

Closure Report

APPROVED

Site Description

Site Name:	Pan Head Fee #21H
Company:	COG Operating LLC
Legal Description:	U/L D, Section 11, T17S, R32E
County:	Lea County, NM
GPS Coordinates:	N 32.12498° W 104.10342°

Release Data

Date of Release:	04/03/2016
Type of Release:	Oil
Source of Release:	Well head leak
Volume of Release:	25 bbls
Volume Recovered:	24 bbls

Remediation Specifications

Remediation Parameters:	It was decided by COG personnel, BBC personnel, and NMOCD, that remediation was unnecessary due to the fact that the samples were all clean.	
Remediation Activities:	Not performed	
Plan Sent to OCD:	n/a	n/a
OCD Approval of Plan:	n/a	n/a
Plan Sent to BLM:	n/a	n/a
BLM Approval of Plan:	n/a	n/a

Supporting Documentation

Initial C-141	Signed 04/14/2016
Final C-141	Signed 08/08/2016
Site Diagram	April 2016
Groundwater Plot	125'
TOPO Maps	June 2016
Lab Summary	05/20/2016
Lab Analysis	05/20/2016
Correspondence	None, meeting resulted in no plan due to clean samples

Request for Closure

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

Cliff Brunson, President of BBC International Inc.

08/12/2016

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: PAN HEAD FEE #021H	Facility Type: Battery

Surface Owner:	Mineral Owner: Fee	API No. 30-025-40886
----------------	--------------------	----------------------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	11	17S	32E	330	North	330	West	Lea

Latitude 32.8554306 Longitude -103.7446976

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 25 bbls	Volume Recovered: 24 bbls
Source of Release: Wellhead	Date and Hour of Occurrence: 4/3/2016 9:00 am	Date and Hour of Discovery: 4/3/2016 9:00 am
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? Jaime Keyes - NMOCD	
By Whom? Robert Grubbs Jr.	Date and Hour: 4/4/2016 6:55 PM	
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.*

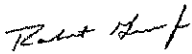
Describe Cause of Problem and Remedial Action Taken.*

This release was caused by a broken chemical line the pumping tee off the wellhead. Vacuum trucks were dispatched to recover standing fluid.

Describe Area Affected and Cleanup Action Taken.*

This release occurred at the wellhead and stayed on location. 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.

Signature: 	OIL CONSERVATION DIVISION		
Printed Name: Robert Grubbs Jr.	Approved by Environmental Specialist:		
Title: Senior Environmental Coordinator	Approval Date:	Expiration Date:	
E-mail Address: rgrubbs@concho.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: April 14, 2016	Phone: 432-683-7443		

* 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

Form C-141
Revised August 8, 2011

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

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

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: Pan Head Fee #021H	Facility Type: Battery	
Surface Owner:	Mineral Owner: Fee	API No. 30-025-40886

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	11	17S	32E	330	North	330	West	Lea County, NM

Latitude N 32.12498° Longitude W 104.10342°

NATURE OF RELEASE

Type of Release: Oil	Volume of Release: 25 bbls	Volume Recovered: 24 bbls
Source of Release: Well head	Date and Hour of Occurrence 04/03/2016 @ 9:00 am	Date and Hour of Discovery 04/03/2016 @ 9:00 am
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Jamie Keyes-NMOCD	
By Whom? Robert Grubbs Jr., COG Operating	Date and Hour: 04/04/2016 @ 6:55 pm	
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 a broken chemical line the pumping tee off the wellhead. Vacuum trucks were dispatched to recover the standing fluid. They recovered 24 bbls.

Describe Area Affected and Cleanup Action Taken.*

This release occurred at the well head and stayed on location. The site was sampled and the analytical data was reviewed in a meeting with Jamie Keyes of NMOCD. It was determined at that time that the spill for this site should be closed.

