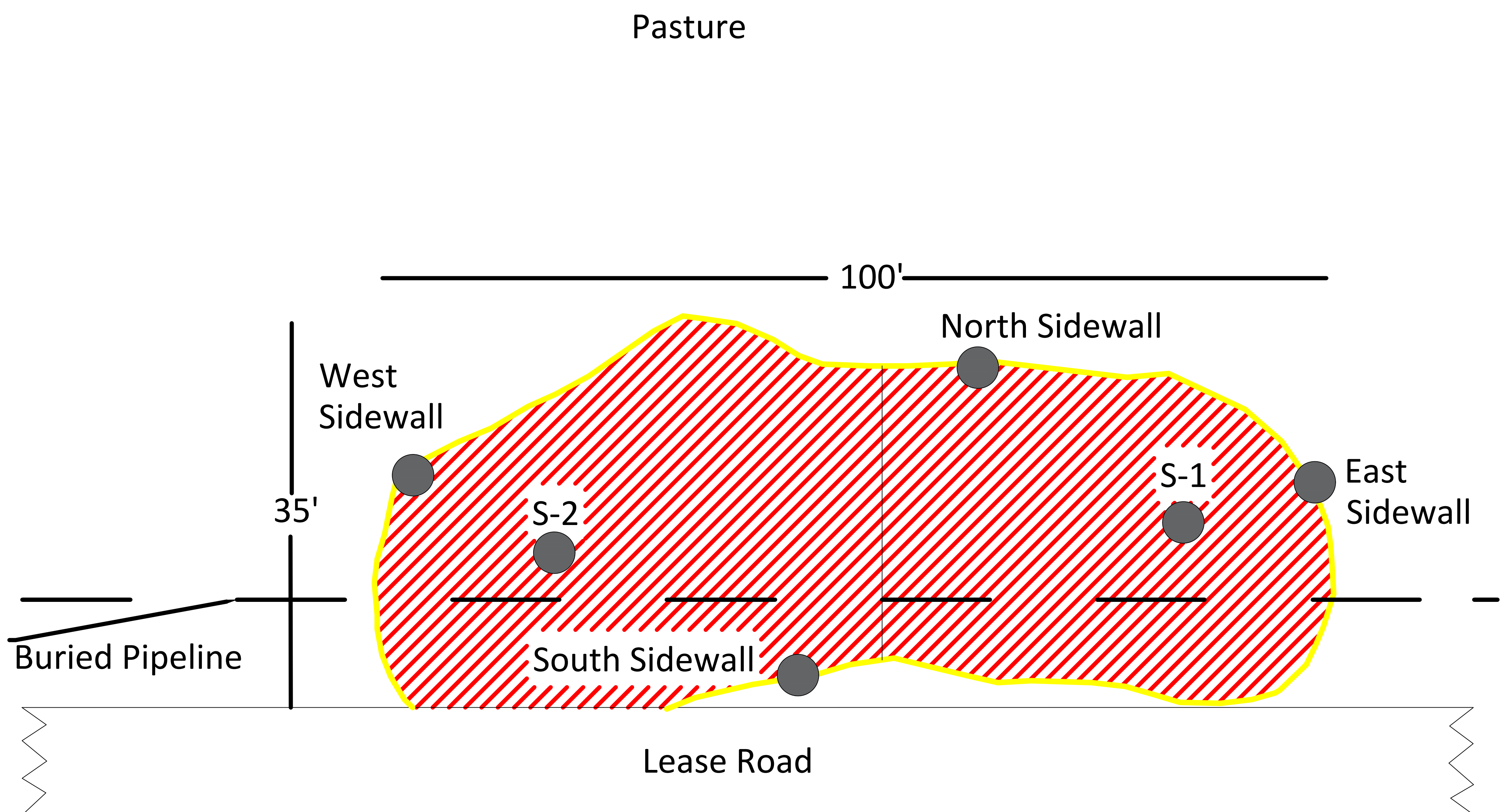
Legend

-  Azores Federal #2H
-  Release Footprint



Google Earth

400 ft



Legend

- Excavated area with Liner
- 4'
- Sample Point

**Concho-
Azores Federal #002H**
Lea County, New Mexico
32.18166N, -103.69351W



**AMERICAN
SAFETY
SERVICES
INC**

American Safety Services, Inc
8715 Andrews Hwy
Odessa, TX 79765
Phone: (432) 552-7625

