

Hornsby 35 Fed 2-3 Battery

REMEDIATION WORK PLAN

Release Date: 7/26/2015

UL/E Sec 35, T26 south, R27 east, Eddy county NM

API # 30-015-42208

October 22, 2015

Prepared by:

Lance Crenshaw, Project Manager Environmental Department Diversified Field Service, Inc. 206 West Snyder Hobbs, NM 88240 Phone: (575)964-8394

Fax: (575)393-8396

CIMAREX 10/22/2015

Mike Bratcher Environmental Specialist NM Oil Conservation District-Division 2 Artesia, NM 88210

RE: Cimarex, Hornsby 35 Fed 3-2 Battery– Remediation Work Plan UL/E, Section 35, T26S, R27E API No. 30-015-42208

Mr. Bratcher,

Cimarex has retained Diversified Field Service, Inc. (DFSI) to address environmental issues for the site detailed herein.

The site is located southeast of Whites City, NM, in Eddy County. The leak site resulted from a 4" flowline failure. The impacted area is inside of the lined battery and on the location pad just outside of the containment. Approximately 59 bbls of produced water was released, with 45 bbls inside the lined containment and 14 bbls on the pad. All fluids inside the lined containment were recovered; 10 bbls were recovered on the pad. A C-141 was submitted to the NMOCD on July 27, 2015. The C-141 is attached.

Site Assessment and Delineation

On September 17, 2015 DFSI personnel did a site assessment and mapped the spill location. On September 22, 2015, DFSI personnel returned to the location to begin soil sampling. Six sample points were delineated vertically. Each sample was tested for chloride levels as well as BTEX. The BTEX samples were performed using a Mini Rae Photoionization Detector (PID). The clean field samples were taken to a lab for confirmation. The results are attached.

DFSI has conducted a groundwater study of the area and has determined that according to the New Mexico Office of the State Engineer the there are no records of groundwater in this area.

Conclusion

After careful review DFSI on behalf of Cimarex would like to propose the following:

CIMAREX 10/22/2015

In the areas of SP #1, SP #2, SP #3, remove 2' bgs of the contaminated soil. In the areas of SP #4, SP #5 and SP #6, remove 1' bgs. Haul all contaminated material to an approved NM state disposal. Then backfill with fresh caliche.

Following the approval of the above plan, DFSI will submit all proper closure documentation to the NMOCD and BLM in accordance to the State and Federal Guidelines set forth.

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

Sincerely,

Michael Burton

Environmental Operations Director Diversified Field Service, Inc. 206 West Snyder

Hobbs, NM 88240 Office: (575)964-8394 Mobile: (575)390-5454

Michael Burton

Fax: (575)964-8396

Email: Mburton@diversifiedfsi.com

cc Shelly Tucker

Attachments: Initial Form C-141

Site/Sample Map Sample Data Photo Page 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.

			Rele	ease Notific	ation	and Co	rrective A	ction				
						OPERA'	ГOR		✓ Initia	al Report		Final Report
Name of Co							ristine Alderma					
Address 60				d TX			lo. 432-853-70	59				
Facility Nar	ne Horns	by 35 Fed 3	H			Facility Typ	e production					
Surface Ow	ner Feder	al		Mineral C	wner				API No	. 30-015	-4220	8
				LOCA	TIOI	OF REI	LEASE					
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/W	est Line	County		
E	35	26S	27E	210		S	1310		W	Eddy		
				Latitude 32.00	05684	Longitude	-104.1651154					
				_	_	OF REL		_				
Type of Relea	ase Produc	ed water				1	Release 59 bbls			Recovered 5		
Source of Rel	lease 4" po	ly flow line				Date and H 7/26/15	our of Occurrenc	е	Date and 1 7/26/15	Hour of Dis	covery	'
Was Immedia	te Notice (Yes [No □ Not Re	quired	If YES, To Mike Brate	Whom? her/Shelly Tucke	r				
By Whom?	Christine A	Iderman				Date and H	our 7/27	/15 1:3	3 pm			
Was a Watero		hed?	🛌			If YES, Vo	lume Impacting t	he Wate	rcourse.			
•			Yes 🛚								_	
If a Watercou	rse was Im	pacted, Descri	be Fully.*	*								•
NA												
containment a	ured due to and 10 bbls	pressure. 45 were recovered	bbls were ed.	contained within	a lined	containment a	and were recovere	ed. 14 b	bls were or	location pa	d just	outside of
Describe Area Environmenta	a Affected and consulting	and Cleanup A g company (D	Action Tak Piversified	en.*) will be on locati	on to sa	mple and dev	elop work plan,					
regulations al public health should their o	l operators or the envir perations h unent. In a	are required to conment. The ave failed to a ddition, NMC	o report an acceptance dequately CD accep	is true and comp nd/or file certain r te of a C-141 repo investigate and r tance of a C-141	elease northernorth	otifications a NMOCD m contaminati	nd perform correct arked as "Final Ro on that pose a thro	tive acti eport" de eat to gre	ons for rele oes not reli ound water	eases which eve the ope surface wa	may e rator o iter, hu	ndanger f liability ıman health
Signature:	mote	no Al	der	nan			OIL CONS			DIVISIO	<u>N</u>	
Printed Name	: Christine	Alderman				Approved by	Environmental S ₁	pecialist	:			
Title: ESH S	upervisor					Approval Dat	e:	}	Expiration 1	Date:		
E-mail Addre	ss: caldern	nan@cimarex	com			Conditions of	Approval:			Attached		