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:

Printed Name: Robert Grubbs

Approved by Environmental Specialist:

Title: Senior Environmental Coordinator

Approval Date: 08/17/2016

Expiration Date: ///

E-mail Address: rgrubbs@concho.com

Conditions of Approval:

Attached ☐

Date: August 8, 2016

Phone: (432) 683-7443

///

pTO1424538405

* Attach Additional Sheets If Necessary

30-025-40886 Pan Head Fee #021H

D-11-17S-32E 300 FNL 330 FWL
32.8554306, -103.7446976

Legend

- Area of Impact
- PSP - Proposed Sampling Point

PSP 2
PSP 3 PSP 1
PSP 4



200 ft

Google earth

Groundwater Plot

Concho Pan Head Fee #21H

County
Lea

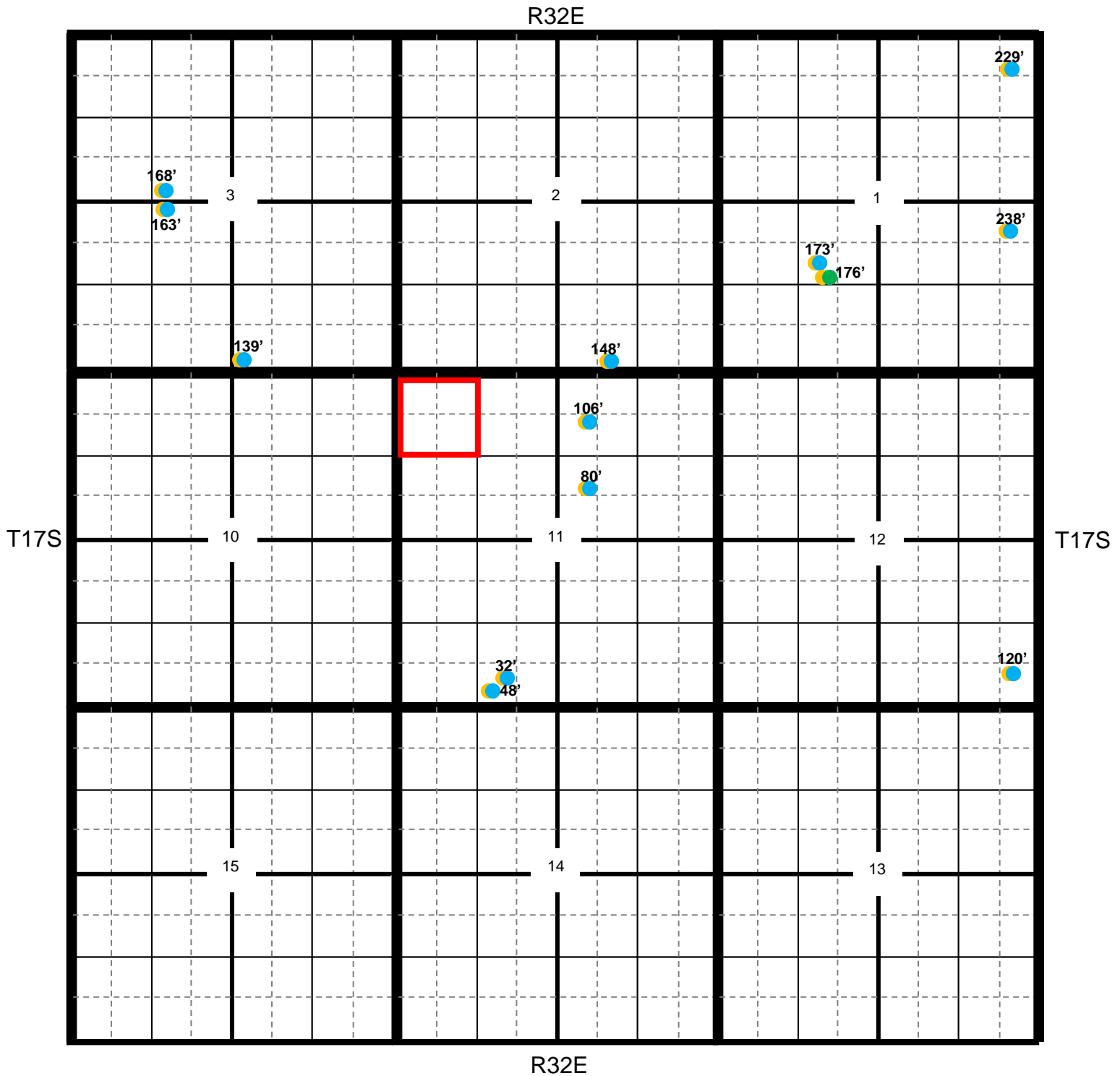
Unit Letter
D

Section
11

Township
17S

Range
32E

Trend Map 125'