FIGURE 4
Sample Location Map



APPENDIX B

Table 1

TABLE 1
Summary of Delineation Sampling Analytical Results
Concentrations of Benzene, BTEX, TPH & Chloride in Soil
Concho Operating, LLC
Azores Federal #2H
Lea County, New Mexico
NMOCD REF: 1RP-4149

SAMPLE LOCATION	SAMPLE DEPTH (bgs)	SAMPLE DATE	SOIL STATUS	8021B					8015M			300.0
				BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYLBENZENE (mg/Kg)	XYLENES (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO (mg/Kg)	DRO (mg/Kg)	Total TPH (mg/Kg)	CHLORIDE (mg/Kg)
NMOCD - Guidelines for Remediation of Leaks, Spills and Releases				10	NE	NE	NE	50	NE	NE	5,000	600
Vertical Delineation Sampling												
S1	1'	8/12/2016	Excavated	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	3,440
S1	2'	8/12/2016	Excavated	-	-	-	-	-	-	-	-	2,640
S1	3'	8/12/2016	Excavated	-	-	-	-	-	-	-	-	2,680
S1	4'	8/12/2016	Excavated	-	-	-	-	-	-	-	-	3,240
S1	6'	8/12/2016	In-situ	-	-	-	-	-	-	-	-	13,600
S1	8'	8/12/2016	In-situ	-	-	-	-	-	-	-	-	5,600
S1	10'	8/12/2016	In-situ	-	-	-	-	-	-	-	-	4,240
S1	12'	8/12/2016	In-situ	-	-	-	-	-	-	-	-	480
S1	15'	8/12/2016	In-situ	-	-	-	-	-	-	-	-	224
S2	1'	8/12/2016	Excavated	<0.050	<0.050	<0.050	<0.150	<0.300	<10.0	<10.0	<10.0	848
S2	2'	8/12/2016	Excavated	-	-	-	-	-	-	-	-	2,440
S2	3'	8/12/2016	Excavated	-	-	-	-	-	-	-	-	4,320
S2	4'	8/12/2016	Excavated	-	-	-	-	-	-	-	-	5,200
S2	6'	8/12/2016	In-situ	-	-	-	-	-	-	-	-	3,040
S2	8'	8/12/2016	In-situ	-	-	-	-	-	-	-	-	80.0
North Sidewall	-	9/5/2017	In-situ	-	-	-	-	-	-	-	-	136
South Sidewall	-	9/5/2017	In-situ	-	-	-	-	-	-	-	-	170
East Sidewall	-	9/5/2017	In-situ	-	-	-	-	-	-	-	-	24.9
West Sidewall	-	9/5/2017	In-situ	-	-	-	-	-	-	-	-	43.7

In-situ = sample collected in place

mg/Kg - milligrams per Kilogram

— = Not Established

Concentrations in **BOLD** exceed the NMOCD Guidelines

	Installed liner
	Excavated area



APPENDIX C

Laboratory Analysis

**PERMIAN BASIN
ENVIRONMENTAL LAB, LP
1400 Rankin Hwy
Midland, TX 79701**



Analytical Report

Prepared for:

Thomas Franklin
American Safety Services, Inc
8715 Andrews Hwy
Odessa, TEXAS 79765

Project: COG-Azores Federal #2H

Project Number: [none]

Location: Lee CO NM

Lab Order Number: 7I06002



NELAP/TCEQ # T104704516-16-7

Report Date: 09/08/17

American Safety Services, Inc
8715 Andrews Hwy
Odessa TEXAS, 79765

Project: COG-Azores Federal #2H
Project Number: [none]
Project Manager: Thomas Franklin

Fax: (432) 363-0198

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
North Sidewall	7I06002-01	Soil	09/05/17 14:50	09-06-2017 09:00
South Sidewall	7I06002-02	Soil	09/05/17 14:55	09-06-2017 09:00
East Sidewall	7I06002-03	Soil	09/05/17 15:00	09-06-2017 09:00
West Sidewall	7I06002-04	Soil	09/05/17 15:05	09-06-2017 09:00

American Safety Services, Inc
8715 Andrews Hwy
Odessa TEXAS, 79765

Project: COG-Azores Federal #2H
Project Number: [none]
Project Manager: Thomas Franklin

