

QPQASU #24

T18S, R32E, Sec 27

API # 30-025-25618

Corrective Action Plan

Release Date: May 19, 2015

August 31, 2015

Prepared by:

Zack Thomas Environmental Representative Mewbourne Oil Company 701 S. Cecil Hobbs, NM 88240 Kellie Jones Oil Conservation Division, EMNRD E-Mail: kellie.jones@state.nm.us

RE: QPQASU #24 - Remediation Work Plan

Kellie,

Mewbourne has retained Turnco Enterprises LLC, to address environmental issues for the site detailed herein.

The site is located south of Maljamar NM, in Lea County. The leak site resulted from a hydrocarbon/produce water leak. The source of the leak was due to a stuffing box blowout. A C-141 was submitted to the NMOCD on May 20, 2015.

Site Assessment

Mewbourne has conducted a groundwater study of the area and has determined that according to the New Mexico Office of the State Engineer the average depth to groundwater for this area is 400 foot below ground surface. Therefore, no eminent danger of groundwater impact or threat to life is anticipated.

Mewbourne has also determined that the site is inside the MOA area which allows archaeological clearance by contributing to the Permian Basin Cultural Resource Mitigation Fund.

Conclusion

After careful review of the delineation soil sample data Mewbourne would like to request closure of the following Site: RP-3643 QPQASU #24

As per the approved CAP soil was removed at a depth of 2 feet throughout the entire release area and dispose of at a NMOCD approved facility. After excavation was completed, clean top soil (sandy loam) was used to backfill then reseeded with the approved BLM seed mix. Geotagged photos, final C-141, soil sample data, and disposal manifest are all attached.

Please feel free to contact me with any questions concerning this remediation closure request.

Sincerely,

3. Thomas

Zack Thomas Environmental Representative Mewbourne Oil Company 701 S. Cecil Hobbs, NM 88240 Office: (575) 393-5905 Mobile: (575) 602-2188 Fax: (575) 393-7259 Email: <u>zthomas@mewbourne.com</u> 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.

1220 S. St. Fran	cis Dr., Santa	a Fe, NM 87505	5	Sa	nta Fe	e, NM 875	05					
			Rele	ease Notific	atior	1 and Co	orrective A	ction				
						OPERA	ГOR		🗌 Initia	l Report	\boxtimes	Final Report
Name of Co	mpany: M	ewbourne C	il Compa	any		Contact: Zad	ck Thomas]
Address: PC) Box 5270	0 Hobbs NM	88241	•		Telephone N	No. 575-393-590)5				
Facility Nan	ne: QPQA	SU #24				Facility Typ	e: Producing Oi	l Well				
Surface Own	ner: BLM			Mineral C	wner:	BLM			API No	. 30-025-25	5618	1
						ION OF RELEASE						
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/West Line County				î
E	27	18S	32E	2310'	North		1980'	West		Lea		
			L	atitude 32.719	3295	Longitud	le -103.75628	3				
						OF REL	_					
Type of Relea	ase: Oil/pro	duced water					Release: estimate	ed 10	Volume R	lecovered: N	I/A]
						bbls						
Source of Rel	lease: Stuffi	ing box/well h	lead			Date and H 5-19-15	lour of Occurrence	e	Date and 5-19-15	Hour of Dise 9:00 a		
Was Immediate Notice Given?					auired	If YES, To Kellie Jone	Whom? es - NMOCD					
By Whom? Zack Thomas						Date and H		2:20 pi	m			
Was a Water							lume Impacting t					
			Yes 🛛	No								
If a Watercou	irse was Imj	pacted, Descr	ibe Fully.*	k			APPRC	VE	D			
							By OCD D	Distric	ct 1 at 9	:27 am,	Sep	09, 2015
Describe Cau	se of Proble	em and Reme	dial Action	n Taken.*								
Wall was show	• in and mu		mad aff di	a to anodustion a	matiana	hut mumine					in a stu	Con a have to
				te to production p shut. Pumping un							ing stu	ing box to
Describe Area	a Affected a	and Cleanup A	Action Tak	ken.*								
Leaked fluid	affected the	well pad surf	face aroun	d pumping unit ar	nd also r	an west of the	e pad out into the	pasture	an estimate	ed 35 yards.	Refere	ence CAP
dated August								1		2		
I hereby certin	fy that the i	nformation gi	ven above	is true and comp	lete to th	he best of my	knowledge and u	nderstar	nd that purs	uant to NM	DCD r	ules and
regulations al	l operators	are required to	o report ar	nd/or file certain r	elease n	otifications a	nd perform correc	tive acti	ions for rele	eases which	may ei	ndanger
				ce of a C-141 repo								
				investigate and rotance of a C-141								
federal, state,					report u	oes not renev	e the operator of i	responsi	Unity for C	Simpliance w	itii aliy	other
	1	Λ.					OIL CONS	SERV	ATION	DIVISIC	N	
Signature:	5.3	1/1000	2									
Signature.	\rightarrow	rurva	Nd -			Annroved by	Environmental S	naciolis	Jam	Klinger		
Printed Name	: Zack Tho	mas						pecialisi		, 		
Title: Enviror	mental Rep).				Approval Dat	09/09/2015		Expiration	Date: ///		
E-mail Addre	ss: zthomas	@mewbourn	e.com			Conditions of	Approval:			Attached		
D (0.01.1-			DI	ERE (02 2102						Attached 1RP 3643		
Date: 8-31-15		to If Nacass		e: 575-602-2188						11(1 5045		

