Rose-Coss, Dylan H, EMNRD

From:	Raymond Taylor <raymond@loboservicesconsulting.com></raymond@loboservicesconsulting.com>
Sent:	Friday, February 21, 2020 1:12 PM
То:	Rose-Coss, Dylan H, EMNRD
Cc:	JR Juarez Jr; kyle.waggoner@whiting.com; Tim Blair; Josue Rodriguez
Subject:	[EXT] Update - Whiting Oil and Gas - Carlson Fed A 2 TB - Lea Co, NM - Stockpile Analysis
Attachments:	Whiting Oil and Gas - Carlson Fed A 2 TB Stockpiles- Lab Data.pdf; FourthStockpileSampling.pdf

Afternoon Dylan,

We've been working on the stockpiles at the Carlson TB. The 7 stockpiles have been watered and worked with a backhoe on the pad twice and then reseampled on 2/3/20. The lab analysis report and lab data table are attached for your review. We'll be working the stockpiles again next week and resampling following that.

Thank You Sir & Let us know if you have any questions

Raymond Taylor, CSP President

M: 432-425-3098 | O: 1-800-610-6214 <u>raymond@loboserviceconsulting.com</u> <u>https://loboservicesconsulting.com</u> 214 W Texas Ave, Suite 1215, Midland, Texas 79701



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Project Id: Contact: Raymond Taylor

Project Location:

Certificate of Analysis Summary 651156

Lobo Services, Midland, TX

Project Name: Whiting Oil +Gas Carlson Fed A 2 TB



Date Received in Lab:Mon Feb-03-20 04:47 pmReport Date:06-FEB-20Project Manager:Holly Taylor

	Lab Id:	651156-0	01	651156-0	02	651156-0	03	651156-0)04	651156-0	05	651156-0)06
Analysis Requested	Field Id:	Stockpile	#1	Stockpile	#2	Stockpile	#3	Stockpile	#4	Stockpile	#5	Stockpile	#6
Analysis Requested	Depth:												
	Matrix:	SOIL	SOIL		SOIL		SOIL		SOIL		SOIL		
	Sampled:	Feb-03-20 (Feb-03-20 00:00		00:00	Feb-03-20 00:00		Feb-03-20 00:00		Feb-03-20 00:00		Feb-03-20 00:00	
TPH By SW8015 Mod	Extracted:	Feb-04-20	Feb-04-20 13:00		3:00	Feb-04-20 13:00		Feb-04-20	13:00	Feb-04-20 13:00		Feb-04-20	13:00
	Analyzed:	Feb-04-20	Feb-04-20 13:23		Feb-04-20 13:42		4:01	Feb-04-20	14:20	Feb-04-20 1	4:39	Feb-04-20	14:58
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Gasoline Range Hydrocarbons (GRO)		<49.9	49.9	<50.0	50.0	<50.0	50.0	55.8	49.9	<50.0	50.0	<50.0	50.0
Diesel Range Organics (DRO)		2110	49.9	1980	50.0	1390	50.0	3590	49.9	2280	50.0	1870	50.0
Motor Oil Range Hydrocarbons (MRO)		457	49.9	410	50.0	288	50.0	586	49.9	447	50.0	389	50.0
Total TPH		2570	49.9	2390	50.0	1680	50.0	4230	49.9	2730	50.0	2260	50.0

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

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Hely Jaylor

Holly Taylor Project Manager



Project Id: Contact: Raymond Taylor Project Location:

Certificate of Analysis Summary 651156

Lobo Services, Midland, TX



Project Name: Whiting Oil +Gas Carlson Fed A 2 TB

Date Received in Lab:Mon Feb-03-20 04:47 pmReport Date:06-FEB-20Project Manager:Holly Taylor

	Lab Id:	651156-007			
Analysis Requested	Field Id:	Stockpile #7			
Analysis Requested	Depth:				
	Matrix:	SOIL			
	Sampled:	Feb-03-20 00:00			
TPH By SW8015 Mod	Extracted:	Feb-04-20 13:00		1	
	Analyzed:	Feb-04-20 15:17			
	Units/RL:	mg/kg RL			
Gasoline Range Hydrocarbons (GRO)		<49.8 49.8			
Diesel Range Organics (DRO)		1390 49.8			
Motor Oil Range Hydrocarbons (MRO)		257 49.8			
Total TPH		1650 49.8			