Fax: (432) 363-0198

North Sidewall

7I06002-01 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	136	1.11	mg/kg dry	1	P7I0612	09/06/17	09/07/17	EPA 300.0
% Moisture	10.0	0.1	%	1	P7I0614	09/06/17	09/07/17	ASTM D2216

American Safety Services, Inc
8715 Andrews Hwy
Odessa TEXAS, 79765

Project: COG-Azores Federal #2H
Project Number: [none]
Project Manager: Thomas Franklin

Fax: (432) 363-0198

South Sidewall
7106002-02 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	170	1.03	mg/kg dry	1	P710612	09/06/17	09/07/17	EPA 300.0	
% Moisture	3.0	0.1	%	1	P710614	09/06/17	09/07/17	ASTM D2216	

American Safety Services, Inc
8715 Andrews Hwy
Odessa TEXAS, 79765

Project: COG-Azores Federal #2H
Project Number: [none]
Project Manager: Thomas Franklin

Fax: (432) 363-0198

East Sidewall
7106002-03 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	24.9	1.25	mg/kg dry	1	P710612	09/06/17	09/07/17	EPA 300.0
% Moisture	20.0	0.1	%	1	P710614	09/06/17	09/07/17	ASTM D2216

American Safety Services, Inc
8715 Andrews Hwy
Odessa TEXAS, 79765

Project: COG-Azores Federal #2H
Project Number: [none]
Project Manager: Thomas Franklin

Fax: (432) 363-0198

West Sidewall
7106002-04 (Soil)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
---------	--------	--------------------	-------	----------	-------	----------	----------	--------	-------

Permian Basin Environmental Lab, L.P.

General Chemistry Parameters by EPA / Standard Methods

Chloride	43.7	1.25	mg/kg dry	1	P710612	09/06/17	09/07/17	EPA 300.0	
% Moisture	20.0	0.1	%	1	P710614	09/06/17	09/07/17	ASTM D2216	

American Safety Services, Inc
8715 Andrews Hwy
Odessa TEXAS, 79765

Project: COG-Azores Federal #2H
Project Number: [none]
Project Manager: Thomas Franklin

Fax: (432) 363-0198

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch P7I0612 - * DEFAULT PREP *****

Blank (P7I0612-BLK1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Chloride	ND	1.00	mg/kg wet							
LCS (P7I0612-BS1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Chloride	437	1.00	mg/kg wet	400		109	80-120			
LCS Dup (P7I0612-BSD1)				Prepared: 09/06/17 Analyzed: 09/07/17						
Chloride	445	1.00	mg/kg wet	400		111	80-120	1.75	20	
Duplicate (P7I0612-DUP1)				Source: 7I06001-01		Prepared: 09/06/17 Analyzed: 09/07/17				
Chloride	2110	31.2	mg/kg dry		2080			1.45	20	
Duplicate (P7I0612-DUP2)				Source: 7I06002-01		Prepared: 09/06/17 Analyzed: 09/07/17				
Chloride	133	1.11	mg/kg dry		136			1.54	20	
Matrix Spike (P7I0612-MS1)				Source: 7I06001-01		Prepared: 09/06/17 Analyzed: 09/07/17				
Chloride	4760	31.2	mg/kg dry	2500	2080	107	80-120			

Batch P7I0614 - * DEFAULT PREP *****

Blank (P7I0614-BLK1)				Prepared: 09/06/17 Analyzed: 09/07/17						
% Moisture	ND	0.1	%							
Duplicate (P7I0614-DUP1)				Source: 7I05001-27		Prepared: 09/06/17 Analyzed: 09/07/17				
% Moisture	12.0	0.1	%		12.0			0.00	20	
Duplicate (P7I0614-DUP2)				Source: 7I05008-01		Prepared: 09/06/17 Analyzed: 09/07/17				
% Moisture	13.0	0.1	%		12.0			8.00	20	

American Safety Services, Inc
8715 Andrews Hwy
Odessa TEXAS, 79765

Project: COG-Azores Federal #2H
Project Number: [none]
Project Manager: Thomas Franklin

Fax: (432) 363-0198

General Chemistry Parameters by EPA / Standard Methods - Quality Control
Permian Basin Environmental Lab, L.P.

