

March 25, 2015

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

Re: Miranda Federal #13

30-015-38052 Sec. 9, T17S-R30E Eddy County, NM

Mr. Mike Bratcher,

COG Operating LLC would like to submit for your consideration the enclosed documents for closure of the above captioned well. The closure is in response to the C-141 Initial submitted December 19, 2014.

### **Background**

The release was caused by a failed ¼ nipple on the tubing at the well head resulting in the release of 20 barrels of oil and 15 barrels of produced water. A vacuum truck was dispatched to recover all standing fluid of which 18 barrels of oil and 10 barrels of produced water were recovered. The release impacted an area of approximately 1600 square feet on the pad and misted the nearby pasture which was treated with Micro Blaze® and soapy water at the time of discovery. The location was scraped and all impacted soil was hauled to a NMOCD approved facility for disposal.

### Groundwater

Based on the Chevron Trend Maps, the release area would be classified at a site ranking of Zero due to the depth of groundwater at greater than 325 feet.

### Soil Assessment and Analytical Results

Sample points for the impacted area were chosen based on the major pooling areas of the release labeled as S1 and S2 on the attached site diagram. Sample results for S1 show TPH, BTEX, and chlorides to be non-detect. S2 results show TPH and BTEX levels to be non-detect with chloride levels within tolerable range for plant growth at a depth of 1' and 2'. At a depth of 3' chlorides are slightly elevated, but delineation of the area shows a decrease below 1000 ppm at a depth of 7'. The major pooling areas occurred on the existing well pad of a viable producing well.

NMOCD March 25, 2015 Page 2

### **Work Plan**

COG Operating LLC proposes no further excavation of the release area based on chloride levels at depths sustainable for plant growth and nonthreatening to groundwater which is at a depth greater than 325 feet. Although chloride levels are low, any potential issues with plant regrowth would be handled at time of abandonment.

If there are no objections or further stipulations, COG Operating LLC would like to request closure of the site based on approval of the enclosed documents. A signed C-141 Final is enclosed for your consideration. Please feel free to contact me with any further questions or concerns at (575) 748-6933.

Sincerely,

Lupe Carrasco

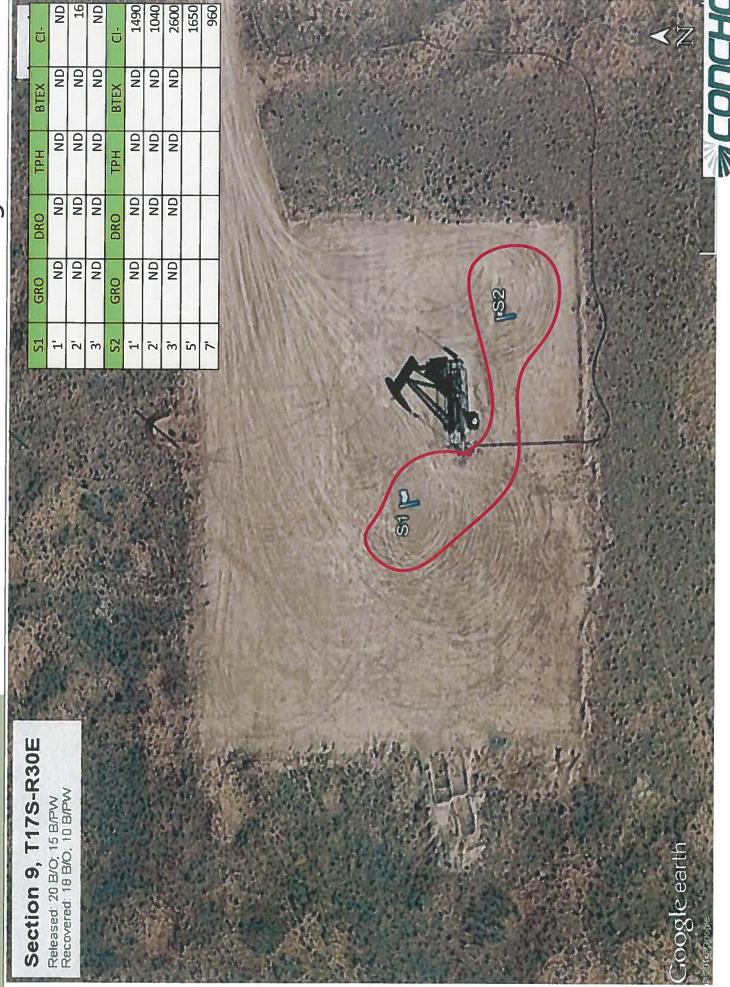
**Environmental Coordinator** 

Enclosed: Site Diagram

Analytical Results C-141 Initial (Copy)