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

Houston - Dallas - Midland - Tampa - Phoenix - Lubbock - San Antonio - El Paso - Atlanta - New Mexico

Hely Jaylor

Holly Taylor Project Manager

Analytical Report 651156

for Lobo Services

Project Manager: Raymond Taylor Whiting Oil +Gas Carlson Fed A 2 TB

06-FEB-20

Collected By: Client





1211 W. Florida Ave Midland TX 79701

Xenco-Houston (EPA Lab Code: TX00122): Texas (T104704215-19-30), Arizona (AZ0765), Florida (E871002-24), Louisiana (03054) Oklahoma (2019-058), North Carolina (681), Arkansas (19-037-0)

> Xenco-Dallas (EPA Lab Code: TX01468): Texas (TX104704295-19-22), Arizona (AZ0809), Arkansas (17-063-0)

Xenco-El Paso (EPA Lab Code: TX00127): Texas (T104704221-19-16) Xenco-Lubbock (EPA Lab Code: TX00139): Texas (T104704219-19-21) Xenco-Midland (EPA Lab Code: TX00158): Texas (T104704400-19-19) Xenco-Carlsbad (LELAP): Louisiana (05092) Xenco-San Antonio (EPA Lab Code: TNI02385): Texas (T104704534-19-5) Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757) Xenco-Tampa: Florida (E87429), North Carolina (483)







Project Manager: **Raymond Taylor Lobo Services** 214 W. Texas Ave. Suite 1215 Midland, TX 79701

Reference: XENCO Report No(s): 651156 Whiting Oil +Gas Carlson Fed A 2 TB Project Address:

Raymond Taylor:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number(s) 651156. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

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

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 651156 will be filed for 45 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

thely Taylor

Holly Taylor Project Manager

Recipient of the Prestigious Small Business Administration Award of Excellence in 1994. Certified and approved by numerous States and Agencies. A Small Business and Minority Status Company that delivers SERVICE and QUALITY

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



Sample Id

Stockpile #1		
Stockpile #2		
Stockpile #3		
Stockpile #4		
Stockpile #5		
Stockpile #6		
Stockpile #7		

Sample Cross Reference 651156



Lobo Services, Midland, TX

Matrix	Date Collected	Sample Depth	Lab Sample Id
S	02-03-20 00:00		651156-001
S	02-03-20 00:00		651156-002
S	02-03-20 00:00		651156-003
S	02-03-20 00:00		651156-004
S	02-03-20 00:00		651156-005
S	02-03-20 00:00		651156-006
S	02-03-20 00:00		651156-007



CASE NARRATIVE

Client Name: Lobo Services Project Name: Whiting Oil +Gas Carlson Fed A 2 TB

Project ID: Work Order Number(s): 651156
 Report Date:
 06-FEB-20

 Date Received:
 02/03/2020

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None





Lobo Services, Midland, TX

Sample Id: Stockpile #1		Matrix:	Soil]	Date Received:02.	03.20 16.47	7		
Lab Sample Id: 651156-001		Date Collect	Date Collected: 02.03.20 00.00						
Analytical Method: TPH By SW801	15 Mod]	Prep Method: SW	8015P			
Tech: DVM				Q	% Moisture:				
Analyst: ARM		Date Prep:	02.04.20 13.00]	Basis: We	t Weight			
Seq Number: 3115596									
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil		
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.9	49.9	mg/kg	02.04.20 13.23	U	1		
Diesel Range Organics (DRO)	C10C28DRO	2110	49.9	mg/kg	02.04.20 13.23		1		
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	457	49.9	mg/kg	02.04.20 13.23		1		

Total TPH	PHC635	2570	49.9		mg/kg	02.04.20 13.23		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	76	%	70-135	02.04.20 13.23		
o-Terphenyl		84-15-1	93	%	70-135	02.04.20 13.23		