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch P7I0614 - * DEFAULT PREP *****

Duplicate (P7I0614-DUP3)

Source: 7I06006-08

Prepared: 09/06/17 Analyzed: 09/07/17

% Moisture	9.0	0.1	%		9.0			0.00	20	
------------	-----	-----	---	--	-----	--	--	------	----	--

American Safety Services, Inc
8715 Andrews Hwy
Odessa TEXAS, 79765

Project: COG-Azores Federal #2H
Project Number: [none]
Project Manager: Thomas Franklin

Fax: (432) 363-0198

Notes and Definitions

BULK Samples received in Bulk soil containers
DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis
RPD Relative Percent Difference
LCS Laboratory Control Spike
MS Matrix Spike
Dup Duplicate

Report Approved By:



Date:

9/8/2017

Brent Barron, Laboratory Director/Technical Director

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-686-7235.

Project Manager: Thomas Franklin

Company Name: American Safety Services Inc.

Company Address: 8715 Andrews Hwy.

City/State/Zip: Odessa, TX 79765

Telephone No: 432-557-9868/432-552-7625

Sampler Signature: *Michael*

e-mail:

tf Franklin@americansafety.net
izimmerman@americansafety.net

Fax No:

Report Format: ☐ Standard ☐ TRRP ☐ NPDES

PO #:

Project #:

Project Name: COG-APORS Federal #24 H

Project Loc: LCA Co. NM

ORDER #: 7106002

LAB # (lab use only)		FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total #. of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₃	None	Other (Specify)	DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chloride	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
1	North Side Well	1	1	9/5/17	1450	N	1	X									S-GW															
2	South Side Well	1	1	9/5/17	1455	N	1	X									S-GW															
3	East Side Well	1	1	9/5/17	1500	N	1	X									S-GW															
4	West Side Well	1	1	9/5/17	1505	N	1	X									S-GW															
NEE																																

Special Instructions:

Relinquished by: <i>Michael</i>	Date: 9/6/17	Time: 0900	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received by: PBEL:	Date: 9-6-17	Time: 900

Received: 3.0 °C

Adjusted: 4.4 °C

by Courier? UPS DHL FedEx Lone Star

Sample Hand Delivered by Sampler/Client Rep.?

Labels on container(s)?

VOCs Free of HeadSpace?

Sample Containers Intact?

Custody seals on container(s)?

Custody seals on cooler(s)?

Temperature Upon Receipt: 4.4 °C



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

August 24, 2016

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: AZORES FEDERAL #2H

Enclosed are the results of analyses for samples received by the laboratory on 08/17/16 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/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited 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. Keene

Lab Director/Quality Manager

Analytical Results For:

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

Received: 08/17/2016
Reported: 08/24/2016
Project Name: AZORES FEDERAL #2H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/12/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Angela Cabrera

Sample ID: S1 - 1' (H601857-01)

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	08/20/2016	ND	2.28	114	2.00	3.95	
Toluene*	<0.050	0.050	08/20/2016	ND	2.32	116	2.00	3.70	
Ethylbenzene*	<0.050	0.050	08/20/2016	ND	2.21	110	2.00	4.14	
Total Xylenes*	<0.150	0.150	08/20/2016	ND	6.68	111	6.00	3.96	
Total BTEX	<0.300	0.300	08/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 105 % 73.6-140

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3440	16.0	08/22/2016	ND	416	104	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	08/19/2016	ND	218	109	200	1.61	
DRO >C10-C28	<10.0	10.0	08/19/2016	ND	234	117	200	1.50	

Surrogate: 1-Chlorooctane 84.7 % 35-147

Surrogate: 1-Chlorooctadecane 95.7 % 28-171

Sample ID: S1 - 2' (H601857-02)

Chloride, SM4500Cl-B			mg/kg		Analyzed By: AC				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2640	16.0	08/22/2016	ND	416	104	400	0.00	

Cardinal Laboratories

*=Accredited Analyte

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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: 08/17/2016
Reported: 08/24/2016
Project Name: AZORES FEDERAL #2H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/12/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Angela Cabrera

Sample ID: S1 - 3' (H601857-03)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	2680	16.0	08/22/2016	ND	416	104	400	0.00		

Sample ID: S1 - 4' (H601857-04)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	3240	16.0	08/22/2016	ND	416	104	400	0.00	

Sample ID: S1 - 6' (H601857-05)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	13600	16.0	08/22/2016	ND	416	104	400	0.00		