* Attach Additional Sheets If Necessary





June 15, 2015

ZACK THOMAS MEWBOURNE OIL COMPANY P. O. BOX 5270 HOBBS, NM 88240

RE: QPQASU #24

Enclosed are the results of analyses for samples received by the laboratory on 06/09/15 10:05.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab accredited certif.html.

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

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celeg D. Keene

Celey D. Keene Lab Director/Quality Manager



MEWBOURNE OIL COMPANY ZACK THOMAS P. O. BOX 5270 HOBBS NM, 88240 Fax To: (575) 937-6252

Received:	06/09/2015	Sampling Date:	06/08/2015
Reported:	06/15/2015	Sampling Type:	Soil
Project Name:	QPQASU #24	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: S1 - 001 0' (H501476-01)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2015	ND	2.05	103	2.00	0.638	
Toluene*	<0.050	0.050	06/10/2015	ND	2.04	102	2.00	0.700	
Ethylbenzene*	<0.050	0.050	06/10/2015	ND	2.13	107	2.00	2.01	
Total Xylenes*	<0.150	0.150	06/10/2015	ND	5.81	96.9	6.00	2,27	
Total BTEX	<0.300	0.300	06/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PIE 108 % 61-154

oride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
oride	656	16.0	06/11/2015	ND	416	104	400	3.92	
TPH 8015M		/kg	Analyzed By: MS						S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
D C6-C10	<100	100	06/09/2015	ND	182	91.2	200	1.35	
0 >C10-C28	9340	100	06/09/2015	ND	194	97.2	200	1.68	
0 >C10-C28 rogate: 1-Chlorooctane	9340 99.7			ND	194	97.2	200	1.68	

Surrogate: 1-Chlorooctadecane 324 % 52.1-176

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager



MEWBOURNE OIL COMPANY ZACK THOMAS P. O. BOX 5270 HOBBS NM, 88240 Fax To: (575) 937-6252

Received:	06/09/2015	Sampling Date:	06/08/2015
Reported:	06/15/2015	Sampling Type:	Soil
Project Name:	QPQASU #24	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: S1 - 002 2' (H501476-02)

BTEX 8021B mg/kg Analyzed By: MS Analyte Result Reporting Limit Analyzed Method Blank BS True Value QC RPD % Recovery Qualifier Benzene* < 0.050 0.050 06/10/2015 ND 2.05 103 2.00 0.638 Toluene* 06/10/2015 < 0.050 0.050 ND 102 0.700 2.04 2.00 Ethylbenzene* < 0.050 06/10/2015 0.050 ND 2.13 107 2,01 2.00 Total Xylenes* 06/10/2015 < 0.150 0.150 ND 5.81 96.9 6.00 2.27 Total BTEX <0.300 0.300 06/10/2015 ND Surrogate: 4-Bromofluorobenzene (PIL 111 % 61-154 Chloride, SM4500Cl-B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/11/2015	ND	416	104	400	3.92	
TPH 8015M	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<50.0	50.0	06/09/2015	ND	182	91.2	200	1.35	
DRO >C10-C28	<50.0	50.0	06/09/2015	ND	194	97.2	200	1.68	
Surrogate: 1-Chlorooctane	83.8	47.2-15	7						
Surrogate: 1-Chlorooctadecane	118 %	6 52.1-17	6						