Lobo Services, Midland, TX

Sample Id: Stockpile #2		Matrix:	Soil]	Date Received:02.	03.20 16.4	.7
Lab Sample Id: 651156-002		Date Coll	ected: 02.03.20 00.00				
Analytical Method: TPH By SW80	15 Mod]	Prep Method: SW	/8015P	
Tech: DVM					% Moisture:		
Analyst: ARM		Date Prep	: 02.04.20 13.00		Basis: We	t Weight	
Seq Number: 3115596							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.04.20 13.42	U	1
Diesel Range Organics (DRO)	C10C28DRO	1980	50.0	mg/kg	02.04.20 13.42		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	410	50.0	mg/kg	02.04.20 13.42		1
Total TPH	PHC635	2390	50.0	mg/kg	02.04.20 13.42		1

Total TP	H	PHC055	2390	50.0		mg/kg	02.04.20 15.42		
Sur	rogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Cl	hlorooctane		111-85-3	77	%	70-135	02.04.20 13.42		
o-Te	erphenyl		84-15-1	91	%	70-135	02.04.20 13.42		





Lobo Services, Midland, TX

Sample Id: Stockpile #3		Matrix:	Soil]	Date Received:02.	03.20 16.4	7
Lab Sample Id: 651156-003		Date Colle	ected: 02.03.20 00.00				
Analytical Method: TPH By SW80	15 Mod]	Prep Method: SW	/8015P	
Tech: DVM					% Moisture:		
Analyst: ARM		Date Prep	: 02.04.20 13.00	1	Basis: We	t Weight	
Seq Number: 3115596							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.04.20 14.01	U	1
Diesel Range Organics (DRO)	C10C28DRO	1390	50.0	mg/kg	02.04.20 14.01		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	288	50.0	mg/kg	02.04.20 14.01		1
Total TPH	PHC635	1680	50.0	mø/kø	02.04.20.14.01		1

I Uta		1110055	1000	50.0		mg/ Kg	02.04.20 14.01		
	Surrogate		Cas Number	% Recoverv	Units	Limits	Analysis Date	Flag	
	1-Chlorooctane		111-85-3	81	%	70-135	02.04.20 14.01		
	o-Terphenyl		84-15-1	93	%	70-135	02.04.20 14.01		





Lobo Services, Midland, TX

Sample Id: Stockpi	le #4	Matrix:	Soil	Ε	Date Received:02.	03.20 16.47	
Lab Sample Id: 651156	-004	Date Collect	ed: 02.03.20 00.00				
Analytical Method: TP	H By SW8015 Mod			P	rep Method: SW	/8015P	
Tech: DVM				9	6 Moisture:		
Analyst: ARM		Date Prep:	02.04.20 13.00	E	Basis: We	t Weight	
Seq Number: 3115596	i						
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocar	bons (GRO) PHC610	55.8	49.9	mg/kg	02.04.20 14.20		1
Diesel Range Organics (D	RO) C10C28DRO	3590	49.9	mg/kg	02.04.20 14.20		1
Motor Oil Range Hydrocarbo	ns (MRO) PHCG2835	586	49.9	mg/kg	02.04.20 14.20		1

Total TPH	PHC635	4230	49.9		mg/kg	02.04.20 14.20		1
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	87	%	70-135	02.04.20 14.20		
o-Terphenyl		84-15-1	109	%	70-135	02.04.20 14.20		





Lobo Services, Midland, TX

Sample Id: Stockpile #5		Matrix:	Soil]	Date Received:02.	03.20 16.4	.7
Lab Sample Id: 651156-005		Date Colle	ected: 02.03.20 00.00				
Analytical Method: TPH By SW80	15 Mod]	Prep Method: SW	8015P	
Tech: DVM					% Moisture:		
Analyst: ARM		Date Prep	: 02.04.20 13.00]	Basis: We	t Weight	
Seq Number: 3115596							
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.04.20 14.39	U	1
Diesel Range Organics (DRO)	C10C28DRO	2280	50.0	mg/kg	02.04.20 14.39		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	447	50.0	mg/kg	02.04.20 14.39		1
Total TPH	PHC635	2730	50.0	mo/ko	02 04 20 14 39		1

i otari i i		THEODO	2750	50.0		mg/ kg	02.01.2011.39		
Su	rrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-0	Chlorooctane		111-85-3	73	%	70-135	02.04.20 14.39	_	
o-7	Ferphenyl		84-15-1	91	%	70-135	02.04.20 14.39		





