Administrative/Environmental Order



AE Order Number Banner

Report Description

This report shows an AE Order Number in Barcode format for purposes of scanning. The Barcode format is Code 39.

App Number: pKJ1605041033

1RP - 2842

CIMAREX ENERGY CO. OF COLORADO

2/19/2016

Lange and

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State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 1220 South St. Er 1- D

Form C-141 Revised August 8, 2011

-

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

<u>District IV</u> 220 S. St. Fran	icis Dr., Sant	a Fe, NM 8750	5			e, NM 875						
الألفانية بمتحداد كتوي روقيه			Rol	ease Notific			ويتراغ المحمد بمستجد المتحديد	otio	n !			الأفاري المرجوع فيعار بالمرجوع المتكافر
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Name of Co	mnany Ci	maray Fna				OPERA Contract In	hn Osborne			ial Report	<u>X</u>	Final Report
Name of Company Cimarex Energy Address 2020 W Bender Blvd, Hobbs, NM						·····	No. 575-390-89	78				
		1 35 Federal					e Tank Batter					
Surface Ow	mer BI M			Mineral C	wner	······			ADINO	. 30-025-40	0.86	
Surface Ow	Her DEM			······································	******				AFINO	. 30-023-40	080	
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Unit Letter	Section	Township	Range	reet from the	Norm	South Line	Feet from the	East	West Line	County		
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				NAT	TRE	OF REL	FASE					
Type of Rele	ase Oil & V	Water			UNE		Release 800 bbl	s Oil	Volume F	Recovered 25	9 hbls	oil
71							246 Wa					water
Source of Re	lease Tank	cs & Wellhea				Date and H	Hour of Occurrence		Date and	Hour of Disc	01/07/	
				·······	,	23July12	Hour-Unknown			0910 hrs	Dvery	_
Was Immedi	ate Notice (Vac 🗖	No 🗌 Not Rea	nuired	If YES, To		п				
By Whom? J	lahn Oshar		<u> </u>			Geoffrey Leking, NM OCD Date and Hour 23July12 1115 hrs						
Was a Water							blume Impacting					
			Yes X	No		N/A						
If a Watercou	irse was Im	pacted, Descr	ibe Fully.	*	*	, <i></i>						
N/A												
	ise of Probl	em and Reme	dial Actio	n Taken.* 🗆 Well	was fra	cked into by	Concho Operati	ing (We	est Pearl 36	State #2H).	Pump	er found all
tanks and co	ntainment	running over	r. The stu	ffing box on well liquid, an excav	head w	vas blown ou	t. Vac Trucks we	ere dis	patcher to r	emove the fr	ee star	nding
				in the absorptic								. Caliche
Describe Are	a Affected	and Cleanup A	Action Tal	cen.*								
				outhwest of the le ed by each party								
samples for	6 sample p	oints were ob	tained an	d lab analysis for	r Chlor	ides, TPH, a	nd BTEX was co	onducte	d. Lab resu	Its indicated	по со	ntaminants
were present	t. The locat	tion was blad	ed in orde	er to stockpile an ffrey Leking and	d remo	ve approxim	ately 3"-5" of ma	aterial	and then re	paired with	base c	ourse. The
				e surrounding ter						ackined wi	in clea	in material
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				e is true and comp nd/or file certain r								
public health	or the envi	ronment. The	acceptance	ce of a C-141 repo	ort by th	e NMOCD m	arked as "Final R	leport"	does not reli	eve the opera	tor of	liability
should their a	operations h	have failed to a	adequately	v investigate and r	emediat	te contaminati	ion that pose a thr	reat to g	ground water	, surface wat	er, hun	nan health
federal, state.	or local la	ws and/or regi	ilations.	otance of a C-141	report d	ides not renev	e the operator of	respon	sidinity for co	omphance wi	in any	other
	1 /)			OIL CON	SERV	VATION	DIVISIO	N	
Signature:		1.) li	mane								
	- our		1100			Approved by	Environmental S	neciali	st al o	-00		
Printed Name	e: John P. (Osborne							- Speck	Jethin	g/	
Title: Forem	an					Approval Da	te: 9 2411	2	Expiration	Date: —	0	
								I		Attached	 	
E-mail Addre	ess: josborn	ne@cimarex.	com			Conditions of	f Approval:	-			L	
Date: 21Ser	ot12	Pho	ne: 575-3 9	0-8978					•	1RP-7-12-	2842	

* Attach Additional Sheets If Necessary

Cimarex Energy

Remediation Summary

Mallon 35 Fed 7H

API 30-025-40086

UI. D, Sec. 35, T19S, R34E

Lea County, NM

GPS N32.6223 W-103.5385

1RP-7-12-2842

Start date: 23July12

Finish date: 20Sept12

Prepared By: Vernon K. Black

Hungry Horse, LLC PO Box 1058 Hobbs, NM 88241 (575)-393-3386



MOBBS OCO SEP 2 5 2012

RECEIVED

1625 N. French Dr., Hobbs, NM 88240 District II Energy Mineral	f New Mexico s and Natural Resources Revised August 8, 2011
1000 Rio Brazos Road, Aztec, NM 8/410 <u>District IV</u> 1220 Sou	ervation Division th St. Francis Dr. Fe, NM 87505
Release Notification	on and Corrective Action
	OPERATOR Initial Report Final Report
Name of Company C. MAREX ENERGY	Contact JoHN OSDORNE
Address 2020 W. BENJER Rive Hobbs, NM Facility Name MAY/04 35 FED #7	Telephone No. 575-390-8978 Facility Type TALSE BAttered
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	wēst
Latitude <u>32° 37. 343</u>	Longitude 103° 32.291'
	E OF RELEASE goo o' 1 246 worker
Type of Release 0:/ + WHEN Source of Release	Volume of Release Volume Recovered Date and Hour of Occurrence Date and Hour of Discovery
Was Immediate Notice Given?	If YES, To Whom?
Yes No Not Require	
By Whom? JoHn Osbornie	Date and Hour 7-23-12 1/: 15 If YES, Volume Impacting the Watercourse.
Was a Watercourse Reached?	11 FES, Volume Impacting the Watercourse.
If a Watercourse was Impacted, Describe Fully.*	
Describe Course of Broklam and Demodial Action Taken *	
36 State # 2 H), PURIPER FOUND All tante + in	FRAC'D INFO BY CONCLO ON + GAS - (WEST PEAR L Attiment RUMNING OSD - STUFFING BOX ON WELL LEAD
Blown out	Box on well Ased
Describe Area Affected and Cleanup Action Taken.* Approximit	tely 500' Long And 75' wide At Longest, And widest points
PICKING 10 011 - WATER IN CASTURE.	FER SOD' LONG AND 75' WIDE AL LONGEST, AND WIDEST POINTS and stopped RUN OFF into pasture, IMMEDIATEly stanted
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
	notifications and perform corrective actions for releases which may endanger the NMOCD marked as "Final Report" does not relieve the operator of liability
should their operations have failed to adequately investigate and remedi	ate contamination that pose a threat to ground water, surface water, human health
or the environment. In addition, NMOCD acceptance of a C-141 report federal, state, or local lays and/or regulations.	does not relieve the operator of responsibility for compliance with any other
icucial state of occur lays alloor regulations.	OIL CONSERVATION DIVISION
Signature: Signature	
	Approved by Environmental Specialist:
Printed Name: JOHN P. OSSORNE	Heat Keleing
Title: FOREMAIN	Approval Date: 7/24/12 Expiration Date: 9/24/12
E-mail Address: COSDORNE COMPREX. COM	Conditions of Approval: SUBMIT FINAL
	C-141 BY 9/24/12 Attached []
Date: 7-23-12 Phone: 575-39-8978	1RP-7-12-2842

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* Attach Additional Sheets If Necessary

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HOBBS OCD

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Attachments

Attachment 1 – Remediation Work Plan

Attachment 2 – Lab Analytical & Chain of Custody

Attachment 3 – Archeological Survey

Attachment 4 – C 141's Initial and Final

1.0 Introduction

This report address the remediation of the unplanned release at Cimarex Energy's Mallon 35 Fed 7H well location. The remediation is the result of tank and containment overflow from the well (Mallon 35 Fed 7H) being "frac'd" into from a nearby well. The affected area consisted of the well pad and the pasture to the southwest of the pad.