7/30/15

Phone: 432-853-7059

^{*} Attach Additional Sheets If Necessary



Hornsby 35 Fed 2-3H

PHOTO PAGE



Spill area behind tank battery



Spill area behind tank battery

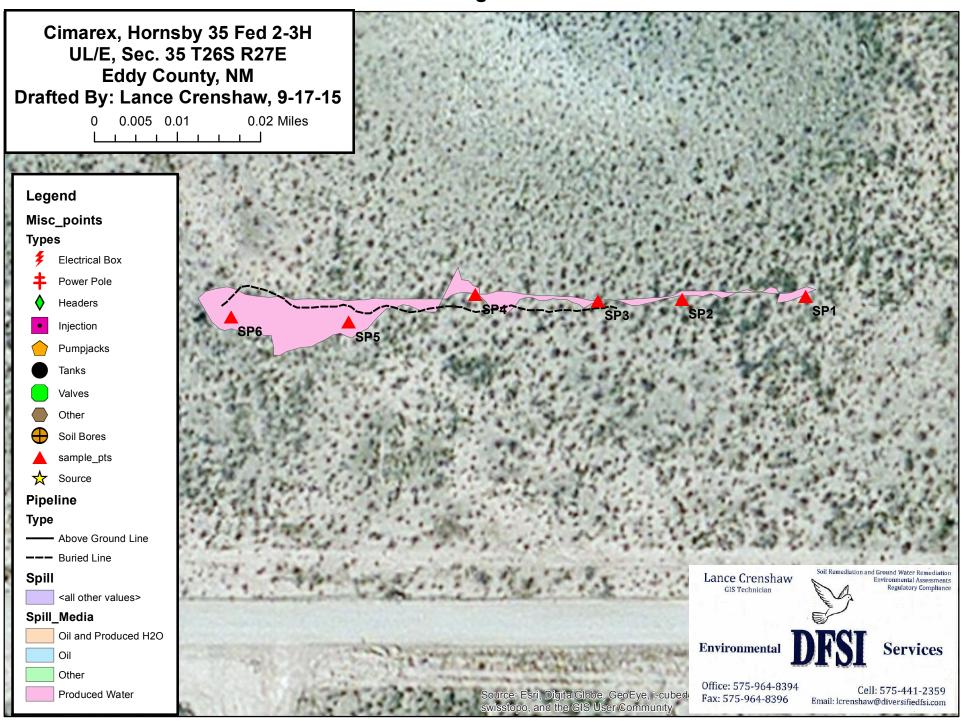


Spill area with sample point



Spill area behind battery

Site Diagram



Diversified Environmental Services

Company Name:CimarexSP Date:9/22/2015Location Name:Hornsby 35 Fed 2-3HRel Date:

SP1	CHL	PID	SP2	CHL	PID	SP3	CHL	PID	SP4	CHL	PID	SP5	CHL	PID
Surface	1,200	16.9	Surface	250	17.3	Surface	225	0.3	Surface	500	2.5	Surface	1,050	0.5
1'	1,475	12.3	1'	1,000	104.2	1'	2,749	0.2	1'	100	0.6	1'	575	0
2'	200	5.6	2'	425	16	2'	350	0.2						
2'	288		2'	592		2'	480		1'	96		1'	800	

Lab Confirmation Sample
Field Sampling
Needs Delineation and confirmation samples

SP6	CHL	PID	SP7	CHL	PID	SP8	CHL	PID	SP9	CHL	PID	SP10	CHL	PID
Surface	2,674	16.8												
1'	250	505.3												
1'	272													
									ļ <u>L</u>					
									ļ L					
									ļ <u>L</u>					

Lab Confirmation Sample
Field Sampling
Needs Delineation and confirmation samples



September 29, 2015

KENNETH BROWNTREE
CIMAREX ENERGY CO.-MIDLAND
600 N. MARIENFELD ST, SUITE 600
MIDLAND, TX 79701

RE: HORNSBY 25 FED #3H

Enclosed are the results of analyses for samples received by the laboratory on 09/23/15 8:50.

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/ga/lab accred certif.html.

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

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

Accreditation applies to public drinking water matrices.

Celey D. Keine

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



CIMAREX ENERGY CO.-MIDLAND KENNETH BROWNTREE 600 N. MARIENFELD ST, SUITE 600 MIDLAND TX, 79701

Fax To: **UNK-NOWN**

Received: 09/23/2015 Sampling Date: 09/22/2015

Reported: 09/29/2015 Sampling Type: Soil

Project Name: HORNSBY 25 FED #3H Sampling Condition: Cool & Intact Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: SAMPLE PT. 1 @ 2' (H502512-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2015	ND	2.18	109	2.00	1.81	
Toluene*	<0.050	0.050	09/26/2015	ND	1.89	94.6	2.00	0.837	
Ethylbenzene*	<0.050	0.050	09/26/2015	ND	1.80	90.0	2.00	1.03	
Total Xylenes*	<0.150	0.150	09/26/2015	ND	5.76	96.1	6.00	0.741	
Total BTEX	<0.300	0.300	09/26/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	108 9	% 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	288	16.0	09/25/2015	ND	416	104	400	0.00	
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	09/24/2015	ND	162	80.9	200	1.42	
DRO >C10-C28	148	10.0	09/24/2015	ND	173	86.3	200	0.855	
Surrogate: 1-Chlorooctane	73.1	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	83.9	% 52.1-17	'6						

Surrogate: 1-Chlorooctadecane

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 competent 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.



CIMAREX ENERGY CO.-MIDLAND KENNETH BROWNTREE 600 N. MARIENFELD ST, SUITE 600 MIDLAND TX, 79701

Fax To: **UNK-NOWN**

Received: 09/23/2015 Sampling Date: 09/22/2015

Reported: 09/29/2015 Sampling Type: Soil

Project Name: HORNSBY 25 FED #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: SAMPLE PT. 2 @ 2' (H502512-02)

BTEX 8021B	mg,	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2015	ND	2.18	109	2.00	1.81	
Toluene*	<0.050	0.050	09/26/2015	ND	1.89	94.6	2.00	0.837	
Ethylbenzene*	<0.050	0.050	09/26/2015	ND	1.80	90.0	2.00	1.03	
Total Xylenes*	<0.150	0.150	09/26/2015	ND	5.76	96.1	6.00	0.741	
Total BTEX	<0.300	0.300	09/26/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	107	% 85.6-13	7						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	592	16.0	09/25/2015	ND	416	104	400	0.00	
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	09/24/2015	ND	162	80.9	200	1.42	
DRO >C10-C28	23.7	10.0	09/24/2015	ND	173	86.3	200	0.855	
Surrogate: 1-Chlorooctane	67.0	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	73.8	% 52 1-17	6						

Surrogate: 1-Chlorooctadecane 73.8 % 52.1-176

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 competent 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.