★ Location

● OCD

● USGS

● SEO

● All Databases

Concho Pan Head Fee #21H

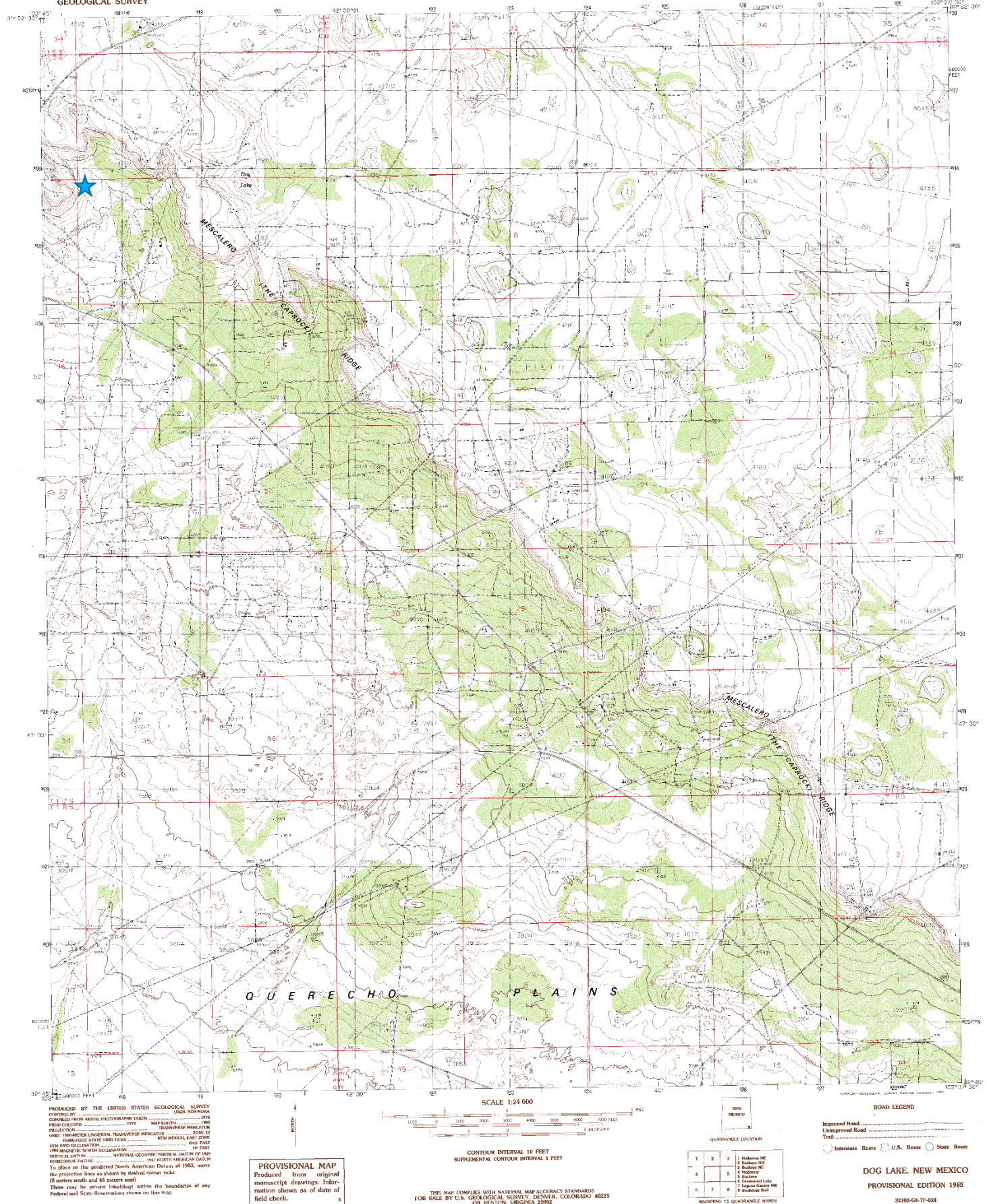
County	Unit Letter	Section	Township	Range
Lea	D	11	17S	32E