2.0 Area Description

The well site, tank battery, and affected area are in rural Lea County, NM west of Hobbs, NM on the south side of the Carlsbad Highway, Highway 62/180, at mile marker 80. The area is relatively flat and consists of sand dunes covered with native grasses, mesquite bushes, shindry oak, and yucca plants. Based upon the Lea County Depth to Groundwater Map, depth to groundwater is 125'. There are no known water wells and no surface bodies of water within 1000' of this location.

There is a known archeological site to the south of the well pad. An emergency archeological survey was conducted prior to the start of emergency response and remediation measures. The site was cleared for work in the affected area. See attached archeological survey.

3.0 Remediation Process

Upon notification of the release, an emergency response team was mobilized to the site. An emergency One Call was made and Boone Archeological was contacted to conduct the archeological site survey. Vacuum trucks were on site removing the free standing liquid. A temporary road was constructed to allow the vacuum trucks better access to the liquid in the pasture. A track hoe was used for minor excavation to construct a ditch to allow the liquid to flow towards the vacuum trucks. An area around the well head was bermed up to prevent the escape of liquid coming the well. Clean caliche was brought ion and dumper/spread on the well pad to aid in absorbing the liquid that remained after the vacuum trucks were finished. Excavation to remove the saturated soil began with the soil being stockpiled on plastic at the southwest corner of the well pad. Transportation to a division approved disposal facility began shortly thereafter.

A remediation work plan was submitted to NM OCD and BLM. The work plan was approved as submitted. The remediation continued with the excavation of the affected area in the pasture to approximately 5' below ground surface (BGS). Filed test for chlorides and TPH were conducted at five sample points. Field test results indicated that there were no contaminants present. Samples were transported under chain of custody to Cardinal Lab in Hobbs for Chloride, TPH, and BTEX analysis. Lab results were presented to Geoffrey Leking at NM OCD. See attached lab analysis. Closure approval was given.

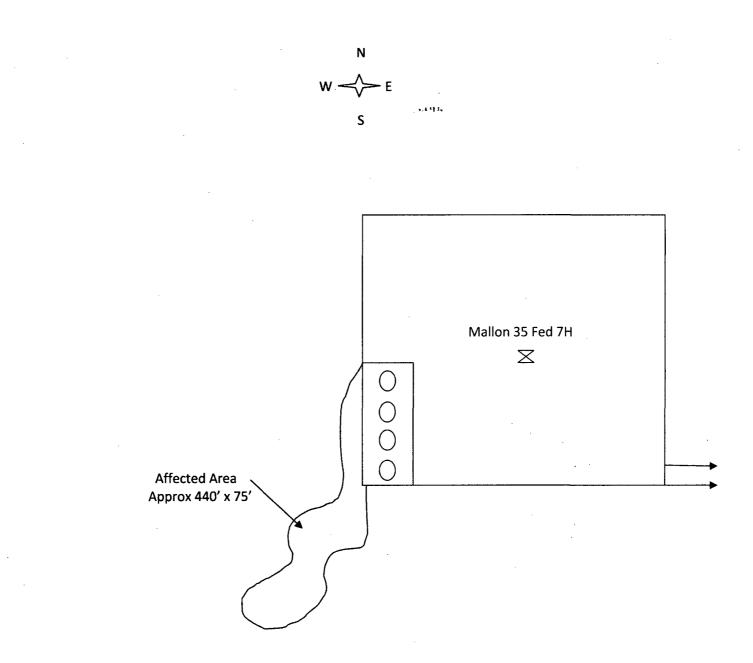
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The area immediately behind the battery was excavated and backfilled as well. The tanks and containment walls were steam cleaned. The well pad was bladed to remove the top 8"-10" of soil and reconstructed to the original grade using base course.

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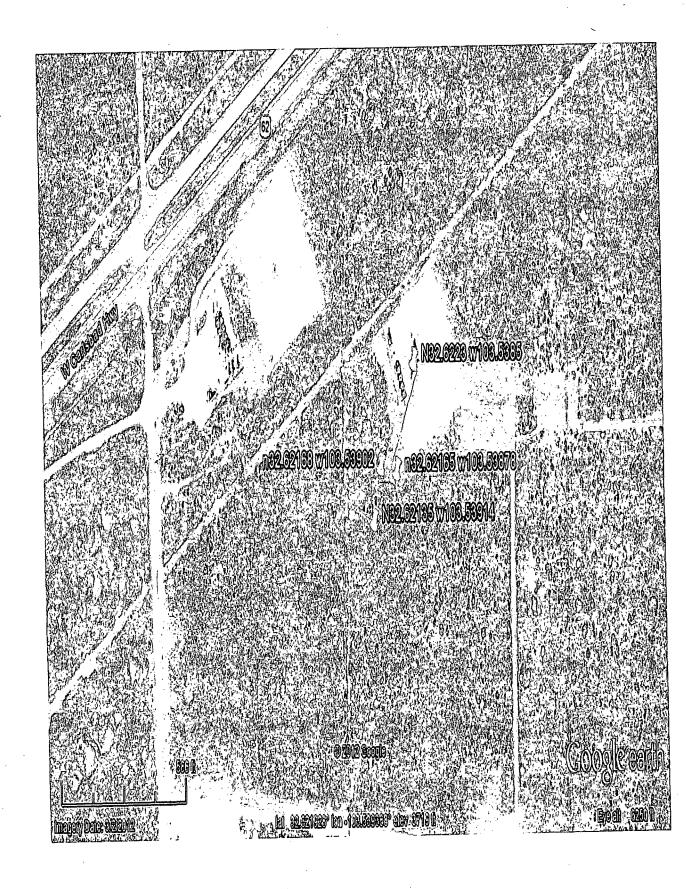
The excavated area in the pasture was backfilled to within approximately 2' of the surface using clean caliche. Clean topsoil was then brought in and used to finish the back fill. The area was contoured to match the surrounding terrain and seed with BLM #2 seed.

2



Wildlife Water Station

Note: Drawing is not to scale. It is for illustration purposes only.