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Celleg Z. Keena

Celey D. Keene, Lab Director/Quality Manager



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Received:	06/09/2015	Sampling Date:	06/08/2015
Reported:	06/15/2015	Sampling Type:	Soil
Project Name:	QPQASU #24	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: S1 - 003 4' (H501476-03)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	06/10/2015	ND	2.05	103	2.00	0.638	
Toluene*	<0.050	0.050	06/10/2015	ND	2.04	102	2.00	0.700	
Ethylbenzene*	<0.050	0.050	06/10/2015	ND	2.13	1 07	2.00	2.0 1	
Total Xylenes*	<0.150	0.150	06/10/2015	ND	5.81	96.9	6.00	2,27	
Total BTEX	<0.300	0.300	06/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	110 %	61-154	1						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	96.0	16.0	06/11/2015	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
GRO C6-C10	<10.0	10.0	06/09/2015	ND	182	91.2	200	1.35	
DRO >C10-C28	<10.0	10.0	06/09/2015	ND	194	97.2	200	1.68	
Surrogate: 1-Chlorooctane	101 %	6 47.2-15	7						
Surrogate: 1-Chlorooctadecane	120 %	6 52.1-17	6						

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Celeg Z. Kerne

Celey D. Keene, Lab Director/Quality Manager



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Received:	06/09/2015	Sampling Date:	06/08/2015
Reported:	06/15/2015	Sampling Type:	Soil
Project Name:	QPQASU #24	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: S2 - 001 0' (H501476-04)

BTEX 8021B	mg/kg		Analyzed By: MS						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2015	ND	2,05	103	2.00	0.638	
Toluene*	<0.050	0.050	06/10/2015	ND	2.04	102	2.00	0.700	
Ethylbenzene*	<0.050	0.050	06/10/2015	ND	2,13	107	2.00	2.01	
Total Xylenes*	<0.150	0.150	06/10/2015	ND	5.81	96.9	6.00	2.27	
Total BTEX	<0.300	0.300	06/10/2015	ND					

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	80.0	16.0	06/11/2015	ND	416	104	400	3.92		
TPH 8015M	mg/kg		Analyzed By: MS						S-06	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<100	100	06/09/2015	ND	182	91.2	200	1.35		
DRO >C10-C28	3960	100	06/09/2015	ND	194	97.2	200	1.68		
Surrogate: 1-Chlorooctane	102	% 47.2-15	7							

Surrogate: 1-Chlorooctadecane 291 % 52.1-176

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Celez Z. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	06/09/2015	Sampling Date:	06/08/2015
Reported:	06/15/2015	Sampling Type:	Soil
Project Name:	QPQASU #24	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: S2 - 002 2' (H501476-05)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2015	ND	2.05	103	2.00	0.638	
Toluene*	<0.050	0.050	06/10/2015	ND	2.04	102	2.00	0.700	
Ethylbenzene*	<0.050	0.050	06/10/2015	ND	2.13	107	2.00	2.01	
Total Xylenes*	<0.150	0.150	06/10/2015	ND	5,81	96.9	6.00	2.27	
Total BTEX	<0.300	0.300	06/10/2015	ND					

Analyzed Dec MC

Surrogate: 4-Bromofluorobenzene (PIL 109 % 61-154

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/11/2015	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<100	100	06/09/2015	ND	182	91.2	200	1.35	
DRO >C10-C28	697	100	06/09/2015	ND	194	97.2	200	1.68	
Surrogate: 1-Chlorooctane	102	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	193	% 52.1-17	6						

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Celeg Z. Keine

Celey D. Keene, Lab Director/Quality Manager



MEWBOURNE OIL COMPANY ZACK THOMAS P. O. BOX 5270 HOBBS NM, 88240 Fax To: (575) 937-6252

Received:	06/09/2015	Sampling Date:	06/08/2015
Reported:	06/15/2015	Sampling Type:	Soil
Project Name:	QPQASU #24	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: S2 - 003 4' (H501476-06)

BTEX 8021B	mg	/kg	Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2015	ND	2.05	103	2.00	0.638	
Toluene*	<0.050	0.050	06/10/2015	ND	2,04	102	2.00	0.700	
Ethylbenzene*	<0.050	0.050	06/10/2015	ND	2,13	107	2.00	2.01	
Total Xylenes*	<0.150	0.150	06/10/2015	ND	5.81	96.9	6.00	2.27	
Total BTEX	<0.300	0.300	06/10/2015	ND					

Surrogate: 4-Bromofluorobenzene (PID 112 % 61-154

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	06/11/2015	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/09/2015	ND	182	91.2	200	1.35	
DRO >C10-C28	<10.0	10.0	06/09/2015	ND	194	97.2	200	1.68	
Surrogate: 1-Chlorooctane	98.3	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	117	% 52.1-17	6						

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Celeg Z. Keine

Celey D. Keene, Lab Director/Quality Manager



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Received:	06/09/2015	Sampling Date:	06/08/2015
Reported:	06/15/2015	Sampling Type:	Soil
Project Name:	QPQASU #24	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: S3 - 001 0' (H501476-07)