Trend Map 125'



Pan Head Fee #21

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



Laboratory Analytical Results Summary
Pan Head Fee #21H

		Sample	SP1 @ 1'	SP1 @ 2'	SP1 @ 3'	SP1 @ 4'
Analyte	Method	Date	5/20/16	5/20/16	5/20/16	5/20/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample	SP2 @ 1'	SP2 @ 2'	SP2 @ 3'	SP2 @ 4'
Analyte	Method	Date	5/20/16	5/20/16	5/20/16	5/20/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample	SP3 @ 1'	SP3 @ 2'	SP3 @ 3'	SP3 @ 4'
Analyte	Method	Date	5/20/16	5/20/16	5/20/16	5/20/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		15.6	<10.0	<10.0	<10.0

		Sample	SP4 @ 1'	SP4 @ 2'	SP4 @ 3'	SP4 @ 4'
Analyte	Method	Date	5/20/16	5/20/16	5/20/16	5/20/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0

		Sample	SP5 @ 1'	SP5 @ 2'	SP5 @ 3'	SP5 @ 4'
Analyte	Method	Date	5/20/16	5/20/16	5/20/16	5/20/16
			mg/Kg	mg/Kg	mg/Kg	mg/Kg
Benzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Toluene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Ethylbenzene	BTEX 8021B		<0.050	<0.050	<0.050	<0.050
Total Xylenes	BTEX 8021B		<0.150	<0.150	<0.150	<0.150
Total BTEX	BTEX 8021B		<0.300	<0.300	<0.300	<0.300
GRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0
DRO	TPH 8015M		<10.0	<10.0	<10.0	<10.0



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

June 06, 2016

DAKOTA NEEL

COG OPERATING

P. O. BOX 1630

ARTESIA, NM 88210

RE: PANHEAD FEE #21H

Enclosed are the results of analyses for samples received by the laboratory on 06/01/16 11:00.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-15-7. 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: 06/01/2016
Reported: 06/06/2016
Project Name: PANHEAD FEE #21H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1 - 1' (H601193-01)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.6 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885		
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711		

Surrogate: 1-Chlorooctane 62.4 % 35-147

Surrogate: 1-Chlorooctadecane 82.3 % 28-171

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 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.



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: 06/01/2016
Reported: 06/06/2016
Project Name: PANHEAD FEE #21H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1 - 2' (H601193-02)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	

Surrogate: 1-Chlorooctane 62.9 % 35-147

Surrogate: 1-Chlorooctadecane 82.7 % 28-171

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 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.



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: 06/01/2016
Reported: 06/06/2016
Project Name: PANHEAD FEE #21H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1 - 3' (H601193-03)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	

Surrogate: 1-Chlorooctane 64.1 % 35-147

Surrogate: 1-Chlorooctadecane 81.5 % 28-171

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 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.



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: 06/01/2016
Reported: 06/06/2016
Project Name: PANHEAD FEE #21H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S1 - 4' (H601193-04)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	

Surrogate: 1-Chlorooctane 57.2 % 35-147

Surrogate: 1-Chlorooctadecane 73.3 % 28-171

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 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.



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: 06/01/2016
Reported: 06/06/2016
Project Name: PANHEAD FEE #21H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2 - 1' (H601193-05)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	

Surrogate: 1-Chlorooctane 63.4 % 35-147

Surrogate: 1-Chlorooctadecane 79.7 % 28-171

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 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.