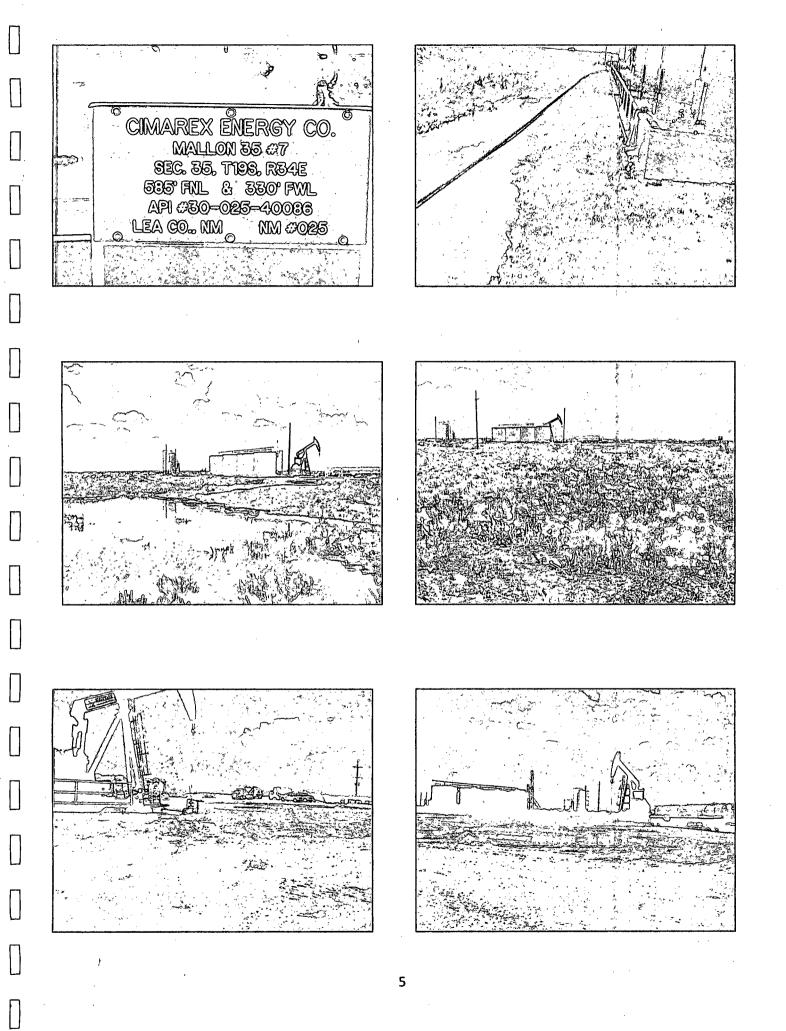


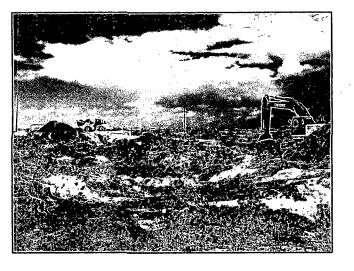
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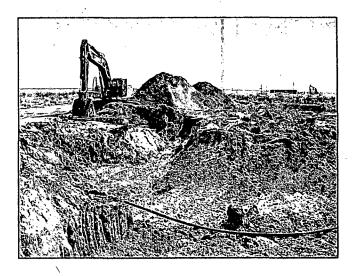
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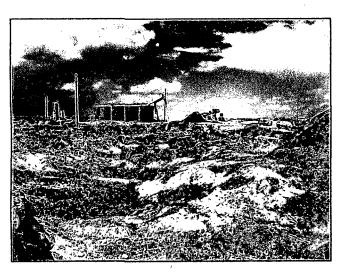
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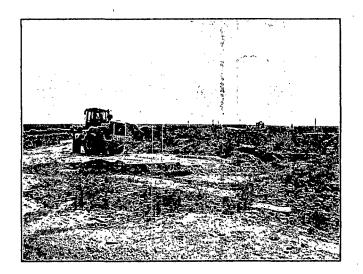
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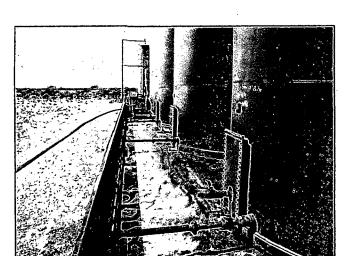


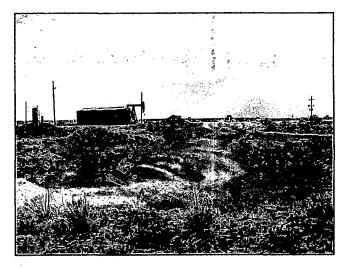


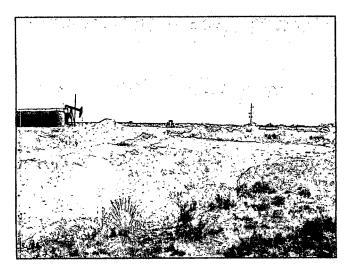




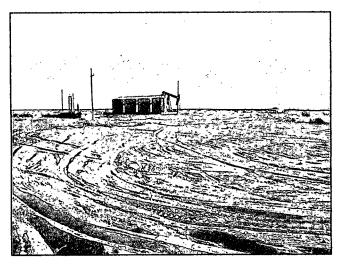


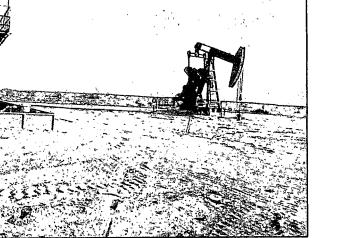


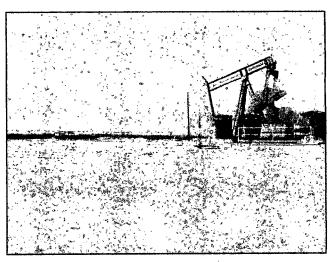






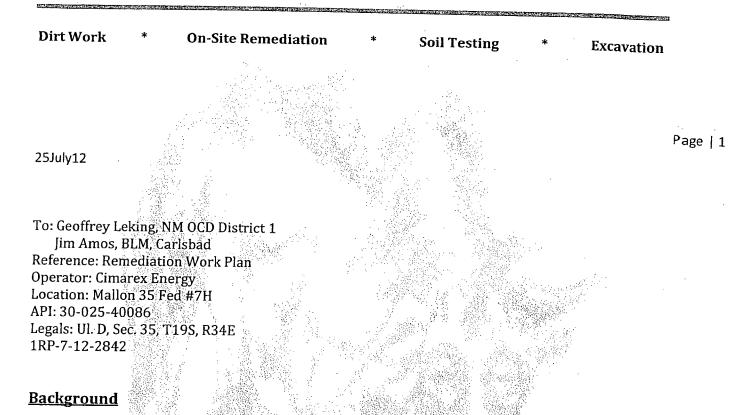






Attachment 1

HUNGRY HORSE, LLC ENVIRONMENTAL SERVICES



This location is south of the Carlsbad Highway approximately .75 miles southeast of MM #80. There are no known water wells and no know surface bodies of water within 1000' of this site. Based upon the Lea County Depth to Groundwater Map, the depth to groundwater is 130'. The affected area is relatively flat and consists of sand dunes and native vegetation. The release ran southwest from the well head approximately 440' and is approximately 75' wide at its widest point.

There is a known archeological site to the south of the well location. The release did not affect the site nor will the remediation work. An archeological survey of the area was completed by Boone Archeological of Carlsbad and no conflict was found.

Emergency Response Work Completed to Date

Upon notification of the release, a crew was mobilized for emergency remedial action. An emergency One Call was done. Vacuum trucks were on site and continued to run recovering free standing liquid. An excavator was used to trench the area to allow the free standing liquid to flow towards the vacuum trucks for ease in recovery. The area around the well head was bermed to prevent further run off from the leaking well head. Clean soil was brought in and spread on the location to help absorb the mud that had been created.

At the completion of the recovery of the free standing liquid, excavation of the heavily saturated soil began. This material was stockpiled on plastic on the edge of the location awaiting transport. Trucks were brought in to start the transportation to the disposal facility.

71211

P.O. Box 1058 * Hobbs New Mexico * Office 575-393-3386 * Fax 575-391-4585

HUNGRY HORSE, LLC ENVIRONMENTAL SERVICES

For the purpose of creating a work plan, three soil samples were obtained from the bottom of the affected area and field tested for chlorides. The field test indicated not presence of chlorides.

Remediation Proposal

The proposed remediation plan is to work the affected area in the pasture and then move to the well pad, treating each as a separate project.

The affected area that was excavated during the emergency action phase will have the walls further excavated to remove all visible hydrocarbon staining and chlorides. Upon completion of this phase, a series of five sample points will be identified. Soil samples will be obtained from each selected sample point, one from the bottom and one each from both sides, making a total of 15 soil samples. Each sample will be field tested for chlorides using titrator strips and for hydrocarbons using a PID meter. If field test indicate levels above closure limits, excavation will continue at that sample point in three foot increments. When field test results indicate contaminant levels at or below closure levels, the samples will be transported to Cardinal Lab for laboratory analysis. Results will be presented to NM OCD's Geoffrey Leking for his closure approval. Upon receipt of closure approval the area will be backfilled with clean material, contoured to match the surrounding terrain, and seeded with a BLM approved seed mixture.

The affected area of the drill pad will be graded to remove the saturated area. The affected area around the well head will be excavated and backfilled with clean material. The drilling pad will then be brought back to grade using clean caliche.

Vernon K. Black, Hungry Horse, LLC

Page | 2

P.O. Box 1058 * Hobbs New Mexico * Office 575-393-3386 * Fax 575-391-4585

Vernon Black

From: Sent: To: Subject: Amos, James A [jamos@blm.gov] Monday, July 30, 2012 12:55 PM Vernon Black RE: Cimarex Mallon 35 Fed #7H

Vernon, I'm good with this. The backfill can be caliche up to a foot, then a good sandy soil to cap the site. Contour to blend with the surrounding, seed with BLM #2 seed mix. Let me know when you're ready to backfill, thanks

From: Vernon Black [mailto:VBlack@Hungry-Horse.com] Sent: Monday, July 30, 2012 10:51 AM To: Amos, James A Subject: Cimarex Mallon 35 Fed #7H

Good Morning Jim,

Please take a look at the remediation work plan proposal for the above reference site. Also attached is the Arch Site Survey as requested. Please let me know if you have any questions or of there are any adjustments that need to be made. If all is OK, we will move in and complete the remediation.