C-141 Final

### Miranda Federal #13





March 11, 2015

**LUPE CARRASCO** 

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: MIRANDA FEDERAL #13

Enclosed are the results of analyses for samples received by the laboratory on 03/06/15 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

03/06/2015

Reported:

03/11/2015

Project Name:

MIRANDA FEDERAL #13

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

02/26/2015

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By: Jodi Henson

### Sample ID: S1-1' (H500633-01)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2015	ND	2.07	103	2.00	4.02	
Toluene*	<0.050	0.050	03/10/2015	ND	1.91	95.7	2.00	2.62	
Ethylbenzene*	<0.050	0.050	03/10/2015	ND	2.18	109	2.00	4.58	
Total Xylenes*	<0.150	0.150	03/10/2015	ND	5.95	99.1	6.00	5.80	
Total BTEX	<0.300	0.300	03/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	113 9	6 61-154						2.	
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/09/2015	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					_
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/09/2015	ND	209	104	200	4.63	
DRO >C10-C28	<10.0	10.0	03/09/2015	ND	220	110	200	4.65	
Surrogate: 1-Chlorooctane	92.0	% 47.2-15°	7						
Surrogate: 1-Chlorooctadecane	97.4	52.1-170	6						

### Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Llability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg D. Keins



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

03/06/2015

Reported:

03/11/2015

Project Name:

MIRANDA FEDERAL #13

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date: Sampling Type:

oling Date:

02/26/2015 Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

### Sample ID: S1-2' (H500633-02)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2015	ND	2.07	103	2.00	4.02	
Toluene*	<0.050	0.050	03/10/2015	ND	1.91	95.7	2.00	2.62	
Ethylbenzene*	<0.050	0.050	03/10/2015	ND	2.18	109	2.00	4.58	
Total Xylenes*	<0.150	0.150	03/10/2015	ND	5.95	99.1	6.00	5.80	
Total BTEX	<0.300	0.300	03/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	115 9	6 61-154	,				7b		
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	03/09/2015	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/09/2015	ND	209	104	200	4.63	
DRO >C10-C28	<10.0	10.0	03/09/2015	ND	220	110	200	4.65	
Surrogate: 1-Chlorooctane	85.5	V <sub>0</sub> 47.2-15	7						
Surrogate: 1-Chlorooctadecane	92.99	52.1-17	6						

### Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Ulability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Liaboratories.

Celeg Z. Krens



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

03/06/2015

Sampling Date:

02/26/2015

Reported:

03/11/2015

Sampling Type:

Soil

Project Name:

MIRANDA FEDERAL #13

Sampling Condition: Sample Received By:

Cool & Intact Jodi Henson

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sample ID: S1-3' (H500633-03)

BTEX 8021B	mg/	kg	Analyze	d By: ms			-44		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2015	ND	2.07	103	2.00	4.02	
Toluene*	<0.050	0.050	03/10/2015	ND	1.91	95.7	2.00	2.62	
Ethylbenzene*	<0.050	0.050	03/10/2015	ND	2.18	109	2.00	4.58	
Total Xylenes*	<0.150	0.150	03/10/2015	ND	5.95	99.1	6.00	5.80	
Total BTEX	<0.300	0.300	03/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	113 9	61-154	,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	03/09/2015	ND	416	104	400	3.77	
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	03/09/2015	ND	209	104	200	4.63	
DRO >C10-C28	<10.0	10.0	03/09/2015	ND	220	110	200	4.65	
Surrogate: 1-Chlorooctane	86.3	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	96.5	52.1-176	6						

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Celeg L. Kuno -



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

03/06/2015

Reported:

03/11/2015

Project Name: Project Number: MIRANDA FEDERAL #13

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

ampling Date:

02/26/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: Cool & Intact

Jodi Henson

### Sample ID: S2-1' (H500633-04)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2015	ND	2.07	103	2.00	4.02	
Toluene*	<0.050	0.050	03/10/2015	ND	1.91	95.7	2.00	2,62	
Ethylbenzene*	<0.050	0.050	03/10/2015	ND	2.18	109	2.00	4.58	
Total Xylenes*	<0.150	0.150	03/10/2015	ND	5.95	99.1	6.00	5.80	
Total BTEX	<0.300	0.300	03/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1149	61-154							
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1490	16.0	03/09/2015	ND	416	104	400	3.77	
TPH 8015M	mg/kg		Analyzed By: MS			-0 -01			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/09/2015	ND	209	104	200	4.63	
DRO >C10-C28	<10.0	10.0	03/09/2015	ND	220	110	200	4.65	
Surrogate: 1-Chlorooctane	90.89	% 47.2-15	7						
Surrogate: I-Chlorooctadecane	100 9	6 52.1-17							

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COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

03/06/2015

Sampling Date:

02/26/2015

Reported:

03/11/2015

Sampling Type:

Sample Received By:

Soil

Project Name:

MIRANDA FEDERAL #13

Sampling Condition:

Cool & Intact Jodi Henson

Project Number: Project Location:

NONE GIVEN

NOT GIVEN

Sample ID: S2-2' (H500633-05)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2015	ND	2.07	103	2.00	4.02	
Toluene*	<0.050	0.050	03/10/2015	ND	1.91	95.7	2.00	2.62	
Ethylbenzene*	<0.050	0.050	03/10/2015	ND	2.18	109	2.00	4.58	
Total Xylenes*	<0.150	0.150	03/10/2015	ND	5.95	99.1	6.00	5.80	
Total BTEX	<0.300	0.300	03/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1179	6 61-154	!						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP		- 1 200			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	1040	16.0	03/09/2015	ND	416	104	400	3.77	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	03/10/2015	ND	203	101	200	0.849	
DRO >C10-C28	<10.0	10.0	03/10/2015	ND	201	101	200	5.04	
Surrogate: 1-Chlorooctane	91.0	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	87.0	% 52.1-17	6						

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\*=Accredited Analyte

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Celego there-



COG OPERATING LUPE CARRASCO P. O. BOX 1630 ARTESIA NM, 88210 Fax To: NONE

Received:

03/06/2015

015

Sampling Date:

02/26/2015

Reported:

03/11/2015

Sampling Type:

Soil

Project Name:

MIRANDA FEDERAL #13

Sampling Condition: Sample Received By: Cool & Intact Jodi Henson

Project Number:

NONE GIVEN

Project Location: NOT GIVEN

### Sample ID: S2-3' (H500633-06)

BTEX 8021B	mg/	kg	Analyze	d By: ms					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	03/10/2015	ND	2.07	103	2.00	4.02	
Toluene*	<0.050	0.050	03/10/2015	ND	1.91	95.7	2.00	2.62	
Ethylbenzene*	<0.050	0.050	03/10/2015	ND	2.18	109	2.00	4.58	
Total Xylenes*	<0.150	0.150	03/10/2015	ND	5.95	99.1	6.00	5.80	
Total BTEX	<0.300	0.300	03/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	1169	61-154	-						-
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP		100			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	2600	16.0	03/09/2015	ND	416	104	400	3.77	
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	03/10/2015	ND	203	101	200	0.849	
DRO >C10-C28	<10.0	10.0	03/10/2015	ND	201	101	200	5.04	
Surrogate: 1-Chlorooctane	88.4	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	82.8 9	% 52.1-17	5						

