<u>District I</u> 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

Date: 5-//-/2 F
\* Attach Additional Sheets If Necessary

Phone: 575-396-8978

# State of New Mexico Energy Minerals and Natural Resources

Form C-141 Revised August 8, 2011

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

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

Release Notificat	ion and Corrective Action	
	OPERATOR 🖂 1	nitial Report  Final Repor
Name of Company CIMAREX	Contact JOHN OSBORNE	
Address	Telephone No. 575-390-897	8
Facility Name (EA "AQ" #7	Facility Type oil well Flow lie	
Surface Owner FAYE KliNE Mineral Own	er API	No. 30-025-32640
LOCATI	ON OF RELEASE	
Unit Letter   Section   Township   Range   Feet from the   No	orth/South Line Feet from the East/West Li	ne County
K 29 195 35E 1650	South 1650 WEST	- LEA
Latitude N 32° 37,	639 Longitude W 103°29. 030	
	RE OF RELEASE	
Type of Release 0! / + water	Volume of Release 75 BB s Volum	ne Recovered
Source of Release Flowline LZAK		and Hour of Discovery 5/11/12
Was Immediate Notice Given?	If YES, To Whom?	7,770
▼ Yes □ No □ Not Requir	ed JEFF LEXING	
By Whom? JOHN OSBORNE	Date and Hour	
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse	2.
☐ Yes ☑ No		
If a Watercourse was Impacted, Describe Fully.*	*	
Describe Cause of Problem and Remedial Action Taken.*		
		4 5 6 1 4 3
Describe Area Affected and Cleanup Action Taken.*		
I hereby certify that the information given above is true and complete to	o the best of my knowledge and understand that r	oursuant to NMOCD rules and
regulations all operators are required to report and/or file certain release		
public health or the environment. The acceptance of a C-141 report by	the NMOCD marked as "Final Report" does not	relieve the operator of liability
should their operations have failed to adequately investigate and remed		
or the environment. In addition, NMOCD acceptance of a C-141 report	t does not relieve the aperator of reapparailities for	
federal, state, or local aws and/or regulations.		
Signature: John. F. Shorm		
- 110 A1 =	Approved AFF	OVED
Printed Name: SOHN F. USSORNE	alely	
Title: FOREMAN	Approval Date: 25 16   Expiration	on Date:
E-mail Address: 5 OSBORNEC CIMAREX. COM	Conditions of Approval:	Attached □
Date: 5-11-12 Phone: 575-396-8978		Attached U

# HUNGRY HORSE, LLC ENVIRONMENTAL SERVICES

Dirt Work \* On-Site Remediation \* Soil Testing \* Excavation

May 20, 2012

1

To: Geoff Leking

Reference: Remediation Work Plan

Operator: Cimarex Location: AQ Lea # 007 API: 30-025-32640

Legals: Unit K, Sect. 29, T19S, R35E

GPS: 32.6275 -103.48386

# **Background Information**

The AQ Lea # 007 is located 25 miles east of Hobbs, New Mexico and one mile south of 62/180 between MM 84-85. It located approximately 50 ft. east of the fence line which runs parallel to the cliché road. The spill is located in gentle rolling sand dunes. Based upon the Lea County Depth to Groundwater Map, the depth to groundwater is <50'. This spill began on the upward slope of a dune and ran downward and pooled approximately 165' from the point of release. The spill remained narrow except for the location of the pooling. The site is measured approximately 165' X 20'.

Depth to Groundwater <50'
Distance to Surface Body of Water >1000'
Wellhead Protection Area >1000'

# **Current Work Completed**

Upon discovery of the release, Hungry Horse, LLC was notified and remedial action to contain the release was started. We removed the saturated soil down to approximately 3' BGS. This material was stockpiled and then hauled to a division approved disposal facility. A vertical delineation was conducted to determine the downward penetration of the contaminants. See the attached field test results along with the lab analysis of the bottom samples.