Sample ID: S1 - 8' (H601857-06)

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	5600	16.0	08/22/2016	ND	416	104	400	0.00	

Sample ID: S1 - 10' (H601857-07)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4240	16.0	08/22/2016	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Analytical Results For:COG OPERATING
DAKOTA NEEL
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONEReceived: 08/17/2016
Reported: 08/24/2016
Project Name: AZORES FEDERAL #2H
Project Number: NONE GIVEN
Project Location: NOT GIVENSampling Date: 08/12/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Angela Cabrera**Sample ID: S1 - 12' (H601857-08)**

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	08/22/2016	ND	416	104	400	0.00	

Sample ID: S1 - 15' (H601857-09)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	224	16.0	08/22/2016	ND	416	104	400	0.00	

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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: 08/17/2016
Reported: 08/24/2016
Project Name: AZORES FEDERAL #2H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/12/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Angela Cabrera

Sample ID: S2 - 1' (H601857-10)

BTX 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	08/20/2016	ND	2.28	114	2.00	3.95	
Toluene*	<0.050	0.050	08/20/2016	ND	2.32	116	2.00	3.70	
Ethylbenzene*	<0.050	0.050	08/20/2016	ND	2.21	110	2.00	4.14	
Total Xylenes*	<0.150	0.150	08/20/2016	ND	6.68	111	6.00	3.96	
Total BTX	<0.300	0.300	08/20/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 107 % 73.6-140

Chloride, SM4500CI-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	848	16.0	08/22/2016	ND	416	104	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	08/19/2016	ND	218	109	200	1.61	
DRO >C10-C28	<10.0	10.0	08/19/2016	ND	234	117	200	1.50	

Surrogate: 1-Chlorooctane 88.5 % 35-147

Surrogate: 1-Chlorooctadecane 99.7 % 28-171

Sample ID: S2 - 2' (H601857-11)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2440	16.0	08/23/2016	ND	416	104	400	0.00	

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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: 08/17/2016
Reported: 08/24/2016
Project Name: AZORES FEDERAL #2H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/12/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Angela Cabrera

Sample ID: S2 - 3' (H601857-12)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	4320	16.0	08/23/2016	ND	416	104	400	0.00	

Sample ID: S2 - 4' (H601857-13)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	5200	16.0	08/23/2016	ND	416	104	400	0.00		

Sample ID: S2 - 6' (H601857-14)

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	08/23/2016	ND	416	104	400	0.00	

Sample ID: S2 - 8' (H601857-15)

Chloride, SM4500Cl-B		mg/kg		Analyzed By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	08/23/2016	ND	416	104	400	0.00	

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Celey D. Keene, Lab Director/Quality Manager

Notes and Definitions

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

Cardinal Laboratories

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Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 8 of 9



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Page 9 of 9



APPENDIX D

Initial and Final C-141

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

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 West Illinois Avenue, Midland TX 79701	Telephone No. 432-230-0077
Facility Name: AZORES FEDERAL #002H	Facility Type: Wellhead

Surface Owner: Federal	Mineral Owner: Federal	API No. 30-025-41534
------------------------	------------------------	----------------------

LOCATION OF RELEASE

Unit Letter O	Section 29	Township 24S	Range 32E	Feet from the 190'	North/South Line South	Feet from the 1650'	East/West Line East	County Lea
------------------	---------------	-----------------	--------------	-----------------------	---------------------------	------------------------	------------------------	---------------

Latitude 32.1816673 Longitude -103.6935196

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 15 bbls PW	Volume Recovered: 3 bbls PW
Source of Release: Flowline	Date and Hour of Occurrence: 1-18-2016 2:00 pm	Date and Hour of Discovery: 1-18-2016 2:00 pm
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour:	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*


This release was caused by an open valve on an open end poly line. A vacuum truck was dispatched to recover standing fluid.