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Celley & Keins

\*=Accredited Analyte



### **Notes and Definitions**

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

\*=Accredited Analyte

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Celegat Keine



### (575) 393-2326 FAX (575) 393-2476

company name:	COG Operating LLC			1011000 101	9/1/2					ANALYSIS REQUEST	IECT
Project Manager:	Lupe Carrasco			P.O. #:					-	- 1	
Address: 2208 V	2208 West Main			Company:	COG Operating LLC	ting LLC					
City: Artesia	State: NM	Zip	88210	Attn:	Robert McNeill	le iii					
Phone #:	(575) 748-6940 Fax #:		and the first of t	Address:	600 W Illinois	inois					
Project #:	Project Owner	97.		City:	Midland						
Project Name: Mi	Miranda Federal #13			State: TX	Zip: 79701						
Project Location:	Myrican medical (Myrican)		P	*	(432) 221-0388	Many infection destroy—still the trademine secures and					
Sampler Name:	Lupe Carrasco										
200				FdX #:							
FOR LAB USE ONLY			MATRIX	PRESERV	SAMPLING	ดี					
Lab I.D. #500033	Sample I.D.	# CONTAINERS GROUNDWATER	WASTEWATER SOIL OIL SLUDGE	OTHER ACID/BASE ICE / COOL OTHER	DATE	TIME	BTEX	ТРН	Chloride		
	1	×			2/26/15		×	×	×		
\$ \$1-2	-2'	×			2/26/15		×	×	×		
	Ċυ	×			2/26/15		×	×	×		elemente de la company de la c
4 S2-1	-4	×			2/26/15		×	×	×	Terramona de la constanción de	
\$ 52-2	2	×			2/26/15		×	×	×	The Control of the Co	
φ S2-3'	ယ့်	×			2/26/15		×	×	×	de la constante de la constant	
PLEASE NOTE: Usbidly and Da analyses: All claims including the service. In no event shall Cardina affiliates or successors arraing out	PLEASE NOTE: Uability and Damages, Cardinal's liability and client's exchasive remody for any claim arceing whether beased in contract or tort, shall be limited to the amount paid by the client for the nanityres. All claims including those for negligence and any other cause whatsoever shall be deemed wolved unless made in writing and received by Cardinal within 30 days effor completion of the applicable service. In no event shall Cardinal be hable for incidental or consequential damages, including without dividuals, loss of use, or loss of profits incurred by Client, as subsidiaries.	r any dain arising whee deemed waived uniong without limitation, I	rether based in contract ess made in writing and business interruptions, it	or tort, shall be firnked to received by Cardinal we see of use, or lone of pri	to the amount paid than 30 days eiter o	by the client for the ompletion of the a subsidiaries	o pplicable	-			
Relinquished By:	Date:	0	d By:  Fay Result-	Owners moon any or one	Page article tense	Phone Result:		□ Yes	No.	Add'l Phone #:	

Relinquished By:

Date: Time:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)

Sample Condition
Cool Intact
Yes Yes
No No No

CHECKED BY:

-

Fax Result: REMARKS:

atrujiilo@concho.com; gmerket@concho.com



March 20, 2015

**GARRETT MERKET** 

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: MIRANDA FEDERAL #13

Enclosed are the results of analyses for samples received by the laboratory on 03/18/15 3:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accredited analytes are denoted by an asterisk (\*).

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keine

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



COG OPERATING
GARRETT MERKET
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:

03/18/2015

03/20/2015

Reported: Project Name:

MIRANDA FEDERAL #13

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

02/26/2015

Sampling Type:

Soil

Sampling Condition: Sample Received By: \*\* (See Notes)

Jodi Henson

Sample ID: S2-5 '(H500739-01)

Chloride, SM4500Cl-B Analyzed By: AP mg/kg Analyte Reporting Limit Analyzed Result Method Blank BS RPD % Recovery True Value QC Qualifier Chloride 1650 16.0 03/19/2015 ND 416 104 400 0.00

Cardinal Laboratories

\*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors airsing out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celley L. treens



### **Notes and Definitions**

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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Celeg & Keens



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:	Resource		BILL TO		- 1	
Project Manager:	11 4		P.O. #:		מואר יישור אור איישור א	
Address:			Company:			
City:	State: Zip:		Attn:			
Phone #:	Fax #:		Address:			
Project #	Project Owner:		City:			
Project Name: Minut	Federal 13		State: Zip:			
Project Location:			*			
Sampler Name:			Fax#:			
FOR LAB USE ONLY		MATRIX	PRESERV SAMPLING			
H500739	Sample I.D.	# CONTAINERS GROUNDWATER WASTEWATER SOIL OIL SLUDGE	OTHER: ACID/BASE: ICE / COOL OTHER:	TIME ST T		
52.5		*	7	4		
**PLEASE NOTE: (unbidity and Damages, Cardinal's Baokley, analyses, All chairs sections) floore for regisperce, and any service. In no event shall Castinal be fable for incoderate on anifoliates or successors arrang out of or related to the portro.	and ch	in arising whether based in contract of diversed unless made in writing and n of finiation, business interruptions, los	riod, shall be limited to the amount passcewed by Carolinal within 30 days ade is of use, or loss of profits incurred by	d by the clean for the rr completion of the applicable dient, da subcidiances,		
Relinguished By:		Date: Received By: Phone Result Fax Result Time: Remarks.	assed upon any at the above stated to	Phone Result:	No Add'i Phone #:	
Relinquished By:	Date: R	Received By:				uf-demonstrate