Lobo Services, Midland, TX

Sample Id:	Stockpile #6		Matrix:	Soil]	Date Received:02.0	03.20 16.4	7
Lab Sample Id:	651156-006		Date Collec	eted: 02.03.20 00.00				
Analytical Met	hod: TPH By SW8015	Mod]	Prep Method: SW	8015P	
Tech:	DVM				Q	% Moisture:		
Analyst:	ARM		Date Prep:	02.04.20 13.00]	Basis: We	t Weight	
Seq Number:	3115596							
Parameter		Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range H	lydrocarbons (GRO)	PHC610	<50.0	50.0	mg/kg	02.04.20 14.58	U	1
Diesel Range Org	ganics (DRO)	C10C28DRO	1870	50.0	mg/kg	02.04.20 14.58		1
Motor Oil Range H	ydrocarbons (MRO)	PHCG2835	389	50.0	mg/kg	02.04.20 14.58		1
Total TPH		PHC635	2260	50.0	mg/kg	02.04.20 14.58		1

Surrogate	Cas Number	% Recoverv	Units	Limits	Analysis Date	Flag
1-Chlorooctane	111-85-3	77	%	70-135	02.04.20 14.58	
o-Terphenyl	84-15-1	90	%	70-135	02.04.20 14.58	





Lobo Services, Midland, TX

Sample Id: Stockpile #7		Matrix:	Soil		Date Received:02.	03.20 16.4	7
Lab Sample Id: 651156-007		Date Colle	ected: 02.03.20 00.00				
Analytical Method: TPH By SW80	15 Mod				Prep Method: SW	/8015P	
Tech: DVM					% Moisture:		
Analyst: ARM		Date Prep:	02.04.20 13.00		Basis: We	t Weight	
Seq Number: 3115596		-					
Parameter	Cas Number	Result	RL	Units	Analysis Date	Flag	Dil
Gasoline Range Hydrocarbons (GRO)	PHC610	<49.8	49.8	mg/kg	02.04.20 15.17	U	1
Diesel Range Organics (DRO)	C10C28DRO	1390	49.8	mg/kg	02.04.20 15.17		1
Motor Oil Range Hydrocarbons (MRO)	PHCG2835	257	49.8	mg/kg	02.04.20 15.17		1
Total TPH	PHC635	1650	49.8	mg/kg	02.04.20 15.17		1

Total TPH	PHC055	1050	49.8		mg/kg	02.04.20 13.17		
Surrogate		Cas Number	% Recovery	Units	Limits	Analysis Date	Flag	
1-Chlorooctane		111-85-3	73	%	70-135	02.04.20 15.17		
o-Terphenyl		84-15-1	88	%	70-135	02.04.20 15.17		



Flagging Criteria



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

SMP Clie	nt Sample	BLK	Method Blank	
BKS/LCS	Blank Spike/Laboratory Control Sample	BKSD/LCSD	Blank Spike Duplicate/Laboration	atory Control Sample Duplicate
MD/SD	Method Duplicate/Sample Duplicate	MS	Matrix Spike	MSD: Matrix Spike Duplicate

+ NELAC certification not offered for this compound.

* (Next to analyte name or method description) = Outside XENCO's scope of NELAC accreditation



QC Summary 651156

Lobo Services

Whiting Oil +Gas Carlson Fed A 2 TB

Analytical Method:	TPH By S	W8015 M	od						I	Prep Method	: SW	8015P	
Seq Number:	3115596				Matrix:	Solid				Date Prep	: 02.	04.20	
MB Sample Id:	7695964-1-	-BLK		LCS Sar	nple Id:	7695964-	1-BKS		LCS	SD Sample I	d: 769	5964-1-BSD	
Parameter		MB Result	Spike Amount	LCS Result	LCS %Rec	LCSD Result	LCSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ons (GRO)	<15.0	1000	873	87	862	86	70-135	1	20	mg/kg	02.04.20 11:28	
Diesel Range Organics ((DRO)	<15.0	1000	952	95	967	97	70-135	2	20	mg/kg	02.04.20 11:28	
Surrogate		MB %Rec	MB Flag	L %	CS Rec	LCS Flag	LCSI %Re) LCS c Flag	D 1 g	Limits	Units	Analysis Date	
1-Chlorooctane		78		1	01		103		7	0-135	%	02.04.20 11:28	
o-Terphenyl		79		Ģ	96		88		7	0-135	%	02.04.20 11:28	