BTEX 8021B	mg/kg		Analyze	Analyzed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2015	ND	2.05	103	2.00	0.638	
Toluene*	<0.050	0.050	06/10/2015	ND	2.04	102	2.00	0.700	
Ethylbenzene*	<0.050	0.050	06/10/2015	ND	2.13	107	2.00	2.01	
Total Xylenes*	<0.150	0.150	06/10/2015	ND	5.81	96.9	6.00	2.27	
Total BTEX	<0.300	0.300	06/10/2015	ND					

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP	_				
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	80.0	16.0	06/11/2015	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/09/2015	ND	182	91.2	200	1.35	
DRO >C10-C28	<10.0	10.0	06/09/2015	ND	194	97.2	200	1.68	
Surrogate: 1-Chlorooctane	95.3	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	116	% 52.1-17	6						

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PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or bort, 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.

Celleg Z. treene

Celey D. Keene, Lab Director/Quality Manager



MEWBOURNE OIL COMPANY ZACK THOMAS P. O. BOX 5270 HOBBS NM, 88240 Fax To: (575) 937-6252

Received:	06/09/2015	Sampling Date:	06/08/2015
Reported:	06/15/2015	Sampling Type:	Soil
Project Name:	QPQASU #24	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: S3 - 002 2' (H501476-08)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2015	ND	2.05	103	2.00	0.638	
Toluene*	<0.050	0.050	06/10/2015	ND	2.04	102	2.00	0.700	
Ethylbenzene*	<0.050	0.050	06/10/2015	ND	2.13	107	2.00	2.01	
Total Xylenes*	<0.150	0.150	06/10/2015	ND	5.81	96.9	6.00	2.27	
Total BTEX	<0.300	0.300	06/10/2015	ND					

.

Surrogate: 4-Bromofluorobenzene (PIL 113 % 61-154

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	06/11/2015	ND	416	104	400	3.92	
TPH 8015M	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/09/2015	ND	182	91.2	200	1.35	
DRO >C10-C28	<10.0	10.0	06/09/2015	ND	1 94	97.2	200	1.68	
Surrogate: 1-Chlorooctane	97.7	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	116	% 52.1-17	6						

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Celeg Z. Keine

Celey D. Keene, Lab Director/Quality Manager



MEWBOURNE OIL COMPANY ZACK THOMAS P. O. BOX 5270 HOBBS NM, 88240 Fax To: (575) 937-6252

Received:	06/09/2015	Sampling Date:	06/08/2015
Reported:	06/15/2015	Sampling Type:	Soil
Project Name:	QPQASU #24	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	LEA COUNTY, NM		

Sample ID: S3 - 003 4' (H501476-09)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	06/10/2015	ND	2.05	103	2.00	0.638	
Toluene*	<0.050	0.050	06/10/2015	ND	2.04	102	2.00	0.700	
Ethylbenzene*	<0.050	0.050	06/10/2015	ND	2.13	107	2.00	2.01	
Total Xylenes*	<0.150	0.150	06/10/2015	ND	5.81	96.9	6.00	2.27	
Total BTEX	<0.300	0.300	06/10/2015	ND					
Surrogate: 4-Bromofluorobenzene (PIL	113 %	61-154							
Chloride, SM4500Cl-B	mg/kg		Analyzed By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	06/11/2015	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	06/09/2015	ND	182	91.2	200	1.35	
DRO >C10-C28	<10.0	10.0	06/09/2015	ND	194	97.2	200	1.68	
Surrogate: 1-Chlorooctane	96.3 9	47.2-15	7						
Surrogate: 1-Chlorooctadecane	113 %	6 52.1-17	6						

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Celez Ditreme

Celey D. Keene, Lab Director/Quality Manager



Notes and Definitions

S-06	The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or matrix interference's.
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.
3	Chloride by SM4500Cl-B does not require samples be received at or below 6°C
	Samples reported on an as received basis (wet) unless otherwise noted on report

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Celez Titrene

Celey D. Keene, Lab Director/Quality Manager



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240



+ Cardinal cannot accept verbal changes. Please fax written changes to (575) 3934326

Page 12 of 12



R360 Environmental Solutions, LLC Permian Basin Region

P.O. Box 3452 Hobbs, NM 88241 Invoice

Date: Invoice #:

Terms: Generator: Lease: Well: Rig: PO: Memo; Due Upon Receipt MEWBOURNE OIL CO QPQASU 24 NON-DRILLING