Sample Condition
Cool Intact
Ves 19 Yes
No 10 No

CHECKED BY:

Received By:

Sampler - UPS - Bus - Other: Delivered By: (Circle One)



March 20, 2015

**GARRETT MERKET** 

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: MIRANDA FEDERAL #13

Enclosed are the results of analyses for samples received by the laboratory on 03/18/15 15:08.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. 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 <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

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

Method EPA 552.2

Haloacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celeg D. Keene

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



COG OPERATING
GARRETT MERKET
P. O. BOX 1630
ARTESIA NM, 88210
Fax To: NONE

Received:

03/18/2015

Reported:

03/20/2015

Project Name:

MIRANDA FEDERAL #13

Project Number:

NONE GIVEN

Project Location:

NOT GIVEN

Sampling Date:

ig Date:

Soil

Sampling Type:

\*\* (See Notes)

Sampling Condition: Sample Received By:

Jodi Henson

02/26/2015

Sample ID: S2-7 '(H500740-01)

Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	960	16.0	03/19/2015	ND	416	104	400	0.00	

Cardinal Laboratories

\*=Accredited Analyte

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Celeg L. Keins



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Celey D. Keens



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Mariand, Hobbs, NM 88240 (575) 393-2326 FAX (575) 393-2476

Company Name:		LL 70	ANALYSIS REQUEST
Project Manager: 6 The Market	P.O. #:		
Address:	Company:		
City:	State: Zip: Attn:		
Phone #: Fa	Fax #: Address:		
Project #: Pro	Project Owner: City:		
Project Name: Minata Fodon 13		Zip:	
Sampler Name:	Fay #:		
FOR LAB USE ONLY			
	ERS ATER	SAMPLING	
0	(G)RAB C # CONTA GROUND WASTEW SOIL OIL SLUDGE OTHER: ACID/BAS ICE / COC OTHER:	DATE TIME	
52-7	8	* since	
TEASE NOTE: HANDA and Demons. Parties in Santa and de la			
malynes. All claims arciving those for negligibries and any other cause we worker. In no event shall Cautinal be labble for incatental or consequental infinites or surgessors around of or related to the performance of service.	analyses. All charms excluding those for regulgerize and any other cause whostocerer shall be determed where the beguld in contract or bot, shall be fermind to the amount pool by the chord for the service. In no event shall Curtivate the labbe are inclosed and consequented damages, uncluding without instances, making and received by Cardinal within 30 days after completion of the applicable, affects the curtivations, because in the contract of the completion of the applicable, affects the curtivations, because where the contract of the contract by claim, do actual affects the regulation of surveyers of the contract by claim, do actual affects the regulation of surveyers and the contract by claim, do actual affects the regulation of surveyers and the contract by claim, do actual affects the regulation of the contract by claim, do actual affects the regulation of the contract by claim, do actual affects the regulation of the contract by claim, do actual affects the regulation of the contract by claim, do actual affects the regulation of the contract by claim, do actual affects the regulation of the contract by claim, do actual affects the regulation of the regulation of the contract by claim, do actual affects the regulation of the regulation of the contract by claim, do actual affects the regulation of the	is the amount poid by the chent for the stain 30 days after completion of the applicable total mourned by clernt, as exhaudaries,	
Relinguished By: Dat	hed By:  Date:  Received By:  Time:	Phone Result: Yes No Fax Result: Yes No REMARKS:	o Add'l Phone #: o Add'l Fax #:
Relinquished By: Dat	Regemed By:		

Sampler - UPS - Bus - Other: Delivered By: (Circle One) District 1 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