Describe Area Affected and Cleanup Action Taken.*

This release is located in the pasture along the lease road. Concho will have the spill site sampled to delineate any possible contamination from the release and we will present a remediation work plan to the NMOCD for approval prior to any significant remediation work.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature: 	Approved by Environmental Specialist:		
Printed Name: Robert McNeill			
Title: Environmental Manager	Approval Date:	Expiration Date:	
E-mail Address: rmcneill@concho.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: February 1, 2016	Phone: 432-230-0077		

* Attach Additional Sheets If Necessary

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 April 3, 2017

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 McNeil
Address: 600 West Illinois Avenue, Midland TX 79701	Telephone No.: 432-230-0077
Facility Name: AZORES FEDERAL #002H	Facility Type: Wellhead

Surface Owner: Federal	Mineral Owner: Federal	API No.: 30-025-41534
------------------------	------------------------	-----------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County:
O	29	24S	32E	190'	South	1650'	East	Lea

Latitude 32.1816673 Longitude -103.6935196

NATURE OF RELEASE

Type of Release: Produced Water	Volume of Release: 15 bbls PW	Volume Recovered: 3 bbls PW
Source of Release: Flowline	Date and Hour of Occurrence: 1-18-2016 2:00 PM	Date and Hour of Discovery: 1-18-2016 2:00 PM
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

APPROVED

By Olivia Yu at 10:45 am, Feb 26, 2018

If a Watercourse was Impacted, Describe Fully.*
N/A

Describe Cause of Problem and Remedial Action Taken.*
The release was caused by an open valve on an open end poly line. A vacuum truck recovered standing fluid. COG assigned ASSI to remediate the spill. ASI sampled the spill and prepared a work plan.

Describe Area Affected and Cleanup Action Taken.*
The site was remediated by ASSI in 2017, impacted material was excavated and sent to R-360 for proper disposal. Confirmation samples were collected and sent to an NMOCD approved laboratory, which determined Chloride levels were less than NMOCD regulatory standards. Subsequently, the Site was backfilled and the surface has been restored.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: <i>Rebecca Haskell</i>	OIL CONSERVATION DIVISION	
Printed Name: Rebecca Haskell	Approved by Environmental Specialist: <i>oy</i>	
Title: Senior HSE Coordinator	Approval Date: 2/26/2018	Expiration Date: xx/xx/xxxx
E-mail Address: rhaskell@concho.com	Conditions of Approval:	
Date: October 26, 2017 Phone: 432-683-7443	Attached <input type="checkbox"/>	

* Attach Additional Sheets If Necessary

1RP-4149



APPENDIX E

Waste Manifest



Permian Basin

Customer: COG OPERATING LLC
Customer #: CRI2120
Ordered by: REBECCA HASKELL
AFE #:
PO #:
Manifest #: NA
Manif. Date: 9/6/2017
Hauler: APSI
Driver: ABEL
Truck #: 1130
Card #
Job Ref #

Ticket #: 700-832191
Bid #: O6UJ9A00092L
Date: 9/6/2017
Generator: COG OPERATING LLC
Generator #:
Well Ser. #: 41534
Well Name: AZORES FEDERAL
Well #: 002H
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Abel / K. V. V. V.

[Signature]

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: COG OPERATING LLC
Customer #: CRI2120
Ordered by: REBECCA HASKELL
AFE #:
PO #:
Manifest #: NA
Manif. Date: 9/7/2017
Hauler: APSI
Driver: ABEL
Truck #: 1130
Card #
Job Ref #

Ticket #: 700-832497
Bid #: O6UJ9A00092L
Date: 9/7/2017
Generator: COG OPERATING LLC
Generator #:
Well Ser. #: 41534
Well Name: AZORES FEDERAL
Well #: 002H
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items)

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Abel Rivera

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: COG OPERATING LLC
Customer #: CRI2120
Ordered by: REBECCA HASKELL
AFE #:
PO #:
Manifest #: NA
Manif. Date: 9/7/2017
Hauler: APSI
Driver: ABEL
Truck #: 1130
Card #
Job Ref #

Ticket #: 700-832547
Bid #: O6UJ9A00092L
Date: 9/7/2017
Generator: COG OPERATING LLC
Generator #:
Well Ser. #: 41534
Well Name: AZORES FEDERAL
Well #: 002H
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Abel Rivera

[Signature]

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: COG OPERATING LLC
Customer #: CRI2120
Ordered by: REBECCA HASKELL
AFE #:
PO #:
Manifest #: NA
Manif. Date: 9/7/2017
Hauler: APSI
Driver: ABEL
Truck #: 1130
Card #
Job Ref #

Ticket #: 700-832593
Bid #: O6UJ9A00092L
Date: 9/7/2017
Generator: COG OPERATING LLC
Generator #:
Well Ser. #: 41534
Well Name: AZORES FEDERAL
Well #: 002H
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service						Quantity Units					
Contaminated Soil (RCRA Exempt)						20.00 yards					
	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

☒ RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.