7/28/2015

C137933

Bill To MEWBOURNE OIL CO P O Box 5270 Hobbs, NM 88241

								201322		
ltem	Qty	Desc	Disc	Price	Amount	Ticket	Date	3rd Party #	Co. Man	Trucking Co
Contaminated Soll (RCRA Exempt)	12.00			\$20.00	\$240.00	708058	7/14/2015	NA	ZACK	JJM & SONS
Contaminated Soll (RCRA Exempt)	12.00			\$20.00	\$240.00	708093	7/14/2015	NA	ZACK THOMAS	JJM & SONS
Contaminated Soll (RCRA Exempt)	12.00			\$20.00	\$240.00	708120	7/14/2015	NA	ZACK THOMAS	JJM & SONS
Contaminated Soil (RCRA Exempt)	12.00			\$20.00	\$240.00	708255	7/15/2015	NA	ZACK	JJM & SONS
Contaminated Soll (RCRA Exempt)	12.00			\$20.00	\$240.00	708268	7/15/2015	NA	ZACK THOMAS	JJM & SONS
Contaminated Soil (RCRA Exempt)	12.00		11.1	\$20.00	\$240.00	708297	7/15/2015	NA	ZACK THOMAS	JJM & SONS
Contaminated Soli (RCRA Exempt)	12.00			\$20.00	\$240.00	708320	7/15/2015	NA	ZACK THOMAS	JJM & SONS
Contaminated Soli (RCRA Exempt)	12.00			\$20.00	\$240.00	708489	7/16/2015	NA	ZACK THOMAS	JJM & SONS
Contaminated Soil (RCRA Exempt)	12.00			\$20.00	\$240.00	708507	7/16/2015	NA	ZACK THOMAS	JJM & SONS
Contaminated Soil (RCRA Exempt)	12.00			\$20.00	\$240.00	708530	7/16/2015	NA	ZACK THOMAS	JJM & SONS
Contaminated Soil (RCRA Exempt)	12.00			\$20.00	\$240.00	708553	7/16/2015	NA	ZACK THOMAS	JJM & SONS



R360 Environmental Solutions, LLC Permian Basin Region

P.O. Box 3452 Hobbs, NM 88241

Invoice

Date:7/28/2015Invoice #:C137933

Terms: Generator: Lease: Well: Rig: PO:

Memo:

Due Upon Receipt MEWBOURNE OIL CO QPQASU 24 NON-DRILLING

Bill To MEWBOURNE OIL CO P O Box 5270 Hobbs, NM 88241 Item Qty Desc Disc	Price Amount Ticket Date 3rd Party # Co. Man	Trucking Co
Please Remit To: R360-Permian Basin Region P.O.Box 671798 Dallas, TX 75267-1798 575-393-1079 (O); 575-393-3615(F)	Subtotal: NM Sales Tax (6.8125%): Total:	\$2,640.00 \$179.85 \$2,819.85

Summary of Products & Services

Price	Quantity	Unit	Extended Price
\$20.00	132.00	vards	\$2,640.00
\$179.85	1.00	each	\$179.85
	\$20.00	\$20.00 132.00	

RB3600 ENVIRONMENTAL SOLUTIONS	Customer: MEWBOURNE OIL C Customer #: CRI4110 Ordered by: ZACK THOMAS AFE #: PO #: Manifest #: NA Manif. Date: 7/14/2015 Hauler: JJM & SONS Driver JOSE Truck # 002 Card # Job Ref #	Bid #: V Date: 7 Generator: M Generator #: Well Ser. #: 9 Well Name: 0 Well #: 2 Field: Field #:	Y00-708058 Valk-in Bid Y14/2015 AEWBOURNE OIL CO 199908 DPQASU
Facility: CRI			90
Product/ Service		Quantity Units	Ψλ
Contaminated Soil (RCRA Exemp	ot)	12.00 yards	4 .
1988 regulatory determination, the abo X RCRA Exempt: Oil Field wastes g waste. _ RCRA Non-Exempt: Oil field was characteristics established in RCRA reg amended. The following documentation _ MSDS Information _ RCRA H	esource Conservation and Recovery Act (we described waste is: enerated from oil and gas exploration and te which is non-hazardous that does not e gulations, 40 CFR 261.21-261.24 or lister on is attached to demonstrate the above-du lazardous Waste Analysis Process K R360 Repres THIS IS NOT AN	production operations and ar exceed the minimum standards thazardous waste as defined i escribed waste is non-hazardo nowledge Other (Provid entative Standards	e not mixed with non-exempt for waste hazardous by in 40 CFR, part 261, subpart D, as
	THIS IS NOT AN		
Approved By:	5	Date:	