1

Vernon K. Black Hungry Horse, LLC PO Box 1058 Hobbs, NM 88241 575 393 3386 office 575 631 2253 cell

Attachment 2



Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM; 88240 Fax To: (505) 391-4585

Received:	08/17/2012	Sampling Date:	08/17/2012
Reported:	08/24/2012	Sampling Type:	Soil
Project Name:	. MALLON 35 FED #714	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP #1 BOTTOM @ 5' (H201939-01)

BTEX 8021B	mg.	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2012	ND	1.85	92 . 6	2.00	6.90	
Toluene*	<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61	
Ethylbenzene*	<0.050	0.050	08/22/2012	ND	1.92	96.0	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14	
	·								

Surrogate: 4-Bromofluorobenzene (PIC 102 % 89.4-126

Chloride, SM4500Cl-B	mg	/kg	Analyze	ed By: HM					· · · · · · · · · · · · · · · · · · ·
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/21/2012	ND	416	104	400	3.92	
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	08/22/2012	ND	204	102	200	14.0	
DRO >C10-C28	18.4	10.0	08/22/2012	· ND	210	105	200	15.5	
Surrogate: 1-Chlorooctane	92.4	% 65.2-14	0						
Surrogate: 1-Chlorooctadecane	91.2	% 63.6-15	4						

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Celeg D. Kune



Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/17/2012	Sampling Date:	08/17/2012
Reported:	08/24/2012	Sampling Type:	Soil
Project Name:	MALLON 35 FED #714	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP #1 SOUTH WALL (H201939-02)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2012	ND	1.85	92.6	2.00	6.90	
Toluene*	<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61	
Ethylbenzene*	<0.050	. 0.050	08/22/2012	ND	1.92	96.0	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14	
Surrogate: 4-Bromofluorobenzene (PIL	102 9	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/21/2012	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	08/22/2012	ND	204	102	200	14.0	
DRO >C10-C28	<10.0	10.0	08/22/2012	ND	210	105	200	15.5	
Surrogate: 1-Chlorooctane	110 %	65.2-14	0				1	<u> </u>	
Surrogate: 1-Chlorooctadecane	1169	63.6-15	4						

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Celleg D. Keine

Celey D. Keene, Lab Director/Quality Manager

Page 3 of 20



Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/17/2012	Sampling Date:	08/17/2012
Reported:	08/24/2012	Sampling Type:	Soil
Project Name:	MALLON 35 FED #714	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP #1 EAST WALL (H201939-03)

BTEX 8021B mg/kg Analyzed By: AP

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2012	ND	1.85	92.6	2.00	6.90	
Toluene*	<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61	
Ethylbenzene*	<0.050	0.050	08/22/2012	ND	1.92	96.0	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14	
Surrogate: 4-Bromofluorobenzene (PIL	99.7	% 89.4-12	6						
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/21/2012	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	08/22/2012	ND	204	102	200	14.0	
DRO >C10-C28	<10.0	10.0	08/22/2012	ND	210	105	200	15.5	
Surrogate: 1-Chlorooctane	82.1	% 65.2-14)					• • •	
Surrogate: 1-Chlorooctadecane	89.1	% 63.6-15	4						

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Celey D. Keene

Celey D. Keene, Lab Director/Quality Manager

NCARDINAL Laboratories

Analytical Results For:

Hungry Hors	Hungry Horse Environmental				
VERNON BLACK					
P.O. Box 105	P.O. Box 1058				
Hobbs NM, 8	8240				
Fax To: (505) 391-4585					

Received:	08/17/2012		Sampling Date:	08/17/2012
Reported:	08/24/2012		Sampling Type:	Soil
Project Name:	MALLON 35 FED #714	•	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	,	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN			

Sample ID: SP #1 WEST WALL (H201939-04)

BTEX 80218	mg/kg		Analyze	Analyzed By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2012	ND	1.85	92.6	2.00	6.90	
Toluene*	<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61	
Ethylbenzene*	<0.050	0.050	08/22/2012	ND	1.92	96.0	2.00	5.60	•
Total Xylenes*	<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14	

Surrogate: 4-Bromofluorobenzene (PIL 99.5 % 89.4-126

Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/21/2012	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	08/22/2012	ND	204	102	200	14.0	
DRO >C10-C28	<10.0	10.0	08/22/2012	ND	210	105	200	15.5	
Surrogate: 1-Chlorooctane	101	% 65.2-14	0		•				
Surrogate: 1-Chlorooctadecane	93.5	% 63.6-15	4						

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Celey D. Kuna

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Analytical Results For:

Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/17/2012	Sampling Date:	08/17/2012
Reported:	08/24/2012	Sampling Type:	Soil
Project Name:	MALLON 35 FED #714	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		
-			

Sample ID: SP #2 BOTTOM @ 5' (H201939-05)

84.6 %

85.8 %

65.2-140

63.6-154

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2012	ND	1.85	92.6	2.00	6.90	
Toluene*	<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61	
Ethylbenzene*	<0.050	0.050	08/22/2012	ND	1.92	96.0	2,00	5.60	
Total Xylenes*	<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14	
Surrogate: 4-Bromofluorobenzene (PIL	100 :	89.4-12	6						
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/21/2012	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	08/23/2012	ND	204	102	200	14.0	
DRO >C10-C28	<10.0	10.0	08/23/2012	ND	210	. 105	200	15.5	

Surrogate: 1-Chlorooctane Surrogate: 1-Chlorooctadecane

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Analytical Results For:

Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/17/2012	Sampling Date:	08/17/2012
Reported:	08/24/2012	Sampling Type:	Soil
Project Name:	MALLON 35 FED #714	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		
		٠.	

Sample ID: SP #2 EAST WALL (H201939-06)

BTEX 8021B	mg/	'kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	08/23/2012	ND	1.85	92.6	2.00	6.90	
Toluene*	<0.050	0.050	08/23/2012	ND	1.90	95.1	2.00	5.61	
Ethylbenzene*	<0.050	0.050	08/23/2012	ND	1.92	96.0	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/23/2012	ND	6.32	. 105	6.00	4.14	
Surrogate: 4-Bromofluorobenzene (PIL	100.5	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/21/2012	ND	416	104	400	3.92	
TPH 8015M	mg/	kg	Analyze	d By: MS	,	<u> </u>			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/22/2012	ND	204	102	200	14.0	
DRO >C10-C28	<10.0	10.0	08/22/2012	ND	210	105	200	15.5	
Surrogate: 1-Chlorooctane	106 9	65.2-14	0						
Surrogate: 1-Chlorooctadecane	1019	63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager

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Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/17/2012	Sampling Date:	08/17/2012
Reported:	08/24/2012	Sampling Type:	Soil
Project Name:	MALLON 35 FED #714	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP #2 WEST WALL (H201939-07)

BTEX 8021B	mg,	'kg	Analyze	d By: AP			I		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	08/22/2012	ND	1.85	92.6	2.00	6.90	
Toluene*	<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61	
Ethylbenzene*	<0.050	0.050	08/22/2012	ND	1.92	96.0	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4,14	
Surrogate: 4-Bromofluorobenzene (PIL	103 5	% 89.4-12	6		• •				
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	32.0	16.0	08/21/2012	ND	416	104	400	3.92	
TPH 8015M	mg/	'kg	Analyze	d By: MS	•		i.		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
	Result <10.0	Reporting Limit	Analyzed 08/22/2012	Method Blank	вs 204	% Recovery 102	True Value QC 200	RPD 14.0	Qualifie

63.6-154

Surrogate: 1-Chlorooctadecane 112 %

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Analytical Results For:

Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/17/2012	Sampling Date:	08/17/2012
Reported:	08/24/2012	Sampling Type:	Soil
Project Name:	MALLON 35 FED #714	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodí Henson
Project Location:	NOT GIVEN		s

Sample ID: SP #3 BOTTOM @ (H201939-08)

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	08/22/2012	ND	1.85	92.6	2.00	6.90	
<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61	
<0.050	0.050	08/22/2012	ND	1.92	96.0	2.00	5.60	
<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14	
	<0.050 <0.050 <0.050	<0.050 0.050 <0.050 0.050 <0.050 0.050	<0.050	<0.050 0.050 08/22/2012 ND <0.050 0.050 08/22/2012 ND <0.050 0.050 08/22/2012 ND	<0.050 0.050 08/22/2012 ND 1.85 <0.050	<0.050 0.050 08/22/2012 ND 1.85 92.6 <0.050	<0.050	<0.050

Surrogate: 4-Bromofluorobenzene (PIL 100 % 89.4-126

Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM		· · · · · · · · · · · · · · · · · · ·	. ·		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/21/2012	ND	400	100	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	08/22/2012	ND	204	.102	. 200	14.0	
DR0 >C10-C28	68.8	10.0	08/22/2012	ND	210	105	200	15.5	
Surrogate: 1-Chlorooctane	121 9	% 65.2-140)	·.			÷ .		
Surrogate: 1-Chlorooctadecane	110 9	63.6-154	1						x.
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Analytical Results For:

Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/17/2012	Sampling Date:	08/17/2012
Reported:	08/24/2012	Sampling Type:	Soil
Project Name: (MALLON 35 FED #714	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP #3 EAST WALL (H201939-09)

BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2012	ND	1.85	92.6	2.00	6.90	
Toluene*	<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61	
Ethylbenzene*	<0.050	0.050	08/22/2012	ND	1.92	96.0	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14	

Surrogate: 4-Bromofluorobenzene (PIC 101 % 89.4-126

Chloride, SM4500Cl-B	mg,	/kg	° Analyze	d By: HM		•			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/21/2012	ND	400	100	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	08/22/2012	ND	204	102	200	14.0	
DRO >C10-C28	<10.0	10.0	08/22/2012	ND	210	105	200	15.5	
Surrogate: 1-Chlorooctane	99.7	% 65.2-14	0						· · · · · · · · · · · · · · · · · · ·
Surrogate: 1-Chlorooctadecane	91.3	% 63.6-15	4						

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Celuz D. Kune

Celey D. Keene, Lab Director/Quality Manager

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

Analytical Results For:

		Anal	ytical Resu	its For:					
		VE P.C Ho	ngry Horse Env RNON BLACK D. Box 1058 bbs NM, 88240 < To: (505	. ·			2 5 - - -		
Received: Reported: Project Name: Project Number: Project Location:	08/17/20 08/24/20 MALLON NONE GI NOT GIV	012 35 FED #714 IVEN		Sai Sai	npling Da npling Ty npling Ca nple Rec	/pe:	08/17/2 Soil Cool & Jodi He	Intact	
Sample ID: SP #3 WEST WAL							:		
BTEX 8021B	mg,	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2012	ND	1.85	92.6	2,00	6.90	
Toluene*	<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61	
Ethylbenzene*	<0.050	0.050	08/22/2012	ND	1.92	96.0	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14	
Surrogate: 4-Bromofluorobenzene (PIL	102	% 89.4-12	6	,					
Chloride, SM4500Cl-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	<16.0	16.0	08/21/2012	ND	400	100	400	0.00	
TPH 8015M	mg,	/kg	Analyze	d By: MS			4		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/22/2012	ND	204	102	200	14.0	
DRO >C10-C28	32.8	10.0	08/22/2012	ND	210	105	200	15.5	
Surrogate: 1-Chlorooctane	87.2	% 65.2-14	0						·····
Surrogate: 1-Chlorooctadecane	80.9	% 63.6-15	. 4				1		
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Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/17/2012	Sampling Date:	08/17/2012
Reported:	08/24/2012	Sampling Type:	Soil
Project Name:	MALLON 35 FED #714	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP #4 BOTTOM @ 7' (H201939-11)

mg/	kg	Analyze	d By: AP					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	08/22/2012	ND	1.85	92.6	2:00	6.90	
<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61	
<0.050	0.050	08/22/2012	ND	1.92	96.0	2.00	5.60	
<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14	
98.5 5	89.4-12	6						
mg/	kg	Analyze	d By: HM					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
32.0	16.0	08/21/2012	ND	400	100	400	0.00	•
	Result <0.050 <0.050 <0.050 <0.150 98.5 9 mg/ Result	<0.050 0.050 <0.050 0.050 <0.050 0.050 <0.150 0.150 98.5 % 89.4-120 mg/kg Result Reporting Limit	Result Reporting Limit Analyzed <0.050	Result Reporting Limit Analyzed Method Blank <0.050	Result Reporting Limit Analyzed Method Blank BS <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC <0.050	Result Reporting Limit Analyzed Method Blank BS % Recovery True Value QC RPD <0.050

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	08/22/2012	ND	204	102	200	14.0	
DRO >C10-C28	<10.0	10.0	08/22/2012	ND	210	105	200	15.5	
Surrogate: 1-Chlorooctane	75.2	% 65.2-14	0			·+			
Surrogate: 1-Chlorooctadecane	82.6	% 63.6-15	4						

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Celey D. Keene, Lab Director/Quality Manager

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Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/17/2012	Sampling Date:	08/17/2012
Reported:	08/24/2012	Sampling Type:	Soil
Project Name:	MALLON 35 FED #714	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP #4 EAST WALL (H201939-12)

BTEX 8021B	· mg/	/kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	08/22/2012	ND	1.85	92.6	2.00	6.90	
Toluene*	<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61	
Ethylbenzene*	<0.050	0.050	08/22/2012	ND	1.92	96.0	2,00	5.60	•
Total Xylenes*	<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14	
Surrogate: 4-Bromofluorobenzene (PIL	99.7	% 89.4-12	6			<u> </u>			
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: HM				<u></u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/21/2012	ND	400	100	400	0.00	
TPH 8015M	mg/	'kg	Analyze	d By: MS			i		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/22/2012	ND	204	102	200	14.0	
DRO >C10-C28	<10.0	10.0	08/22/2012	ND	210	105	200	15.5	
Surrogate: 1-Chlorooctane	98.6	% 65.2-14	0						<u> </u>
Surrogate: 1-Chlorooctadecane	97.8	63.6-15	4						

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Celey D. Kune

Celey D. Keene, Lab Director/Quality Manager

CARDINAL Laboratories

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

Analytical Results For:

Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/17/2012	Sampling Date:	08/17/2012
Reported:	08/24/2012	Sampling Type:	Soil
Project Name:	MALLON 35 FED #714	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		
		,	

Sample ID: SP #4 WEST WALL (H201939-13)

BTEX 8021B	mg/	kg	Analyze	d By: AP				·	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/22/2012	ND	1.85	92.6	2.00	6.90	
Toluene*	<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61	
Ethylbenzene*	<0.050	0.050	08/22/2012	ND	1.92	96.0	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14	
Surrogate: 4-Bromofluorobenzene (PIL	100 %	6 89.4-12	6				}		
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM	:				. •
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	16.0	16.0	08/21/2012	ND	400	100	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	08/21/2012	ND	191	95.4	200	1.37	
DRO >C10-C28	22.2	10.0	08/21/2012	ND	192	95.8	200	3.35	
Surrogate: 1-Chlorooctane	. 86.6 %	65.2-14	0	,			i.		
Surrogate: 1-Chlorooctadecane	91.3 9	63.6-15	4				•	,	
			,						

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Celez Di Keine



Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/17/2012	Sampling Date:	*08/17/2012
Reported:	08/24/2012	Sampling Type:	Soil
Project Name:	MALLON 35 FED #714	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		1

Sample ID: SP #5 BOTTOM @ 5' (H201939-14)

BTEX 8021B	mg,	kg	Analyze	d By: AP			\$\$	· <u> </u>	
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	08/22/2012	ND	1.85	92.6	2.00	6.90	
Toluene*	<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61	
Ethylbenzene*	<0.050	0.050	08/22/2012	ND	1.92	96.0	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14	
Surrogate: 4-Bromofluorobenzene (PIL	99.7	% 89.4-12	6						
Chloride, SM4500Cl-B	mg/	′kg ·	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Chloride	16.0	16.0	08/21/2012	ND	400	100	400	0.00	
ТРН 8015М	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	08/21/2012	ND	191	95.4	200	1.37	
DRO >C10-C28	39.4	10.0	08/21/2012	ND	192	95.8	200	3.35	
Surrogate: 1-Chlorooctane	84.7	% 65.2-14	0	•			1		

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Surrogate: 1-Chlorooctadecane

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Celey D. Keene, Lab Director/Quality Manager



Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/17/2012	Sampling Date:	08/17/2012
Reported:	08/24/2012	Sampling Type:	Soil
Project Name:	MALLON 35 FED #714	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP #5 EAST WALL (H201939-15)

BTEX 8021B	mg/	kg	Analyze	d By: AP						
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie	
Benzene*	<0.050	0.050	08/22/2012	ND	1.85	92.6	2.00	6.90		
Toluene*	<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61		
Ethylbenzene*	<0.050	0.050	08/22/2012	ND	1.92	96.0	2.00	5.60		
Total Xylenes*	<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14		
Surrogate: 4-Bromofluorobenzene (PIL	<i>99.8</i>	% 89.4-12	6			····				
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM			· ·			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
Chloride	<16.0	16.0	08/21/2012	ND	400	100	400	0.00		
TPH 8015M	mg/	kg	Analyze	d By: MS			1			
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier	
GRO C6-C10	<10.0	10.0	08/22/2012	ND	204	102	200	14.0		
DRO >C10-C28	<10.0	10.0	08/22/2012	ND	210	105	200	15.5		
Surrogate: I-Chlorooctane	88.1	65.2-14	0				· · ·			
Surrogate: 1-Chlorooctadecane	93.1	63.6-15	4							