Analytical Method:	TPH By SW8015 Mod			Prep Method:	SW8	3015P	
Seq Number:	3115596	Matrix:	Solid	Date Prep:	02.0	4.20	
		MB Sample Id:	7695964-1-BLK				
Parameter		MB Result		τ	J nits	Analysis Date	Flag
Motor Oil Range Hydrocart	oons (MRO)	<50.0		m	ng/kg	02.04.20 10:51	

Analytical Method:	TPH By SW	78015 M	od						Р	rep Method	l: SW	8015P	
Seq Number:	3115596				Matrix:	Soil				Date Prep	o: 02.0	04.20	
Parent Sample Id:	651190-002			MS San	nple Id:	651190-00	02 S		MS	D Sample I	d: 651	190-002 SD	
Parameter		Parent Result	Spike Amount	MS Result	MS %Rec	MSD Result	MSD %Rec	Limits	%RPD	RPD Limit	Units	Analysis Date	Flag
Gasoline Range Hydrocarbo	ns (GRO)	<15.0	997	884	89	999	100	70-135	12	20	mg/kg	02.04.20 12:26	
Diesel Range Organics (I	DRO)	273	997	1070	80	1120	85	70-135	5	20	mg/kg	02.04.20 12:26	
Surrogate				N %	AS Rec	MS Flag	MSD %Ree	MSD c Flag		imits	Units	Analysis Date	
1-Chlorooctane				1	00		113		7	0-135	%	02.04.20 12:26	
o-Terphenyl				ç	91		97		7	0-135	%	02.04.20 12:26	

[D] = 100*(C-A) / B RPD = 200* | (C-E) / (C+E) | [D] = 100 * (C) / [B] Log Diff. = Log(Sample Duplicate) - Log(Original Sample)

LCS = Laboratory Control Sample A = Parent Result C = MS/LCS Result E = MSD/LCSD Result MS = Matrix Spike B = Spike Added D = MSD/LCSD % Rec

Indepict Maintein Rannond Taylor Bailt (; riflened T/T U/L/C = Wind Maintein Result (; riflened Result (; riflened <thresult (;="" riflened<="" th=""> <thresult (;="" rifl<="" th=""><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th><th></th></thresult></thresult>									
Indiget Manager: Particle Values Inter present Virtual Values Vir	-		2	. 00/9		A CONT			
Inside: Ansmon Title Bit is it enterine Title Outputs of Nume: Vich 4 = 7 Address: 21:W1 Trans Net Sale 21: Address: Address: Forgan: USTR01	e) Date/Time	e) Received by: (Signature	Relinquished by: (Signatur	Date/Time	r: (Signature)	Received by	ature)	luished by: (Sigr	Relin
Englistic Manager: Ramment Tarlor Ball b: p minered T/L U/L/C = Wurkt Order Formatis Germanny Mane: Wurkt Order Formatis Germanns Sample Germanns Mane: Sample Germanns Mane: Germann Mane: Mane:		to circumstances beyond the control d unless previously negotiated.	rred by the client if such losses are due ot analyzed. These terms will be enforce	ubmitted to Xenco, but no	a charge of \$5 for each sample s	to each project and	75.00 will be applied	minimum charge of (of Xenco, /
Projeci Manager: Raymond Taylor Bill tr. or demon T.K. U.K./ 2 Work Order Commany (many Name) Work Order Name Work Order Name Work Order Name Pojeck Name 4/2:4/2:5:008 Embilition Rush: 3/6/1 R		igns standard terms and conditions	its affiliates and subcontractors. It ass	client company to Xenco,	utes a valid purchase order from	nt of samples constit	nt and relinquishmen	ature of this docume Kenco will be liable of	Notice: Sig of service.
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XENCO Laboratories