☐ RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exceed the minimum standards for waste hazardous by characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as amended. The following documentation is attached to demonstrate the above-described waste is non-hazardous. (Check the appropriate items):

☐ MSDS Information ☐ RCRA Hazardous Waste Analysis ☐ Process Knowledge ☐ Other (Provide description above)

Driver/ Agent Signature

R360 Representative Signature

Abel Rivera

Customer Approval

THIS IS NOT AN INVOICE!

Approved By: _____

Date: _____



Permian Basin

Customer: COG OPERATING LLC
Customer #: CRI2120
Ordered by: REBECCA HASKELL 432-556-5
AFE #:
PO #:
Manifest #: NA
Manif. Date: 9/7/2017
Hauler: APSI
Driver: ABEL
Truck #: 1130
Card #
Job Ref #

Ticket #: 700-832633
Bid #: O6UJ9A00092L
Date: 9/7/2017
Generator: COG OPERATING LLC
Generator #:
Well Ser. #: 41534
Well Name: AZORES FEDERAL
Well #: 002H
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

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Driver/ Agent Signature

R360 Representative Signature

Abel Rivera

[Signature]

Customer Approval

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Approved By: _____

Date: _____



Permian Basin

Customer: COG OPERATING LLC
Customer #: CRI2120
Ordered by: REBECCA HASKELL 432-556-5
AFE #:
PO #:
Manifest #: NA
Manif. Date: 9/7/2017
Hauler: APSI
Driver: ABEL
Truck #: 1130
Card #
Job Ref #

Ticket #: 700-832661
Bid #: O6UJ9A00092L
Date: 9/7/2017
Generator: COG OPERATING LLC
Generator #:
Well Ser. #: 41534
Well Name: AZORES FEDERAL
Well #: 002H
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

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Driver/ Agent Signature

R360 Representative Signature

Abel Rivera

[Signature]

Customer Approval

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Date: _____



Permian Basin

Customer: COG OPERATING LLC
Customer #: CRI2120
Ordered by: REBIECCA HASKELL
AFE #:
PO #:
Manifest #: NA
Manif. Date: 9/8/2017
Hauler: APSI
Driver: ABEL
Truck #: 1130
Card #
Job Ref #

Ticket #: 700-832801
Bid #: O6UJ9A00092L
Date: 9/8/2017
Generator: COG OPERATING LLC
Generator #:
Well Ser. #: 41534
Well Name: AZORES FEDERAL
Well #: 002H
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is:

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Driver/ Agent Signature

R360 Representative Signature

Abel River

[Signature]

Customer Approval

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Approved By: _____

Date: _____



Permian Basin

Customer: COG OPERATING LLC
Customer #: CRI2120
Ordered by: REBECCA HASKELL
AFE #:
PO #:
Manifest #: NA
Manif. Date: 9/11/2017
Hauler: APSI
Driver: ABEL
Truck #: 1130
Card #
Job Ref #

Ticket #: 700-833405
Bid #: O6UJ9A00092L
Date: 9/11/2017
Generator: COG OPERATING LLC
Generator #:
Well Ser. #: 41534
Well Name: AZORES FEDERAL
Well #: 002H
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

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Driver/ Agent Signature

R360 Representative Signature

Abel River

Customer Approval

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Approved By: _____

Date: _____



Permian Basin

Customer: COG OPERATING LLC
Customer #: CRI2120
Ordered by: REBECCA HASKELL
AFE #:
PO #:
Manifest #: NA
Manif. Date: 9/11/2017
Hauler: APSI
Driver: ABEL
Truck #: 1130
Card #
Job Ref #

Ticket #: 700-833443
Bid #: O6UJ9A00092L
Date: 9/11/2017
Generator: COG OPERATING LLC
Generator #:
Well Ser. #: 41534
Well Name: AZORES FEDERAL
Well #: 002H
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

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Approved By: _____

Date: _____



Permian Basin

Customer: COG OPERATING LLC
Customer #: CRI2120
Ordered by: REBECCA HASKELL
AFE #:
PO #:
Manifest #: NA
Manif. Date: 9/12/2017
Hauler: APSI
Driver: ABEL
Truck #: 1130
Card #
Job Ref #