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: 06/01/2016
Reported: 06/06/2016
Project Name: PANHEAD FEE #21H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2 - 2' (H601193-06)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	

Surrogate: 1-Chlorooctane 65.7 % 35-147

Surrogate: 1-Chlorooctadecane 85.3 % 28-171

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 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.



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: 06/01/2016
Reported: 06/06/2016
Project Name: PANHEAD FEE #21H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2 - 3' (H601193-07)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	

Surrogate: 1-Chlorooctane 53.7 % 35-147

Surrogate: 1-Chlorooctadecane 73.4 % 28-171

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 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.



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: 06/01/2016
Reported: 06/06/2016
Project Name: PANHEAD FEE #21H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S2 - 4' (H601193-08)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	

Surrogate: 1-Chlorooctane 62.4 % 35-147

Surrogate: 1-Chlorooctadecane 76.3 % 28-171

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 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.



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: 06/01/2016
 Reported: 06/06/2016
 Project Name: PANHEAD FEE #21H
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 05/20/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S3 - 1' (H601193-09)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.5 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	15.6	10.0	06/02/2016	ND	206	103	200	0.711	

Surrogate: 1-Chlorooctane 62.8 % 35-147

Surrogate: 1-Chlorooctadecane 82.0 % 28-171

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 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.



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: 06/01/2016
 Reported: 06/06/2016
 Project Name: PANHEAD FEE #21H
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 05/20/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S3 - 2' (H601193-10)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	

Surrogate: 1-Chlorooctane 58.9 % 35-147

Surrogate: 1-Chlorooctadecane 75.6 % 28-171

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 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.



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: 06/01/2016
 Reported: 06/06/2016
 Project Name: PANHEAD FEE #21H
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 05/20/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S3 - 3' (H601193-11)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 98.7 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	

Surrogate: 1-Chlorooctane 62.3 % 35-147

Surrogate: 1-Chlorooctadecane 84.3 % 28-171

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 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.



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: 06/01/2016
Reported: 06/06/2016
Project Name: PANHEAD FEE #21H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S3 - 4' (H601193-12)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	

Surrogate: 1-Chlorooctane 60.7 % 35-147

Surrogate: 1-Chlorooctadecane 78.1 % 28-171

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 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.



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: 06/01/2016
Reported: 06/06/2016
Project Name: PANHEAD FEE #21H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S4 - 1' (H601193-13)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	

Surrogate: 1-Chlorooctane 45.0 % 35-147

Surrogate: 1-Chlorooctadecane 62.0 % 28-171

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 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.



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: 06/01/2016
Reported: 06/06/2016
Project Name: PANHEAD FEE #21H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S4 - 2' (H601193-14)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636		
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13		
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02		
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809		
Total BTEX	<0.300	0.300	06/02/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/03/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/03/2016	ND	206	103	200	0.711	

Surrogate: 1-Chlorooctane 64.0 % 35-147

Surrogate: 1-Chlorooctadecane 76.3 % 28-171

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 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.



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: 06/01/2016
Reported: 06/06/2016
Project Name: PANHEAD FEE #21H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S4 - 3' (H601193-15)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 99.7 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	

Surrogate: 1-Chlorooctane 56.8 % 35-147

Surrogate: 1-Chlorooctadecane 75.1 % 28-171

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 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.



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: 06/01/2016
Reported: 06/06/2016
Project Name: PANHEAD FEE #21H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S4 - 4' (H601193-16)

BTEx 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	

Surrogate: 1-Chlorooctane 59.8 % 35-147

Surrogate: 1-Chlorooctadecane 81.2 % 28-171

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 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.



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: 06/01/2016
 Reported: 06/06/2016
 Project Name: PANHEAD FEE #21H
 Project Number: NONE GIVEN
 Project Location: NOT GIVEN

 Sampling Date: 05/20/2016
 Sampling Type: Soil
 Sampling Condition: Cool & Intact
 Sample Received By: Jodi Henson

Sample ID: S5 - 1' (H601193-17)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 102 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	

Surrogate: 1-Chlorooctane 61.6 % 35-147

Surrogate: 1-Chlorooctadecane 81.9 % 28-171

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 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.