Prelogin/Nonconformance Report- Sample Log-In

Client: Lobo Services	Acceptable Temperature Range: 0 - 6 degC			
Date/ Time Received: 02/03/2020 04:47:00 PM	Air and Metal samples Acceptable Range: Ambient Temperature Measuring device used : R8			
Work Order #: 651156				
Sample Rec	eipt Checklist	Comments		
#1 *Temperature of cooler(s)?	3.6			
#2 *Shipping container in good condition?	Yes	5		
#3 *Samples received on ice?	Yes	5		
#4 *Custody Seals intact on shipping container/ cooler?	N/A			
#5 Custody Seals intact on sample bottles?	N/A			
#6*Custody Seals Signed and dated?	N/A			
#7 *Chain of Custody present?	Yes	5		
#8 Any missing/extra samples?	No			
#9 Chain of Custody signed when relinquished/ received?	Yes	5		
#10 Chain of Custody agrees with sample labels/matrix?	Yes	5		
#11 Container label(s) legible and intact?	Yes	5		
#12 Samples in proper container/ bottle?	Yes	5		
#13 Samples properly preserved?	Yes	5		
#14 Sample container(s) intact?	Yes	5		
#15 Sufficient sample amount for indicated test(s)?	Yes	5		
#16 All samples received within hold time?	Yes	6		
#17 Subcontract of sample(s)?	N/A			
#18 Water VOC samples have zero headspace?	N/A			

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

Analyst:

PH Device/Lot#:

Checklist completed by: BitMa Tal Brianna Teel Checklist reviewed by: Hely Taylor Holly Taylor

Date: 02/03/2020

Date: 02/06/2020

WHITING OIL AND GAS – CARLSON FED A 2 TB						
NMOCD Closure Criteria 51' – 100'						
Chloride 10,000 mg/kg	Total TPH 2,500 mg/kg	GRO+DRO 1,000 mg/kg	BTEX 50 mg/kg	Benzene 10 mg/kg		

Sample ID	Sample Date	Total TPH mg/kg	GRO+DRO mg/kg	BTEX mg/kg	Benzene mg/kg
Stockpile # 1	7/19/2019	7560.0	7081.0	11.70	0.0456
Stockpile # 2	7/19/2019	6520.0	6071.0	6.84	0.0550
Stockpile # 3	7/19/2019	7240.0	6785.0	15.10	0.0636
Stockpile # 4	7/19/2019	8110.0	7598.0	23.90	0.0918
Stockpile # 5	7/19/2019	8330.0	7788.0	20.20	0.0978
Stockpile # 6	7/19/2019	7260.0	6808.0	14.30	0.0532
Stockpile # 7	7/19/2019	6240.0	5850.0	18.50	0.0806
Stockpile # 1	10/2/2019	1750.0	1659.9		
Stockpile # 2	10/2/2019	1990.0	1879.9		
Stockpile # 3	10/2/2019	4010.0	3655.0		
Stockpile # 4	10/2/2019	5210.0	4785.4		
Stockpile # 5	10/2/2019	5000.0	4593.0		
Stockpile # 6	10/2/2019	2450.0	2240.5		
Stockpile # 7	10/2/2019	3150.0	2896.9		
Stockpile # 1	10/30/2019	2990.0	2660.0		
Stockpile # 2	10/30/2019	2400.0	2160.0		
Stockpile # 3	10/30/2019	2360.0	2119.9		
Stockpile # 4	10/30/2019	3580.0	3151.4		
Stockpile # 5	10/30/2019	3410.0	3046.7		
Stockpile # 6	10/30/2019	3070.0	2745.9		
Stockpile # 7	10/30/2019.	3080.0	2764.3		
Stockpile # 1	2/3/2020	2570.0	2159.9		
Stockpile # 2	2/3/2020	2390.0	2030.0		
Stockpile # 3	2/3/2020	1680.0	1440.0		
Stockpile # 4	2/3/2020	4230.0	3645.8		
Stockpile # 5	2/3/2020	2730.0	2330.0		
Stockpile # 6	2/3/2020	2260.0	1920.0		
Stockpile # 7	2/3/2020	1650.0	1439.8		