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Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240 Fax To: (505) 391-4585

Received:	08/17/2012	Sampling Date:	08/17/2012
Reported:	08/24/2012	Sampling Type:	Soil
Project Name:	MALLON 35 FED #714	Sampling Condition:	Cool & Intact
Project Number:	NONE GIVEN	Sample Received By:	Jodi Henson
Project Location:	NOT GIVEN		

Sample ID: SP #5 NORTH WALL (H201939-16)

BTEX 8021B	mg/	kg	Analyze	d By: AP					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifie
Benzene*	<0.050	0.050	08/22/2012	ND	1.85	92.6	2.00	6.90 [′]	
Toluene*	<0.050	0.050	08/22/2012	ND	1.90	95.1	2.00	5.61	
Ethylbenzene*	<0.050	0.050	08/22/2012	ND	1.92	96.0	2.00	5.60	
Total Xylenes*	<0.150	0.150	08/22/2012	ND	6.32	105	6.00	4.14	
Surrogate: 4-Bromofluorobenzene (PIL	99.1	% 89.4-12	6	•			· · · · · · · · · · · · · · · · · · ·		
Chloride, SM4500Cl-B	mg/	kg	Analyze	d By: HM					-
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	. % Recovery	True Value QC	RPD	Qualifier
Chloride	400	16.0	08/21/2012	ND	400	100	400	0.00	
TPH 8015M	mg/	kg	Analyze	d By: MŚ			!		
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10 ,	<10.0	10.0	08/22/2012	ND	204	102	200	14.0	
DRO >C10-C28	<10.0	10.0	08/22/2012	ND	210	105	200	15.5	
Surrogate: 1-Chlorooctane	90.1	65.2-14	0						
Surrogate: 1-Chlorooctadecane	97.8	63.6-15	4				``		

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Celey D. Keene, Lab Director/Quality Manager

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 (575) 393-2326 FAX (575) 303-2476

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1	P.0. #:	Company:	Attn:	Address:	City:	State: Zip:	#	Fax #:	PRESERV SAMPLING	01 35		1/ 8-11-145	11 SAVE 555 V 1 X	1 8.11. 40. W/XX	1 8112av V/X	X / 1 21/19/10/1 X X	11 8114915 N / X		and so that the second action is the second se	e verte constructione menta verte, comparatana o tara appresable s of tase, y conservatione programmenta de la cupacitalistica. 36 ed upon any of the above state a transpire or or horizone.	Phone Result: 0 Yes 0 No Fax Result: 0 Yes 0 No REMARKS. 3	wour - Const Cler	CHECKED/BY: (Initials)	5.309.2416
Company Name: 14.14.1 16.52 5. 11.18	Carl Carl Carlow		/ State:{\\/\/\Zip: \$\}_}↓()	Phone #: Fax #: A	Project #: Project Owner: / // C		Project Location: Ma No. 35 Fc of 714 P	Chenne Pour	MATRIX		t CONL	Sotty Button Og 61	WHILL EAS	But the still all	BUT S BUDNES	2 Port S ECAST WALL III	Potto Northwall 61		PLEASE NOTE: Liability and Demages. Cardinal's leakily and clerity exclusive remeary for any clean acting whether tasked in couract of analysees. All claims inclusing thoses for transformer and aim of the evolution evolution of the action of the a	nages, including without fimitation, b héreundét by Cardinal, ragarolessi	Pare 1 Regelved By:	Rolinquished by: Date: Riceived By: WW.	Dolivered By: (Circle One) Sample Condition Sampler - UPS - Bus - Other:	jes t

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PHONE (575) 393-2326 ° 101 E. MARLAND ° H	OBBS, NM 88240
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Sampling Date: Sampling Type: Sampling Condition: Sample Received By:

Jodi Henson

Soil

08/27/2012

** (See Notes)

RECEIVED

Sample ID: SP #5 NORTH WALL (H202054-01)

08/27/2012

08/28/2012

NONE GIVEN

MALLON 35 FED H

LEA COUNTY, NM

Received:

Reported:

Project Name:

Project Number:

Project Location:

Chloride, SM4500Cl-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	32.0	16.0	08/28/2012	ND	416	104	400	0.00	

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CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NW 88240

(575)	(575) 393-2326 FAX (575) 393-2476		Ì
Company Name:		ANALYSIS REQUEST	
Project Manager:	Little Martine Martine Contraction	P.O. #;	_
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Page 4 of 4

† Cardinat cannot accept verbal changes. Please fax written changes to 505-393-2476

Attachment 3

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NMCRIS INVESTIGATION ABSTRACT FORM (NIAF)

1. NMCRIS Activity No.:	2a. Lead Agency:	2b. Other Agency	(ies):	3. Lead A	Agency	Report No.:
124848	US Bureau of Land Management Carlsbad Field Office					
4. Title of Report:				}	5 Tvp	e of Report
-	ogical Survey for an Oil Spill at	the Mallon 35 Fed #7			Neg	-
					Pos	luve
Author(s)						
Hill, Rebecca L.			,			
6. Investigation Typ	De .			l		
Research Design	Archaeological Survey/In	ventoryArchitectural Su	rvey/inventory	Test Exc	avation	Excavation
	ield Study Compliance De	ليسب				
ليبعنا	dy Site/Property Specific			Other		
7. Description of U	dertaking (what does the p					
A pedestrian cultura experienced an oil s NM. Hungry Horse informed by BLM Ca the spill and determi	I resources survey was conduct pill which originated from the M Environmental was employed trisbad that the spill was on the ne the distance from the spill to pical site On 23. July 2012 th	roject entail?): cted on 24 Jul 2012 for an of Aallon 35 Fed #7 well which by Cimarex to clean-up the e edge of an archaeological o the archaeological site er	n is located in T1 e spill. Hungry H I site. Boone Ar Isuring the spill a	9S R34E S Horse contain the Services and the clear	ection 3 Incted Bl Is was re In-up pl	35 in Lea County, M and was equested to map rocess did not
A pedestrian cultura experienced an oil s NM. Hungry Horse informed by BLM Ca the spill and determi affect the archaeolo would take them the initial data verificatio	I resources survey was conduc pill which originated from the M Environmental was employed insbad that the spill was on the ne the distance from the spill t gical site. On 23 July 2012, the rest of July 23, the spill location in that several cultural surveys d archaeologist requested a sur-	roject entail?): cted on 24 Jul 2012 for an of Aallon 35 Fed #7 well which by Cimarex to clean-up the e edge of an archaeological o the archaeological site er ne spill was mapped. As H onal data was plotted and for were within the area of the	n is located in T1 e spill. Hungry H I site. Boone Ar nsuring the spill a lungry Horse had prwarded to BLM spill and that LA	9S R34E S Horse conta ch Services and the clea d approval I Carlsbad. A 20282 wa	ection 3 acted Bl s was re an-up pl to remo It was s locate	35 in Lea County, M and was equested to map rocess did not ve the liquid whic noted during ed 170' from the
A pedestrian cultura experienced an oil s NM. Hungry Horse informed by BLM Ca the spill and determi affect the archaeolo would take them the initial data verificatio spill. BLM Carlsbac	I resources survey was conduc pill which originated from the M Environmental was employed insbad that the spill was on the ne the distance from the spill t gical site. On 23 July 2012, the rest of July 23, the spill location in that several cultural surveys d archaeologist requested a sur-	roject entail?): cted on 24 Jul 2012 for an of Mallon 35 Fed #7 well which by Cimarex to clean-up the e edge of an archaeological o the archaeological site er ne spill was mapped. As H onal data was plotted and for were within the area of the prvey around and across the	n is located in T1 e spill. Hungry H I site. Boone Ar nsuring the spill a lungry Horse had orwarded to BLN e spill and that LA e spill ensuring th	9S R34E S Horse conta ch Service: and the clea d approval l Carlsbad. A 20282 wa hat LA 2028	ection 3 acted Bl s was re an-up pi to remo It was s locate 32 was [35 in Lea County, M and was equested to map rocess did not ve the liquid whic noted during ed 170' from the
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14. Client/Customer Project No.:	
Address: P.O. Box 1058, Hobbs NM 88241	Phone:
Contact: Vernon Black	
Hungry Horse Environmental	· · ·
13. Client/Customer (project proponent):	