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	RBB CONTACT SOLUTIONS	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	ZACK THOMAS	Generator #: Well Ser. #: 999908 Well Name: QPQA Well #: <u>-23</u> Field: Field #:	n Bid 015 IOURNE OIL CO SU
	Facility: CRI				Cha
	Product, Service		Quanti	ly Units	
	Contaminated Soll (RCRA Exemp	t)	12.00) yards	5
	I hereby certify that according to the Re 1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes ge waste. RCRA Non-Exempt: Oil field wast characteristics established in RCRA reg amended. The following documentatio MSDS Information RCRA He Driver/Agent Signature	ve described wa enerated from o te which is non- gulations, 40,CF n is attached to	aste is: il and gas exploration and produc hazardous that does not exceed th rR 261.21-261.24 or listed hazard demonstrate the above-described Analysis Process Knowledg	tion operations and are not not ne minimum standards for wa ous waste as defined in 40 C waste is non-hazardous. (Cl	nixed with non-exempt aste hazardous by CFR, part 261, subpart D, as heck the appropriate items):
1	Customer Approval				
		THI	S IS NOT AN INVO	DICE!	
	Approved By:		Date:		
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R3600 EN VIRONMENTAL SOLUTIONS Permian Basin	Customer: MEWBOURNE (Customer #: CRI4110 Ordered by: ZACK THOMAS AFE #: PO #: Manifest #: NA Manif. Date: 7/14/2015 Hauler: JJM & SONS Driver JOSE Truck # 02 Card # Job Ref #	Bid #:	999908	
Facility: CRI			20	
Product / Service		Quantity Units		
Contaminated Soll (RCRA Exemp	t)	12.00 yards	dia C	1
Generator Certification Statement I hereby certify that according to the Ref 1988 regulatory determination, the above \underline{X} RCRA Exempt: Oil Field wastes generated waste,	esource Conservation and Recovery			
RCRA Non-Exempt: Oil field wast characteristics established in RCRA reg amended. The following documentation MSDS Information RCRA Ha Driver/ Agent Signature	ulations, 40 CFR 261.21-261.24 or n is attached to demonstrate the ab- azardous Waste Analysis Proc	r listed hazardous waste as defined ove-described waste is non-hazard	d in 40 CFR, part 261, subpart D, as lous. (Check the appropriate items):	
Customer Approval		\mathbb{P}		
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Approved By:		Date:		
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PASES CONTRACTOR CONTR	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	ZACK THOMAS	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	999908	il CO	
Facility: CRI					14. 14.	
Product / Service		Quar	ntity Units			
Contaminated Soil (RCRA Exemp	t)	12	.00 yards		-1	
Generator Certification Statement of Wasta Status I hereby certify that according to the Resource Conservation and Recovery Act (RCRA) and the US Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: X RCRA Exempt: Oil Field wastes generated from oil and gas exploration and production operations and are not mixed with non-exempt waste.						
for Dand A						
Customer Approval						
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Approved By:		Date:			8	
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Permian Basin

Customer: MEWBOURNE OIL CO Customer #: CRI4110 Ordered by: ZACK THOMAS AFE #: PO #: Manifest #: NA Manif. Date: 7/15/2015 Hauler: JJM & SONS Hauler: Driver JOSE Truck # 02 Card # Job Ref #

Ticket #:	700-708268	5.5
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Bld #:	Walk-in Bld	
Date:	7/15/2015	e ^a
Generator:	MEWBOURNE C	DIL CO
Generator #:		•
Well Ser. #:	999908	1
Well Name:	QPQASU	
Well #:	25 20	
Field:	07	
Field #:		10
Rig:	NON-DRILLING	
County		3

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Facility: CRI

Product // Service Q	uantity Units	
Contaminated Soil (RCRA Exempt)	12.00 yards	-
Generator Certification Statement of Waste Status		
I hereby certify that according to the Resource Conservation and Recovery Act (Re	CRA) and the US Environmental Protection Agency's July	
1988 regulatory determination, the above described waste is:	54 g g	
\underline{X} RCRA Exempt: Oil Field wastes generated from oil and gas exploration and p	roduction operations and are not mixed with non-exempt	
waste.		
RCRA Non-Exempt: Oil field waste which is non-hazardous that does not exc	eed the minimum standards for waste hazardous by	
characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or listed h	azardous waste as defined in 40 CFR, part 261, subpart D, as	
amended. The following documentation is attached to demonstrate the above-desc		
MSDS InformationRCRA Hazardous Waste Analysis Process Kno	wledge Other (Provide description above) /	
Driver/ Agent Signature R360 Represen	itative Signature	
Han Bart		
Customer Approval		
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Approved By: Da	ate: N	