Submit 1 Copy to appropriate District Office in

Form C-141

Revised August 8, 2011

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

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: Miranda Federal #13 Facility Type: Wellhead Surface Owner: Federal Mineral Owner: API No. 30-015-38052 LOCATION OF RELEASE Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line County F 09 17S 30E 1650 North 1650 West Eddy Latitude32.8518436131665 Longitude -103.980236482555 NATURE OF RELEASE Type of Release: Volume of Release: Volume Recovered: Oil and Water 20 bbls Oil; 15 bbls PW 18 bbls Oil; 10 bbls PW Source of Release: Date and Hour of Occurrence: Date and Hour of Discovery: 12/7/2014 8:30 am Nipple on tubing 12/7/2014 8:30 am Was Immediate Notice Given? If YES, To Whom? Mike Bratcher - NMOCD By Whom? Amanda Trujillo Date and Hour: 12/8/2014 3:09 PM Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes ☒ No If a Watercourse was Impacted, Describe Fully.\* Describe Cause of Problem and Remedial Action Taken.\* The release was caused by a failure in a broken ¼ nipple on the tubing of the wellhead. Vacuum trucks were dispatched to recover all standing fluid. Describe Area Affected and Cleanup Action Taken.\* This spill impacted a 40'x40' area. The portion of pasture impacted was treated with Microblaze and soapy water. 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 A Truis le Signature: Approved by Environmental Specialist: Printed Name: Amanda Trujillo Title: Senior Environmental Coordinator Approval Date: **Expiration Date:** E-mail Address: atrujillo@concho.com Conditions of Approval: Attached

Phone: 575-748-6940

Date: December 19, 2014

<sup>\*</sup> 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

\* Attach Additional Sheets If Necessary

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

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

Dr.

Form C-141

Revised August 8, 2011

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

			Rele	ease Notific	atior	and Co	rrective A	ction				
						<b>OPERA</b>	ΓOR		☐ Initia	l Report	$\boxtimes$	Final Report
Name of Co							bert McNeill			•		
Address: 60				d TX 79701			lo. 432-230-007	77				
Facility Nan	ne: Mirano	da Federal #	.3			Facility Typ	e: Wellhead					
Surface Own	ner: Feder	al		Mineral O	wner:				API No.	30-015-3	8052	
				LOCA	TIOI	N OF REI	LEASE					
Unit Letter F	Section 09	Township 17S	Range 30E	Feet from the 1650		/South Line North	Feet from the 1650		Vest Line Vest		Count Eddy	•
			Lati	tude32.8518436	13166	5 Longitude	-103.98023648	32555				
7/07				NAT	URE	OF RELI	EASE					
Type of Relea						Volume of	Release: ; 15 bbls PW		Volume R	ecovered: l; 10 bbls P	11/	
Source of Rel						+	our of Occurrenc	e:		our of Dis		
Nipple on tub		7' 0				12/7/2014			12/7/2014	8:30 am		
Was Immedia	ite Notice (		Yes	No 🗌 Not Re	quired	If YES, To Mike Brate	whom? her – NMOCD					
	Amanda T						our: 12/8/2014 3:					
Was a Watero	ourse Read	hed?	Yes 🗵	No		If YES, Vo	lume Impacting t	he Wate	rcourse.			
If a Watercou	rse was Im	pacted, Descri	be Fully.*	1								
Describe Cau The release standing flui	was cause			n Taken.* ken ¼ nipple on	the tub	oing of the w	ellhead. Vacuu	m truck	s were dis	patched to	recov	er all
Describe Area	a Affected :	and Cleanup A	ction Tak	en.*								
	possible co			of pasture impacte lease and presente								
regulations al public health should their o	l operators or the envir perations h ment. In a	are required to ronment. The ave failed to a ddition, NMO	report an acceptanc dequately CD accep	is true and compl d/or file certain re e of a C-141 repor investigate and re tance of a C-141 r	lease no rt by the emediate	otifications ar e NMOCD ma e contamination	nd perform correct arked as "Final Re on that pose a thre	tive acti eport" de eat to gr	ons for releades not relie ound water,	ases which we the oper surface wa	may en ator of ter, hur	danger liability nan health
S:							OIL CONS	<u>SERV</u>	ATION 1	DIVISIO	<u>N</u>	
Signature	Som	- au	see			Approved by	Environmental S <sub>1</sub>	oecialist	•			
Printed Name	: Lupe Cai	rasco										
Title: Environ	mental Co	ordinator				Approval Dat	e:	F	Expiration D	Pate:		
E-mail Addre	ss: gcarrasc	co@concho.co	<u>m</u>			Conditions of	Approval:			Attached		
Date: March	n 25, 2015		Phone:	575-748-6940								