# **Remediation Work Plan Proposal**

Due to the depth of groundwater, I am proposing to remediate the affected area using the dig and haul method. All contaminated soil will be mechanically excavated, stock piled, and transported to a division approved disposal facility. The affected area will be sampled with lab analysis conducted for chlorides. Lab results will be presented to NM OCD for closure approval. Upon receipt of closure approval, the excavated area will be backfilled with clean material, contoured to match the surrounding area, and seeded with a custom seed mixture.

Vernon K. Black, Hungry Horse, LLC

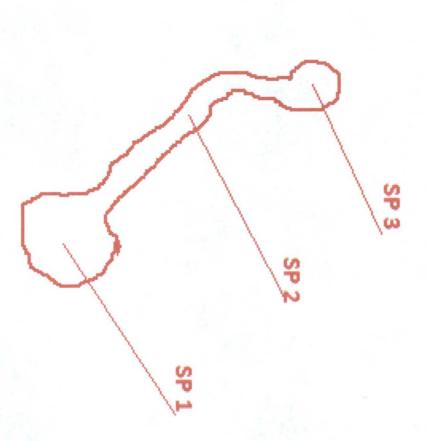
approved - Hiby at SP-2 that you have £ 250PPM CL & ON BOTTOM & WALL SAMPLES AT SP-1 AND SP-3

P. O. Box 1058 \* Hobbs New Mexico \* Office 505.393.3386 \* Fax 505.391.4585

Emr. Freewalkt NMOCD-DIST 1 5/21/12



AQ LEA # 007



Job/Location: Cimarex AQ LEA # 007
Date: \*5/13/2012

Sample Point	Depth	Field Test
SP 1	1	
	3' BGS	2273 ppm
	4' BGS	1107 PPM
	5' BGS	794 PPM
	8' BGS	713 PPM
	10' BGS	NO TRACE
SP 2	21.000	2400 0004
	2' BGS	3422 PPM
	3' BGS	7947 PPM
	4' BGS	13030 PPM
- 1 1 1 1 1 1	6' BGS	100 PPM
	9'BGS	330 PPM
SP 3		
	2' BGS	5602 PPM
	3' BGS	5602 ppm
	4' BGS	16397 PPM
	10' BGS	10577 PPM
	15' PPM	330 PPM
	16' PPM	132 PPM
	2	
		,

Sample Point	Depth	Field Test
-		
	4.5	- On T
£ ~ 00°		
	1-78/0	
24-15T - 11		1
देश -		
		-
A		
		3 8



May 17, 2012

**VERNON BLACK** 

**Hungry Horse Environmental** 

P.O. Box 1058

Hobbs, NM 88240

RE: LEA AQ #7

Enclosed are the results of analyses for samples received by the laboratory on 05/15/12 16:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-11-3. 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 <a href="https://www.tceq.texas.gov/field/qa/lab">www.tceq.texas.gov/field/qa/lab</a> 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.

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



**Hungry Horse Environmental** VERNON BLACK P.O. Box 1058 Hobbs NM, 88240

Fax To:

(505) 391-4585

Received:

05/15/2012

Reported: Project Name:

Project Number:

Project Location:

05/17/2012

LEA AQ #7 NONE GIVEN

NOT GIVEN

Sampling Date:

05/14/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

# Sample ID: SP 1 8' BGS (H201087-01)

BTEX 8021B	mg/	кд	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/16/2012	ND	2.20	110	2.00	0.903	
Toluene*	<0.050	0.050	05/16/2012	ND	2.29	115	2.00	1.41	
Ethylbenzene*	<0.050	0.050	05/16/2012	ND	2.29	115	2.00	2.01	
Total Xylenes*	<0.150	0.150	05/16/2012	ND	7.09	118	6.00	2.34	
Surrogate: 4-Bromofluorobenzene (PIL	118 9	% 64.4-13	4						
Chloride, SM4500CI-B	mg/	'kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/16/2012	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	05/16/2012	ND	205	103	200	5.10	
DRO >C10-C28	<10.0	10.0	05/16/2012	ND	222	111	200	26.6	
Surrogate: 1-Chlorooctane	87.1	% 55.5-15	4				1		
Surrogate: 1-Chlorooctadecane	90.9	% 57.6-15	8						