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Permian Basin

Customer: MEWBOURNE OIL CO Customer #: CRI4110 Ordered by: ZACK THOMAS AFE #: PO #: Manifest #: NA Manif. Date: 7/15/2015 Hauler: JJM & SONS Driver JOSE Truck # 02 Card # Job Ref #

Ticket #: 700-708297 Bid #: Walk-in Bid į Date: 7/15/2015 MEWBOURNE OIL CO Generator: Generator #: Well Ser. #: 999908 Well Name: QPQASU Well #: 24 Field: Field #: Rig: **NON-DRILLING** County

Facility: CRI

Product / Service	Quantity	y Units		
Contaminated Soil (RCRA Exempt)	12.00	yards		2 3
Generator Certification Statement of Waste Status I hereby certify that according to the Resource Conservation and Recovery Ac	t (RCRA) a	and the US Er	vironmental Protection A	rgency's July
1988 regulatory determination, the above described waste is: \underline{X} RCRA Exempt: Oil Field wastes generated from oil and gas exploration a waste.	nd producti	ion operations	and are not mixed with n	on-exempt
RCRA Non-Exempt: Oil field waste which is non-hazardous that does no characteristics established in RCRA regulations, 40 CFR 261.21-261.24 or lis amended. The following documentation is attached to demonstrate the above	ted hazardo described	ous waste as de waste is non-ha	fined in 40 CFR, part 26: zardous. (Check the appr	1, subpart D, as ropriate items):
MSDS InformationRCRA Hazardous Waste Analysis Process Driver/ Agent SignatureR360 Representation		11 12		e) Marina da la calendaria
Customer Approval		\mathbb{P}		
THIS IS NOT AN	IINVO	ICE!		
Approved By: Jon Dones	Date:			5

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R3600 ENVIRONMENTAL SOLUTIONS	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	ZACK THOMAS	D	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well #: Field: Field #: Field #: Rig: County	700-708320 Walk-in Bid 7/15/2015 MEWBOURNE (999908 QPQASU 24 NON-DRILLING	OIL CO
Facility: CRI						142
Product / Service			Quantity U	nits		
Contaminated Soli (RCRA Exemp	ot)		12.00 ya	ards		й <u>у</u>
Generator Certification Statemen I hereby certify that according to the R 1988 regulatory determination, the abo X RCRA Exempt: Oil Field wastes gr waste. RCRA Non-Exempt: Oil field wastes characteristics established in RCRA reg amended. The following documentation MSDS Information RCRA H Driver/ Agent Signature	esource Conserv ve described was enerated from of the which is non- gulations, 40 CF n is attached to azardous Waste	vation and Recovery Act (1 iste is: il and gas exploration and hazardous that does not ex R 261.21-261.24 or listed demonstrate the above-de Analysis Process Kr	production of ceed the min hazardous v scribed wast	operations and nimum standard waste as defined ie is non-hazard Other (Prov	are not mixed with Is for waste hazard I in 40 CFR, part 2 lous. (Check the ap	non-exempt lous by 61, subpart D, as propriate items):
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RB3600 ENVIRONMENTAL SOLUTIONS	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	ZACK THOMAS	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Name: Well Name: Well #: Field: Field #: Rig: County	999908	DIL CO	×
Facility: CRI						
Product // Service		Quantity	Units			1995
Contaminated Soil (RCRA Exemp)t)	12.00			1	
Generator Certification Statemen	-		And the second second second			s
I hereby certify that according to the Re 1988 regulatory determination, the abov X RCRA Exempt: Oil Field wastes go waste. RCRA Non-Exempt: Oil field wast characteristics established in RCRA reg amended. The following documentatio	esource Conserve ve described ware enerated from o the which is non- gulations, 40 CF on is attached to azardous Waste	vation and Recovery Act (RCRA) an uste is: il and gas exploration and production hazardous that does not exceed the r rR 261.21-261.24 or listed hazardous demonstrate the above-described wa Analysis Process Knowledge	n operations and ninimum standar s waste as define ste is non-hazar Other (Prov	are not mixed with ds for waste hazardo d in 40 CFR, part 26 dous. (Check the app vide description abo	non-exempt ous by 51, subpart D, as propriate items):	
	Supervision and party					
Customer Approval				and the second		
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Customer: MEWBOURNE OIL CO Customer #: CRI4110 Ordered by: ZACK THOMAS AFE #: PO #: Manifest #: NA Manif. Date: 7/16/2015 Hauler: JJM & SONS Driver JOSE Truck # 002 Card # Job Ref #