CIMAREX ENERGY CO.-MIDLAND KENNETH BROWNTREE 600 N. MARIENFELD ST, SUITE 600 MIDLAND TX, 79701

MIDLAND 1X, 79701
Fax To: UNK-NOWN

Received: 09/23/2015 Sampling Date: 09/22/2015

Reported: 09/29/2015 Sampling Type: Soil

Project Name: HORNSBY 25 FED #3H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: SAMPLE PT. 3 @ 2' (H502512-03)

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	09/26/2015	ND	2.18	109	2.00	1.81	
Toluene*	<0.050	0.050	09/26/2015	ND	1.89	94.6	2.00	0.837	
Ethylbenzene*	<0.050	0.050	09/26/2015	ND	1.80	90.0	2.00	1.03	
Total Xylenes*	<0.150	0.150	09/26/2015	ND	5.76	96.1	6.00	0.741	
Total BTEX	<0.300	0.300	09/26/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 85.6-13	7						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	480	16.0	09/25/2015	ND	416	104	400	0.00	
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	09/25/2015	ND	162	80.9	200	1.42	
DRO >C10-C28	45.3	10.0	09/25/2015	ND	173	86.3	200	0.855	
Surrogate: 1-Chlorooctane	66.9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	74.2	% 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

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



CIMAREX ENERGY CO.-MIDLAND
KENNETH BROWNTREE
600 N. MARIENFELD ST, SUITE 600
MIDLAND TY, 79701

MIDLAND TX, 79701 Fax To: UNK-NOWN

Received: 09/23/2015 Sampling Date: 09/22/2015

Reported: 09/29/2015 Sampling Type: Soil

Project Name: HORNSBY 25 FED #3H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Project Location: NOT GIVEN

Sample ID: SAMPLE PT. 4 @ 1' (H502512-04)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2015	ND	2.18	109	2.00	1.81	
Toluene*	<0.050	0.050	09/26/2015	ND	1.89	94.6	2.00	0.837	
Ethylbenzene*	<0.050	0.050	09/26/2015	ND	1.80	90.0	2.00	1.03	
Total Xylenes*	<0.150	0.150	09/26/2015	ND	5.76	96.1	6.00	0.741	
Total BTEX	<0.300	0.300	09/26/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	107 9	% 85.6-13	7						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	09/25/2015	ND	416	104	400	0.00	
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	09/25/2015	ND	162	80.9	200	1.42	
DRO >C10-C28	<10.0	10.0	09/25/2015	ND	173	86.3	200	0.855	
Surrogate: 1-Chlorooctane	78.9	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	79.3	% 52.1-17	6						

Cardinal Laboratories *=Accredited Analyte

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



CIMAREX ENERGY CO.-MIDLAND KENNETH BROWNTREE 600 N. MARIENFELD ST, SUITE 600 MIDLAND TX, 79701

Fax To: **UNK-NOWN**

Received: 09/23/2015 Sampling Date: 09/22/2015

Reported: 09/29/2015 Sampling Type: Soil

Project Name: HORNSBY 25 FED #3H Sampling Condition: Cool & Intact Sample Received By: Project Number: NONE GIVEN Jodi Henson

Project Location: **NOT GIVEN**

Sample ID: SAMPLE PT. 5 @ 1' (H502512-05)

BTEX 8021B	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	09/26/2015	ND	2.18	109	2.00	1.81	
Toluene*	<0.050	0.050	09/26/2015	ND	1.89	94.6	2.00	0.837	
Ethylbenzene*	<0.050	0.050	09/26/2015	ND	1.80	90.0	2.00	1.03	
Total Xylenes*	<0.150	0.150	09/26/2015	ND	5.76	96.1	6.00	0.741	
Total BTEX	<0.300	0.300	09/26/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	106 %	% 85.6-13	7						
Chloride, SM4500CI-B	mg/	kg	Analyze	ed By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	800	16.0	09/25/2015	ND	416	104	400	0.00	
TPH 8015M	mg/	kg	Analyze	ed By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	09/25/2015	ND	162	80.9	200	1.42	
DRO >C10-C28	<10.0	10.0	09/25/2015	ND	173	86.3	200	0.855	
Surrogate: 1-Chlorooctane	75.4	% 47.2-15	7						
Surrogate: 1-Chlorooctadecane	75.89	% 52 1-17	'6						

Surrogate: 1-Chlorooctadecane 75.8 % 52.1-176

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 competent 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.