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: 06/01/2016
Reported: 06/06/2016
Project Name: PANHEAD FEE #21H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S5 - 2' (H601193-18)

BTEx 8021B		mg/kg		Analyzed By: CK						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636		
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13		
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02		
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809		
Total BTEX	<0.300	0.300	06/02/2016	ND						

Surrogate: 4-Bromofluorobenzene (PID) 100 % 73.6-140

TPH 8015M			mg/kg							
			Analyzed By: CK							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885		
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711		

Surrogate: 1-Chlorooctane 60.0 % 35-147

Surrogate: 1-Chlorooctadecane 80.6 % 28-171

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 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.



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: 06/01/2016
Reported: 06/06/2016
Project Name: PANHEAD FEE #21H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S5 - 3' (H601193-19)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 97.8 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	

Surrogate: 1-Chlorooctane 47.4 % 35-147

Surrogate: 1-Chlorooctadecane 63.6 % 28-171

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 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.



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: 06/01/2016
Reported: 06/06/2016
Project Name: PANHEAD FEE #21H
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 05/20/2016
Sampling Type: Soil
Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

Sample ID: S5 - 4' (H601193-20)

BTEX 8021B		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/02/2016	ND	1.89	94.7	2.00	0.636	
Toluene*	<0.050	0.050	06/02/2016	ND	1.92	96.1	2.00	1.13	
Ethylbenzene*	<0.050	0.050	06/02/2016	ND	1.74	87.2	2.00	2.02	
Total Xylenes*	<0.150	0.150	06/02/2016	ND	5.53	92.2	6.00	0.809	
Total BTEX	<0.300	0.300	06/02/2016	ND					

Surrogate: 4-Bromofluorobenzene (PID) 101 % 73.6-140

TPH 8015M		mg/kg		Analyzed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/02/2016	ND	199	99.3	200	0.885	
DRO >C10-C28	<10.0	10.0	06/02/2016	ND	206	103	200	0.711	

Surrogate: 1-Chlorooctane 57.7 % 35-147

Surrogate: 1-Chlorooctadecane 79.0 % 28-171

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 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.



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.
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

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 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.



Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: COG Operating LLC

Project Manager: Dakota Neel

Address: 2208 West Main

City: Artesia State: NM Zip: 88210

Phone #: (575) 748-6930 Fax #:

Project #: Project Owner:

Project Name: PANHEAD FEE #21h

Project Location:

Sampler Name: Dakota Neel

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: COG Operating LLC

Attn: Robert McNeill

Address: 600 W Illinois

City: Midland

State: TX Zip: 79701

Phone #: (432) 221-0388

Fax #:

Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX					PRESERV.	SAMPLING										
				GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE			ACID/BASE:	ICE / COOL	OTHER :	DATE	TIME	BTEX	TPH	Chloride		
HL6D1193	S2-1'													5/20/16	8:00 AM	X	X			
	S2-2'													5/20/16	8:00 AM	X	X			
	S2-3'													5/20/16	8:00 AM	X	X			
	S2-4'													5/20/16	8:00 AM	X	X			

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 the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date: 5/11/16
Time: 11:00

Received By:

Dakota Neel

Relinquished By:

Date:

Time:

Received By:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

CHECKED BY:

Cool Intact

Yes

No

Yes

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

No

Phone Result: ☐ Yes ☐ No Add'l Phone #:
Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS:

dhneel2@concho.com
lcarraasco@concho.com
atruillo@concho.com

5. Please fax written changes to 575-393-2476



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: COG Operating LLC

Project Manager: Dakota Neel

Address: 2208 West Main

City: Artesia State: NM Zip: 88210

Phone #: (575) 748-6930 Fax #:

Project #: Project Owner:

Project Name: PANHEAD FEE #21h

Project Location:

Sampler Name: Dakota Neel

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: COG Operating LLC

Attn: Robert McNeill

Address: 600 W Illinois

City: Midland

State: TX Zip: 79701

Phone #: (432) 221-0388

Fax #:

FOR LAB USE ONLY

PRESERV:

SAMPLING

Lab I.D. Sample I.D.