Ticket #: 700-833711
Bid #: O6UJ9A00092L
Date: 9/12/2017
Generator: COG OPERATING LLC
Generator #:
Well Ser. #: 41534
Well Name: AZORES FEDERAL
Well #: 002H
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

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Driver/ Agent Signature

R360 Representative Signature

Abel Rivera

[Signature]

Customer Approval

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Approved By: _____

Date: _____



Permian Basin

Customer: COG OPERATING LLC
Customer #: CRI2120
Ordered by: REBECCA HASKELL
AFE #:
PO #:
Manifest #: NA
Manif. Date: 9/12/2017
Hauler: APSI
Driver: ABEL
Truck #: 1130
Card #
Job Ref #

Ticket #: 700-833787
Bid #: O6UJ9A00092L
Date: 9/12/2017
Generator: COG OPERATING LLC
Generator #:
Well Ser. #: 41534
Well Name: AZORES FEDERAL
Well #: 002H
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

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Driver/ Agent Signature

R360 Representative Signature

Abel Rivera

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Approved By: _____

Date: _____



Permian Basin

Customer: COG OPERATING LLC
Customer #: CRI2120
Ordered by: REBECCA HASKELL
AFE #:
PO #:
Manifest #: NA
Manif. Date: 9/13/2017
Hauler: GOLD SPEED TRUCKING LLC
Driver: FRANCISCO
Truck #: 10
Card #
Job Ref #

Ticket #: 700-834008
Bid #: O6UJ9A00092L
Date: 9/13/2017
Generator: COG OPERATING LLC
Generator #:
Well Ser. #: 41534
Well Name: AZORES FEDERAL
Well #: 002H
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service		Quantity Units									
Contaminated Soil (RCRA Exempt)		20.00 yards									
	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

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Approved By: _____

Date: _____



Permian Basin

Customer: COG OPERATING LLC
Customer #: CRI2120
Ordered by: REBECCA HASKELL
AFE #:
PO #:
Manifest #: NA
Manif. Date: 9/13/2017
Hauler: GOLD SPEED TRUCKING LLC
Driver: FRANISCO
Truck #: 10
Card #
Job Ref #

Ticket #: 700-834058
Bid #: O6UJ9A00092L
Date: 9/13/2017
Generator: COG OPERATING LLC
Generator #:
Well Ser. #: 41534
Well Name: AZORES FEDERAL
Well #: 002H
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

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Driver/ Agent Signature

R360 Representative Signature



Customer Approval



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Date: _____



Permian Basin

Customer: COG OPERATING LLC
Customer #: CRI2120
Ordered by: REBECCA HASKELL
AFE #:
PO #:
Manifest #: NA
Manif. Date: 9/13/2017
Hauler: GOLD SPEED TRUCKING LLC
Driver: FRANCISCO
Truck #: 10
Card #
Job Ref #

Ticket #: 700-834093
Bid #: O6UJ9A00092L
Date: 9/13/2017
Generator: COG OPERATING LLC
Generator #:
Well Ser. #: 41534
Well Name: AZORES FEDERAL
Well #: 002H
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
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Generator Certification Statement of Waste Status

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Driver/ Agent Signature

R360 Representative Signature

Customer Approval

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Approved By: _____

Date: _____



Permian Basin

Customer: COG OPERATING LLC
Customer #: CRI2120
Ordered by: REBECCA HASKELL
AFE #:
PO #:
Manifest #: NA
Manif. Date: 9/13/2017
Hauler: GOLD SPEED TRUCKING LLC
Driver: FRANCISCO
Truck #: 10
Card #
Job Ref #

Ticket #: 700-834129
Bid #: O6UJ9A00092L
Date: 9/13/2017
Generator: COG OPERATING LLC
Generator #:
Well Ser. #: 41534
Well Name: AZORES FEDERAL
Well #: 002H
Field:
Field #:
Rig: NON-DRILLING
County: LEA (NM)

Facility: CRI

Product / Service

Quantity Units

Contaminated Soil (RCRA Exempt)

20.00 yards

	Cell	pH	Cl	Cond.	%Solids	TDS	PCI/GM	MR/HR	H2S	% Oil	Weight
Lab Analysis:	50/51	0.00	0.00	0.00	0						

Generator Certification Statement of Waste Status

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