# **Cardinal Laboratories**

\*=Accredited Analyte

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Celeg D. Keene



Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240

Fax To:

(505) 391-4585

Received: Reported: 05/15/2012

05/17/2012

Project Name: Project Number: LEA AQ #7

Project Location:

NONE GIVEN NOT GIVEN Sampling Date:

05/14/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

# Sample ID: SP 1 10' BGS (H201087-02)

BTEX 8021B	mg/	/kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	05/17/2012	ND	2.14	107	2.00	4.14	
Toluene*	<0.050	0.050	05/17/2012	ND	2.24	112	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/17/2012	ND	2.22	111	2.00	4.16	
Total Xylenes*	<0.150	0.150	05/17/2012	ND	6.86	114	6.00	4.40	
Surrogate: 4-Bromofluorobenzene (PIL	115	% 64.4-13	4						
Chloride, SM4500Cl-B	mg/	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	64.0	16.0	05/16/2012	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	05/16/2012	ND	205	103	200	5.10	
DRO >C10-C28	<10.0	10.0	05/16/2012	ND	222	111	200	26.6	
Surrogate: 1-Chlorooctane	86.1	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	98.9	% 57.6-15	8						

# Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



**Hungry Horse Environmental VERNON BLACK** P.O. Box 1058 Hobbs NM, 88240

Fax To:

(505) 391-4585

Received:

05/15/2012

Sampling Date:

05/14/2012

Reported:

05/17/2012

Soil

Project Name:

LEA AQ #7

Sampling Type: Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 2 6' BGS (H201087-03)

EX		

GRO C6-C10

B1EX 8021B	mg,	кg	Апагуге	u by: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2012	ND	2.14	107	2.00	4.14	
Toluene*	<0.050	0.050	05/17/2012	ND	2.24	112	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/17/2012	ND	2.22	111	2.00	4.16	
Total Xylenes*	<0.150	0.150	05/17/2012	ND	6.86	114	6.00	4.40	
Surrogate: 4-Bromofluorobenzene (PIL	115	% 64.4-13	4						
Chloride, SM4500CI-B	mg,	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	112	16.0	05/16/2012	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

ND

ND

205

222

103

111

200

200

5.10

26.6

05/16/2012

05/16/2012

DRO >C10-C28	<10.0	10.0
Surrogate: 1-Chlorooctane	88.4 %	55.5-154
Surrogate: 1-Chlorooctadecane	92.0 %	57.6-158

<10.0

10.0

Cardinal Laboratories

\*=Accredited Analyte

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 dam including, without limitation, business interruptions, loss of use, or 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 claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keens



**Hungry Horse Environmental VERNON BLACK** P.O. Box 1058 Hobbs NM, 88240

Fax To:

(505) 391-4585

Received:

05/15/2012

Sampling Date:

05/14/2012

Reported:

05/17/2012

Sampling Type:

Soil

Project Name:

LEA AQ #7

Sampling Condition:

Cool & Intact

Project Number:

NONE GIVEN

Sample Received By:

Jodi Henson

Project Location:

NOT GIVEN

Sample ID: SP 2 9' BGS (H201087-04)

BTEX	8021B	

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2012	ND	2.14	107	2.00	4.14	
Toluene*	< 0.050	0.050	05/17/2012	ND	2.24	112	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/17/2012	ND	2.22	111	2.00	4.16	
Total Xylenes*	<0.150	0.150	05/17/2012	ND	6.86	114	6.00	4.40	
Surrogate: 4-Bromofluorobenzene (PIL	114 %	64.4-13	4						
Chloride, SM4500CI-B	mg/	kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier

Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
352	16.0	05/16/2012	ND	400	100	400	0.00	
mg,	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<10.0	10.0	05/16/2012	ND	205	103	200	5.10	
<10.0	10.0	05/16/2012	ND	222	111	200	26.6	
	Result 352 mg/ Result <10.0	Result Reporting Limit  352 16.0  mg/kg  Result Reporting Limit  <10.0 10.0	352 16.0 05/16/2012  mg/kg Analyze  Result Reporting Limit Analyzed  <10.0 10.0 05/16/2012	Result         Reporting Limit         Analyzed         Method Blank           352         16.0         05/16/2012         ND           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS           352         16.0         05/16/2012         ND         400           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           352         16.0         05/16/2012         ND         400         100           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           352         16.0         05/16/2012         ND         400         100         400           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <10.0	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           352         16.0         05/16/2012         ND         400         100         400         0.00           mg/kg         Analyzed By: MS           Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <10.0

Surrogate: 1-Chlorooctane

88.7%

55.5-154

Surrogate: 1-Chlorooctadecane

91.8%

57.6-158

Cardinal Laboratories

\*=Accredited Analyte

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Celey D. Keine



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

Fax To:

Received:

Reported: 05/17/2012 Project Name: LEA AQ #7 Project Number: NONE GIVEN

Project Location:

DTEV 9031D

05/15/2012

NOT GIVEN

Sampling Condition: Sample Received By:

Sampling Date: Sampling Type:

Soil Cool & Intact

Jodi Henson

05/14/2012

# Sample ID: SP 3 15' BGS (H201087-05)

BTEX 8021B	mg/	kg	Analyze	d By: ZZZ					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	05/17/2012	ND	2.14	107	2.00	4.14	
Toluene*	<0.050	0.050	05/17/2012	ND	2.24	112	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/17/2012	ND	2.22	111	2.00	4.16	
Total Xylenes*	<0.150	0.150	05/17/2012	ND	6.86	114	6.00	4.40	
Surrogate: 4-Bromofluorobenzene (PIL	117	% 64.4-13	4						
Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	320	16.0	05/16/2012	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	05/16/2012	ND	205	103	200	5.10	
DRO >C10-C28	<10.0	10.0	05/16/2012	ND	222	111	200	26.6	
Surrogate: 1-Chlorooctane	93.3	% 55.5-15	4						
Surrogate: 1-Chlorooctadecane	97.4	% 57.6-15	8						

Analyzed By: 777

# **Cardinal Laboratories**

\*=Accredited Analyte

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Celey D. Keine



Hungry Horse Environmental VERNON BLACK P.O. Box 1058 Hobbs NM, 88240

Fax To:

(505) 391-4585

Received:

05/15/2012

Reported:

05/17/2012 LEA AQ #7

Project Name: Project Number: Project Location:

NONE GIVEN

Sampling Date:

05/14/2012

Sampling Type:

Soil

Sampling Condition:

Cool & Intact

Sample Received By:

Jodi Henson

Sample ID: SP 3 16' BGS (H201087-06)

**BTEX 8021B** 

mg/kg

Analyzed By: ZZZ

Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	< 0.050	0.050	05/17/2012	ND	2.14	107	2.00	4.14	
Toluene*	< 0.050	0.050	05/17/2012	ND	2.24	112	2.00	4.57	
Ethylbenzene*	<0.050	0.050	05/17/2012	ND	2.22	111	2.00	4.16	
Total Xylenes*	<0.150	0.150	05/17/2012	ND	6.86	114	6.00	4.40	

Surrogate: 4-Bromofluorobenzene (PIL

118%

93.0 %

64.4-134

57.6-158

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	128	16.0	05/16/2012	ND	400	100	400	0.00	
PH 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	05/16/2012	ND	205	103	200	5.10	
	<10.0	10.0	05/16/2012	ND	222	111	200	26.6	

Sample ID: CONTROL SAMPLE (H201087-07)

Chloride, SM4500CI-B	mg	/kg	Analyze	d By: HM					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	48.0	16.0	05/16/2012	ND	400	100	400	0.00	

# Cardinal Laboratories

Surrogate: 1-Chlorooctadecane

\*=Accredited Analyte

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Celey D. Keine



## **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.

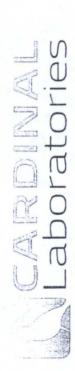
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

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

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine



# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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Hobbs,	(575)
and,	FAX
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† Cardinal cannot accept verbal changes. Please fax written changes to (575) 393-2326

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