15. Land Ownership Status (must be indicated on project map):

Land Owner (By Agency)		Acres Surveyed	Acres in APE
US Bureau of Land Management Carlsbad Field Office		3.48	1.48
	TOTALS	3.48	1.48

16. Records Search(es):

Date(s) of HPD/ARMS.File Revie	ew: 24Jul2012	Name of Review	er(s): Rebecca Hill	
Date(s) of Other Agency File Re	view:24Jul2012	Name of Review	er(s): Rebecca Hill	Agency: BLM Carlsbad
	·····			
7. Survey Data:				
. Source Graphics [] NA	_] NAD 83	Note: NAD 83 is t	he NMCRIS standard.
USGS 7.5' (1:24,000) topo	J			
GPS Unit Accuracy	1.0m 1-10m	10-100m]>100m	Aerial Photo(s)
Other Source Graphic(s):				,
h USGE 7 5' Topographic Ma	n Nomo			USGS Quad Code
b. USGS 7.5' Topographic Ma				
Lea, NM				32103-E5
. County(ies): LEA				
		<i>,</i>		
I. Nearest City or Town: Hob	be NM			
•	DS, MW			
Legal Description:				
Township (N/S)	Range (E/V	V)	Section	
19S	34E		35	
			34	
19S	34E		0.	

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Configuration: Jolock survey units		
Tother survey units (specify):		
	rties recoi	ded)
Coverage Method: Systematic pedestrian coverage		
Other method (describe): Survey Interval (m): 15 Crew Size: 1 Fieldwork Dates: from: 23-Jul-2012	to: 23-Ju	L2012
Survey Person Hours: 1.00 Recording Person Hours: Total Hour Additional Narrative:	5. 1.00	
Two known archaeological sites are located with ¼ of a mile of the project area: LA 20282 and LA 72 70' from the surveyed area and 170' from the spill. LA 72393 is located 974 feet southeast of the spill. site will not be affected by the clean-up process. See table on page 5.	393. LA 2 LA 20282	0282 is located and LA 72393
	[] Continuation
19. Environmental Setting (NRCS soil designation; vegetative community; elevation; etc.):	· · · · · · · · · · · · · · · · · · ·	<u> </u>
Soils are described by NRCS on-line data base as Pyote and maljamar fine sands which are capable of dropseeds, and bluestem grasses, sand sage and shinnery oak. Today the vegetation consists of shin weed yucca, mesquite and some desert grasses. No known permanent water source is close to the pr	inery oak,	winter-fat, soap
	· .	
	L] Continuation
20.a. Percent Ground Visibility: 70% b. Condition of Survey Area (grazed, bladed, u	l Indistribu	
20.a. Percent Ground Visibility: 70% b. Condition of Survey Area (grazed, bladed, u This is an active oil and gas field with several access roads, well pads, pipelines and power lines cross		ited, etc.):
	ing the ar	ted, etc.): ea.
This is an active oil and gas field with several access roads, well pads, pipelines and power lines cross	ing the ar [v No, but located	Ited, etc.): ea. Continuation discuss why: d outside of the
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25. Reviewing Agency Reviewer's Name/Date: 25. Reviewer's Name/Date: 26. SHPO Reviewer's Name/Date 26. SHPO 26. SHP	Principal Investigator/Qualified Supervisor: Printed N	ame: Rebecca L. Hill
Reviewer's Name/Date: Reviewer's Name/Date: Accepted [] Rejected [] HPD Log #: Date sent to ARMS: CULTURAL RESOURCE FINDINGS [fill in appropriate section(s)] SURVEY RESULTS: Archaeological Sites discovered and registered: () Archaeological Sites discovered and NOT registered: () Previously recorded archaeological sites revisited (site update form required): () Previously recorded archaeological sites not relocated (site update form required): () TOTAL ARCHAEOLÓGICAL SITES (visited & recorded): () X Non-selective isolate recording? HCPI properties discovered and NOT registered: () X Non-selective isolate recording? HCPI properties discovered and Registered: () X Non-selective isolate recording? HCPI properties discovered and NOT registered: () Previously recorded HCPI properties revisited: () Previously recorded HCPI properties revisited: () Total HCPI properties discovered and registered: () Non-selective isolate recorded! () Total HCPI ProPERTIES (visited & recorded, including acequias): () MANAGEMENT SUMMARY: No cultural resources are discovered duing the survey: therefore, it is recommended the clean-up process be approved. If cultural resources are discovered at any time during the clean-up should cease and BLM Carisbad notified. [] Continuation [] Continuation	Signature: Million Juli Date: 2	7Jul2012 Title: Principal Investigator
Accepted [] Rejected [] HPD Log #: Date sent to ARMS: CULTURAL RESOURCE FINDINGS [fill in appropriate section(s)] SURVEY RESULTS: Archaeological Sites discovered and registered: () Archaeological Sites discovered and NOT registered: () Previously recorded archaeological sites revisited (site update form required): () Previously recorded archaeological sites not relocated (site update form required): () TOTAL ARCHAEOLOGICAL SITES (visited & recorded): () TOTAL ARCHAEOLOGICAL SITES (visited & recorded): () TOTAL ARCHAEOLOGICAL SITES (visited & recorded): () TOTAL HCHAEOLOGICAL SITES (visited & recorded): () TOTAL HCHI PROPERTIES (visited & recorded): () TOTAL HCHI PROPERTIES (visited & recorded): () TOTAL HCHI PROPERTIES (visited & recorded, including acequias): () MANAGEMENT SUMMARY: No cultural resources are discovered during this survey: therefore, it is recommended the clean-up process be approved. If cultural resources are discovered at any time during the clean-up should cease and BLM Carisbad notified. If cultural resources are discovered at any time during the clean-up should cease and BLM Carisbad notified.	25. Reviewing Agency	26. SHPO
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IF REPORT IS NEGATIVE, YOU ARE DONE AT THIS POINT.		[] Continuation
		· ·
	URVEY LA/HCPI NUMBER LOG	

Sites/Properties Discovered:

LA/HCPI No.

Field/Agency No.

Eligible? (Y/N/U, applicable criteria)

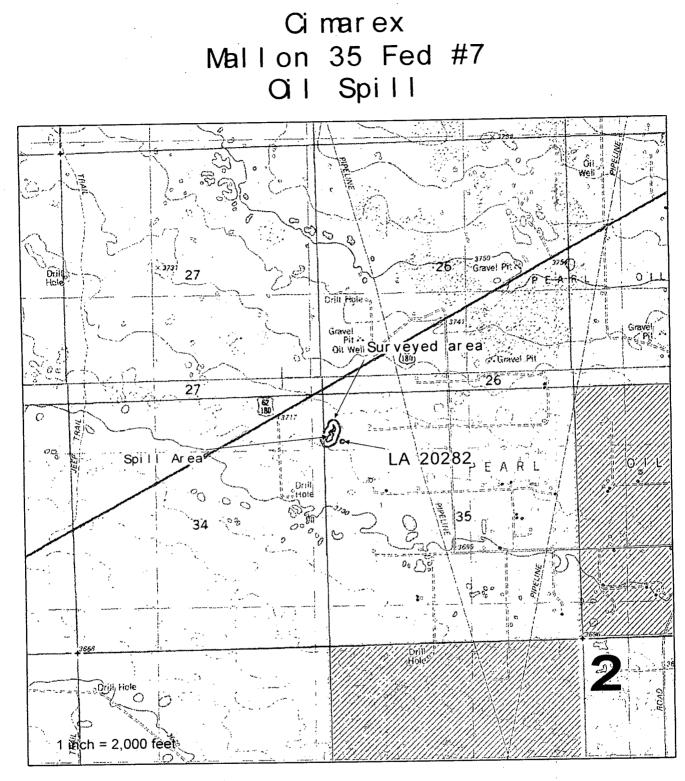
NMCRIS No.:	124848			
Previously reco	orded revisited sites/HCPI properties:			
LA/HCPI No.	Field/Agency No.	Eligible?	(Y/N/U, applicable cri	teria)
		•		
	A NUMBER LOG (site form required)			
Sites Discovere	ed (site form required):	Previously reco	rded sites (site updat	te form required):
LA No.	Field/Agency No.	LA No.	Field/Agency No.	
Areas outside I	known nearby site boundaries monitored?	[]Yes		[] No, Explain why:
TESTING & EX	CAVATION LA NUMBER LOG (site form req	uired)		
Tested LA num	iber(s)	Excavated LA n	umber(s)	