Handwritten: H601193

Handwritten: 9

Handwritten: 10

Handwritten: 11

Handwritten: 12

(G)RAB OR (C)OMP.

CONTAINERS

MATRIX: GROUNDWATER, WASTEWATER, SOIL, OIL, SLUDGE, OTHER:

ACID/BASE: ICE / COOL, OTHER:

DATE TIME

BTEX, TPH, Chloride

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 the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date: 6/1/16 Received By:

Time: 11:00 AM

Date: Received By:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition: Cool Intact

Yes No

CHECKED BY: (Initials)

Handwritten: [Signature]

Phone Result: Yes No Add'l Phone #:

Fax Result: Yes No Add'l Fax #:

REMARKS:

Handwritten: dneel2@concho.com

Handwritten: lcarasco@concho.com

Handwritten: atruillo@concho.com

5. Please fax written changes to 575-393-2476



CARDINAL
Laboratories

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: COG Operating LLC

Project Manager: Dakota Neel

Address: 2208 West Main

City: Artesia

Phone #: (575) 748-6930

Project #:

Project Name: PANHEAD FEE #21h

Project Location:

Sampler Name: Dakota Neel

FOR LAB USE ONLY

Lab I.D.

Sample I.D.

H60193

13
14
15
16

S4-1'

S4-2'

S4-3'

S4-4'

(G)RAB OR (C)OMP.

CONTAINERS

GROUNDWATER

WASTEWATER

SOIL

OIL

SLUDGE

OTHER :

ACID/BASE:

ICE / COOL

OTHER :

DATE

TIME

BTEX

TPH

Chloride

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: COG Operating LLC

Attn: Robert McNeill

Address: 600 W Illinois

City: Midland

State: TX Zip: 79701

Phone #: (432) 221-0388

Fax #:

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

CHECKED BY:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:

REMARKS:

Yes

No

Add'l Phone #:

Add'l Fax #:

Phone Result:

Fax Result:



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: COG Operating LLC

Project Manager: Dakota Neel

Address: 2208 West Main

City: Artesia State: NM Zip: 88210

Phone #: (575) 748-6930 Fax #:

Project #: Project Owner:

Project Name: PANHEAD FEE #21h

Project Location:

Sampler Name: Dakota Neel

BILL TO

ANALYSIS REQUEST

P.O. #:

Company: COG Operating LLC

Attn: Robert McNeill

Address: 600 W Illinois

City: Midland

State: TX Zip: 79701

Phone #: (432) 221-0388

Fax #:

FOR LAB USE ONLY

Lab I.D. Sample I.D.

(G)RAB OR (C)OMP.
CONTAINERS
GROUNDWATER
WASTEWATER
SOIL
OIL
SLUDGE
OTHER :
ACID/BASE:
ICE / COOL
OTHER :

MATRIX

PRESERV

SAMPLING

DATE

TIME

BTEX

TPH

Chloride

17 S5-1' 5/20/16 8:00 AM X X
18 S5-2' 5/20/16 8:00 AM X X
19 S5-3' 5/20/16 8:00 AM X X
20 S5-4' 5/20/16 8:00 AM X X

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 the client for the analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable 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 services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By:

Date: 6/1/16

Time: 11:00

Received By: Heidi Munson

Date: 6/1/16

Time: 11:00

Received By: Heidi Munson

Phone Result: ☐ Yes ☐ No Add'l Phone #:

Fax Result: ☐ Yes ☐ No Add'l Fax #:

REMARKS: dneel2@concho.com
lcarrasco@concho.com
atrujillo@concho.com

Relinquished By:

Date:

Time:

Received By:

Date:

Time:

Received By:

Phone Result:

Fax Result:

REMARKS:

Delivered By: (Circle One)

Sampler - UPS - Bus - Other:

Sample Condition

Cool ☒ Intact ☒

Yes ☒ No ☐

Checked By: (Initials)

5.20

#75

5. Please fax written changes to 575-393-2476