Ticket #:	700-708507	
Bld #:	Walk-in Bid	
Date:	7/16/2015	
Generator:	MEWBOURNE O	IL CO
Generator #:		
Well Ser. #:	999908	200
Well Name:	QPQASU	£.,
Well #:	24	
Field:		
Field #:		<u> </u>
Rig:	NON-DRILLING	1.1
County		8

Facility: CRI

Product // Service	Quantity Unite	
Contaminated Soll (RCRA Exempt)	12.00 yards	
Generator Certification Statement of Waste Status		
	a and Recovery Act (RCRA) and the US Environmental Protection Agency's July	
1988 regulatory determination, the above described waste is \underline{X} RCRA Exempt: Oil Field wastes generated from oil and	a gas exploration and production operations and are not mixed with non-exempt	
waste.	24. 24.	
	dous that does not exceed the minimum standards for waste hazardous by 1.21-261.24 or listed hazardous waste as defined in 40 CFR, part 261, subpart D, as	
amended. The following documentation is attached to demo	onstrate the above-described waste is non-hazardous. (Check the appropriate items):	
WITH DATA AND AND AND AND AND AND AND AND AND AN	ysis Process Knowledge Other (Provide description above)	101
Driver/Agent Signature	R360 Representative Signature	
for Domba		
Customer Approval		BELLE
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Approved By:	Date:	
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RB3600 ENVIRONMENTAL SOLUTIONS	Customer: Customer #: Ordered by: AFE #: PO #: Manifest #: Manif. Date: Hauler: Driver Truck # Card # Job Ref #	MEWBOURNE OIL CO CRI4110 ZACK THOMAS NA 7/16/2015 JJM & SONS JOSE 002	Ticket #: Bid #: Date: Generator: Generator #: Well Ser. #: Well Ser. #: Well Name: Well #: Field: Field #: Rig: County		ж. CO	5 N N
Facility: CRI					- 25	
Product //Service		Guantity u	Inits			1000
Contaminated Soll (RCRA Exemp	t)	12.00 y	ards		12	
Generator Contification Statement I hereby certify that according to the Re 1988 regulatory determination, the above X RCRA Exempt: Oil Field wastes generated waste. RCRA Non-Exempt: Oil field wastes characteristics established in RCRA reg amended. The following documentation MSDS Information RCRA Ha Driver/ Agent Signature Customer Approval	source Conserve the described was nerated from of e which is non- ulations, 40 CF n is attached to uzardous Waste	vation and Recovery Act (RCRA) and ste is: and gas exploration and production hazardous that does not exceed the mini- R 261.21-261.24 or listed hazardous demonstrate the above-described was Analysis Process Knowledge	operations and inimum standard waste as defined te is non-hazard Other (Prov	are not mixed with r ds for waste hazardo d in 40 CFR, part 26 lous. (Check the app	non-exempt ous by 51, subpart D, as exopriate items):	
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Approved By: Am Drus	J.	Date:			\bigvee	

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ENVIRONMENTAL SOLUTIONS	Car

Customer: MEWBOURNE OIL CO Customer #: CRI4110 Ordered by: ZACK THOMAS AFE #: PO #: Manifest #: NA Manif. Date: 7/16/2015 Hauler: JJM & SONS Driver JOSE Truck # 002 Card # Job Ref #

Ticket #:	700-708553	50
Bid #:	Walk-in Bid	(A)
Date:	7/16/2015	•
Generator:	MEWBOURNE O	L CO
Generator #:		
Well Ser. #:	999908	
Well Name:	QPQASU	2 ⁰
Well #:	24	
Field:		
Field #:		ν.
Rig:	NON-DRILLING	8
County		

Facility: CRI

Permian Basin

Product / Service	Quantity Units	
Contaminated Soil (RCRA Exempt)	12.00 yards	3
Cenerator Certification Statement of Waste Status I hereby certify that according to the Resource Conservation and I 1988 regulatory determination, the above described waste is: X RCRA Exempt: Oil Field wastes generated from oil and gas e waste. RCRA Non-Exempt: Oil field waste which is non-hazardous characteristics established in RCRA regulations, 40 CFR 261.21-2	Recovery Act (RCRA) and the US Environmental P exploration and production operations and are not minimum standards for was that does not exceed the minimum standards for was 261.24 or listed hazardous waste as defined in 40 CF	xed with non-exempt te hazardous by R, part 261, subpart D, as
amended. The following documentation is attached to demonstrat MSDS Information RCRA Hazardous Waste Analysis Driver/ Agent Signature	_ Process Knowledge _ Other (Provide descri	
Customer Approval		
THIS IS N	OT AN INVOICE!	
Approved By:	Date:	- V

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