Table 1: Known archaeological sites with ¹/₄ of a mile

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LA No.	Cultural/Temporal Affiliation	Eligibility
20282	Unknown Aboriginal (9500 BC - 1880 AD)	Undetermined
72393	Unknown Aboriginal (9500 BC - 1880AD)	Undetermined

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Legend

BLM BOR

DOE

Forest BO1 NM State Game & Fish

NM State Park Spil_Boundary

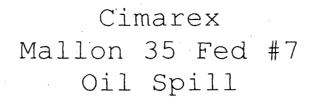
Malon 35 Fed #7

LA_20282

Lea 32103-E5 T19S R34E Sections 34 & 35

1:24,000

BASNM 07-12-34 NMCRIS 124848





Legend

LA_20282 Malion 35 Fed #7 Lea 32103-E5 T19S R34E Sections 34 & 35

1:10,000

BASNM 07-12-34 NMCRIS 124848

Attachment 4

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 <u>District II</u> 811 S. First St., Artesia, NM 88210 <u>District III</u> 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. Form C-141 Revised August 8, 2011

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

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1220 S. St. Fran	icis Dr., Santa	a Fe, NM 87505	5	Sa	nta Fe	e, NM 87:	505		1			
			Rele	ease Notific	atior	and C	orrective A	ctior)			
						OPERA	TOR		P Init	, ial Report		Final Report
Name of Co	ompany	(;NAR	EX 0	ENENGY			JOHN O)sbo/				
Address		W. BENO			M	Telephone	No. 575-3	390 -	8978			
Facility Nat	me <i>MA</i>	11/02/ 35	FED	#7		Facility Ty	De TANKE	BAH	Ercy			
Surface Ow	ner			Mineral O	wner		-		API N	0.		
				LOCA	IOIT.	NOF RE	LEASE				,	
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/V	West Linè	County		
D	35	195	34Ē	585'	FI	VL	330'	FU	NL	LEA	L .	
	±		La	titude 32° 37.	343'	Longitud	le /03° 32.	2.91'				
		.•							246 00.	151		
Type of Rele	ase 01/	+ WAte	EN	INAI	UKE	Volume of	EASE 200 01 Release	<i>i</i> 1		Recovered		
Source of Re		1 101.10	· ·	· · · · · · · · · · · · · · · · · · ·			Hour of Occurrence	ce ?			coverv	7-23-12 @ 5
Was Immedi		iven?		.		If YES, To	Whom?		1			
		•] No 🗌 Not Re	quired		Lecking				2	
By Whom?		Osbon	NE			Date and H	Iour <u>7-23</u>	3-12		1:15		
Was a Water	course Reac		Yes 🔄	No		If YES, V	olume Impacting t	the Wate	ercourse.			
If a Watercou	urse was Imp	oacted. Descr	ibe Fully.'	k		<u>.</u>						
			-									
									1. 4			
									:			
Describe Cau	ise of Proble	em and Reme	dial Actio	n Taken.* WEll All tamtes y	WAS	FRAC'd.	into By Co	Ncho	0:1+6	AS - (w	24/	Petel
36 STATE	#2#),	PUNPER	Found	All tANtes y	+ const	سقيا أسوسي ومراجد أرقوا	RUNNing ou	sīn -	Stoffer	NS Box	ດມ ພ	Ell hand
Blown Out	F.	, ,							B :			
					<u></u>							
Describe Are	a Affected a	Ind Cleanup A	Action Tak	cen.* APPROX. VACUUM truck	MATE	14 500' 6	ong And 75'	w;dЭ	At Long	ESt, Aud,	wides	= paints
Picting U	ישיגר דבטט עיברים ה	, הסתק זם ניק' אנקניבנ	OB CHURT	VACOUM TROCZ	S ANG	stoppens	RUN OFE into	PAST	Unt [±] , <u>⊼</u> 	MMEdiAte	ly st	inizod
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T h	f, that the it	formation ai	van obove	is true and compl	ata ta th	a bast of my	knowledge and w	ndorstor	i ad that min	and to NIM		
-	•	-		nd/or file certain re			-					
public health	or the envir	onment. The	acceptanc	ce of a C-141 repo	rt by the	NMOCD m	arked as "Final Re	eport" d	oes not re	lieve the oper	ator of	liability
should their o	perations ha	ave failed to a	adequately	investigate and re stance of a C-141 r	emediate	e contaminat	ion that pose a three	eat to gr	ound wate	er, surface wa	ter, hun	nan health
federal, state.				nance of a C-141 I	epon d	·	e the operator of r	responsi		compliance w	iin any	other
ioderai, state.	1.	\bigcirc	<u>`````````````````````````````````````</u>				OIL CONS	SERV	ATION	DIVISIO	N	
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Signature: (16-1200	م	NE	· ·						· · · ·		
Printed Name	:: <u>30/</u>	IN P.	<u> </u>	BORNE		Approved by	Environmental S	pecialisi	"Heaff	<u>Z Lelkin</u>	<u>y</u>	
Title: Fe	ONEMI	121		•		Approval Da	te: 7/24/12	_]]	Expiration	Date: 9/24	11Z	
E-mail Addre	ss coc	hora F (2/1	IANEX, CO			f Approval: SUB		FINAL	-		
		<u></u>		5.75-39.85			3Y 912411			Attached		- 61
	-23-1			5.75-39.85	718					1RP-7	-12-	2842
Attach Addi	tional Shee	ts If Necess	ary				•		· · ·			

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						
	initial Report X Final Report					
Name of Company Cimarex Energy Contact John Osborne						
Address 2020 W Bender Blvd, Hobbs, NM Telephone No. 575-390-8978						
Facility Name Mallon 35 Federal 7H Facility Type Tank Battery						
Surface Owner BLM Mineral Owner API	No. 30-025-40086					
LOCATION OF RELEASE						
Unit Letter Section Township Range Feet from the North/South Line Feet from the East/West Line	e County					
D 35 198 34E	Lea					
Latitude N32.6226 Longitude W103.5385						
NATURE OF RELEASE						
	e Recovered 259 bbls oil					
246 Water	100 bbls water					
	nd Hour of Discovery					
23July12 Hour-Unknown 23Jul Was Immediate Notice Given? If YES, To Whom?	v12 0910 hrs					
X Yes No Not Required Geoffrey Leking, NM OCD						
By Whom? John Osborne Date and Hour 23July12 1115 hrs						
Was a Watercourse Reached? If YES, Volume Impacting the Watercourse						
Yes X No N/A						
If a Watercourse was Impacted, Describe Fully.*	· · · · · · · · · · · · · · · · · · ·					
N/A						
Describe Cause of Problem and Remedial Action Taken.* Well was fracked into by Concho Operating (West Pear						
tanks and containment running over. The stuffing box on well head was blown out. Vac Trucks were dispatcher líquid. Upon completion of the removal of the liquid, an excavator was dispatched to start the removal and stock						
was dumped and spread on the location to aid in the absorption of the liquid. The tanks and containment walls w						
Describe Area Affected and Cleanup Action Taken.*						
The affected area off the location was to the southwest of the location and was approximately 440'L x 75'W. A re						
submitted to NM OCD and BLM and approved by each party. The affected area off the location was excavated t samples for 6 sample points were obtained and lab analysis for Chlorides, TPH, and BTEX was conducted. Lab						
were present. The location was bladed in order to stockpile and remove approximately 3"-5" of material and the						
lab results were presented to NM OCD's Geoffrey Leking and closure approval was given. The excavated area w						
from a nearby source, contoured to match the surrounding terrain, and seeded with a BLM #2 seed mixture.						
I hereby certify that the information given above is true and complete to the best of my knowledge and understand that	we much to NIMOCD miles and					
regulations all operators are required to report and/or file certain release notifications and perform corrective actions for						
public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not						
should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground w	ater, surface water, human health					
or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility f	or compliance with any other					
federal, state, or local laws and/or regulations.						
<u>OIL CONSERVATIO</u>	N DIVISION					
Signature: Jahn & Worme						
Printed Name: John P. Osborne Approved by Environmental Specialist:	Re Lehina					
Title: Foreman Approval Date: 92412 Expirat	on Date: -					
E-mail Address: josborne@cimarex.com Conditions of Approval:						
I B-MAIL ADDRESS: IOSDOFDE//DFIMAFEY COM	Attached					

 Date:
 21Sept12
 Phone:
 575-390-8978

 * Attach Additional Sheets If Necessary

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