CIMAREX ENERGY CO.-MIDLAND KENNETH BROWNTREE 600 N. MARIENFELD ST, SUITE 600 MIDLAND TX, 79701

MIDLAND TX, 79701
Fax To: UNK-NOWN

Received: 09/23/2015 Sampling Date: 09/22/2015

Reported: 09/29/2015 Sampling Type: Soil

Project Name: HORNSBY 25 FED #3H Sampling Condition: Cool & Intact
Project Number: NONE GIVEN Sample Received By: Jodi Henson

Analyzed By: MC

Project Location: NOT GIVEN

Sample ID: SAMPLE PT. 6 @ 1' (H502512-06)

RTFY 8021R

BIEX 8021B	mg/	кд	Апануге	а ву: м5					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.200	0.200	09/28/2015	ND	2.04	102	2.00	2.21	
Toluene*	0.772	0.200	09/28/2015	ND	1.75	87.4	2.00	1.79	
Ethylbenzene*	3.18	0.200	09/28/2015	ND	1.67	83.5	2.00	1.51	
Total Xylenes*	6.51	0.600	09/28/2015	ND	5.37	89.5	6.00	1.51	
Total BTEX	10.5	1.20	09/28/2015	ND					
Surrogate: 4-Bromofluorobenzene (PID	116 9	% 85.6-13	7						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: CK					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	272	16.0	09/25/2015	ND	416	104	400	0.00	
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	352	10.0	09/25/2015	ND	162	80.9	200	1.42	
DRO >C10-C28	3240	10.0	09/25/2015	ND	173	86.3	200	0.855	
Surrogate: 1-Chlorooctane	109 5	% 47.2-15	7						

Surrogate: 1-Chlorooctadecane 99.8 % 52.1-176

Cardinal Laboratories *=Accredited Analyte

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



Notes and Definitions

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

** Samples not received at proper temperature of 6°C or below.

*** Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories *=Accredited Analyte

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



CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Company Name: 1			
^*		BILL TO	ANALYSIS REQUEST
11160	renneth Brownfree	P.O. #:	
	State: 7:	Company: Cimarex	
Phone #:	Fax #:	Aun: Flor	
Project #: Pi	t Owner:	Address:	
Project Name: Chmanex			
1 25 t	1+2+	State: Zip:	
wis the co	× +5 T	Phone #:	
1		Fax #:	
	P. MATRIX	PRESERV. SAMPLING	
Lab I.D. Sample I.D.		BASE:	Н
H502512 Samply Point 1	# CON GROUI WASTE SOIL OIL SLUDG	-	TPH
Sample Point 3		10:40Am X	×>
5 Sample Point 4		N 1:05 DW	× × ×
Jample Point		V 2:05pm X	× ;
O I IV	6	X wd50:2	× , , , , , , , , , , , , , , , , , , ,
PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remoty for any claim printing whether	is we remedy for any claim spring which		
service. In no event shall Cardinal be liable for incidental or consequential damages, including without initiation, business made in writing and received by Cardinal within 30 days after completion of the applicable affiliates or successors arising out of or related to the performance of services hereundar by Cardinal initiation, business interruptions, loss of use, or loss of profits incurred by client, its suboidiaries, Relinquished By: Relinquished By:	absorver shall be deemed waived unless made in writing and rec- amages, including without limitation, business interruptions, loss is hereunder by Cardinal, regardless of whether such plaim is bar	e in writing and received by Cardinal within 30 days after completion of the applicable interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, etrisuch daim is based upon any of the above triated beasons or offenyles.	
1/23	305	Phone Result: Fax Result: REMARKS:	☐ Yes ☐ No Add'I Phone #:
reinquished By: Date: Time:	Received By:	email to	malves @
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool Intact	CHECKED BY:	mpatherson @
+ Cardinal cannot account		CA .	chores @



New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

Basin/County Search:

County: Eddy

PLSS Search:

Section(s): 35, 36, 26, 25 **Township:** 26S **Range:** 27E



New Mexico Office of the State Engineer Water Column/Average Depth to Water

No records found.

Basin/County Search:

County: Eddy

PLSS Search:

Section(s): 30, 31, 29, 32 Township: 26S Range: 28E