

## **Remediation Summary Report Form**

### **General Information**

This report prepared by Hungry Horse, LLC on 12Jun14, is inn response to the release for Alamo Permian Resources at the Delhi B State #3, located in Eddy County, New Mexico for the spill that occurred 26Mar14, releasing 20 bbls of oil due to the blow out of a stuffing box.

Date: 12Jun14

Client: Alamo Permian Resources

Site Name: Delhi B State #3 County: Eddy County State: New Mexico

Legals: UL. M, Sec. 28, T175, R28E

Site Coordinates Latitude: 32.8002

Longitude: -104.1878

**Property Owner: State of New Mexico** 

NM OCD Report No.: 2RP-2263

### **Release Description and Assessment**

The information below is related to the spill (Date, Type, Cause, and Quantity) and the area impacted.

Date of Spill: 26Mar14

Type of Spill: X Oil Produced Water Condensate Other (Specify):

Cause of Spill: Equipment Failure Valve Failure Line Rupture Leaking Tank Tank Overfill

X Other (Specify): Stuffing Box Blow Out

**Other Contributing Factors or Comments:** 

Quantity Spilled: 20 bbls Quantity Recovered: 20 bbls Total Released: 0

Method of Recovery: X Vacuum Truck Other (Specify):

New Mexico Oil Conservation Division Notified: X Yes No

C-141 Completed and Submitted: X Yes No

Spill Area Impacted: Inside Firewall X On Production Pad In Pasture In Cultivated Land

Other (Specify):

Total Square Foot Impacted: 1600sf Estimated Depth: 1.5' Volume (Cu. Yards): 100 yds

**Other Comments:** 

### **Remediation Activity Summary**

The following summarizes the activities used to remediate the spill.

The remediation of the impacted area was conducted within the scope of the approved work plan. The impacted area was approximately 50 x 50', and was the portion of the pad around the well head and to the east of the well head. Hand excavation was conducted around the well head to a depth of approximately 2.5' below ground surface (BGS). Once a safe zone around the well head had been hand excavated, the remainder of the impacted area was mechanically excavated to a depth of approximately 1.5' BGS. At this point, impenetrable rock was encountered and excavation halted. It was determined that due to the close proximity of the well head, further excavation using a hammer-hoe or drill would threaten the integrity of the well head as well as pose a serious safety hazard.

Two soil samples were then obtained and analyzed for Chlorides, TPH, and BTEX. Lab results were presented to NM OCD's Mike Bratcher along with the explanation behind stopping the excavation. It was agreed that the excavation could be closed and backfilled with the stipulation that a complete remediation would be conducted when the well was plugged and abandon and the location reclaimed.

The area was backfilled with clean material and brought back to grade. All impacted soil was placed on a plastic liner and then transported to a division approved disposal facility for disposal.

Vernon K. Black, Hungry Horse, LLC

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 IIV
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. Santa Fe NM 87505 RECEIVED

Form C-141 Revised August 8, 2011

MAR 2 7 2014
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

NMOCD ARTESIA

Saina 1 e, ININ 87303														
Release Notification and Corrective Action														
n Hour 10	11/82	6132			OPERAT	OR		Report [	Final Report					
Name of Co	mpany A	LAMO PER	MIAN R	ESOURCES, L	LC Contact C.	Contact CARIE STOKER								
Address 4	15 W. WA	LL ST. SUI	TE 500	274841	Telephone 1	Telephone No. 432 664 7659								
Facility Nar	ne DELI	HI'B STATE	3			Facility Type WELL								
Surface Ow	ner STAT	E		Mineral C	Owner STATE		. 30-015-395	590						
	LOCATION OF RELEASE													
AA.	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County						
\ \\\	28	178	28E	835	i s	330	w	EDDY						

Latitude 32.800283 Longitude -104.187839

NATURE OF RELEASE Volume of Release: 20 BBLS Type of Release: OIL Volume Recovered: 20 BBLS Source of Release: STUFFING BOX Date and Hour of Occurrence: Date and Hour of Discovery MARCH 27 2014, 10:00 AM MARCH 26 2014 Was Immediate Notice Given? If YES, To Whom? MIKE BRATCHER Date and Hour MARCH 27 2014, 4:30 P.M., LEFT VOICE MESSAGE By Whom? CARIE STOKER Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. ☐ Yes 🛛 No If a Watercourse was Impacted, Describe Fully.\* Describe Cause of Problem and Remedial Action Taken.\* Cause of problem: Packing blew out of stuffing box; Remedial Action Taken: Shut well in Describe Area Affected and Cleanup Action Taken.\* Clean up action: Spill contained to wellhead area; Backhoe scheduled to scrape up top layer of contaminated earth 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 regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger 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 remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION Signature: Approved by Environmental Specialist: Printed Name: CARIE STOKER Expiration Date: Title: REGULATORY AFFAIRS COORDINATOR Approval Date E-mail Address: carie@stokeroilfield.com Conditions of Approval: Attached [ Remediation per OCD Rule & 03/27/2014 Phone: 432 664 7659 **Guidelines, SUBMIT REMEDIATION** 2RP-2263 \* Attach Additional Sheets If Necessary PROPOSAL NO LATER THAN:



PHONE (975) 398-2326 \* 101 E. MARLAND \* HOURS, NM 88240

May 30, 2014

VERNON BLACK
Hungry Horse Environmental
P.O. Box 1958
Hobbs, NM 88248

RE: DELHT B STATE #3

Enclosed are the results of analyses for samples received by the laboratory on 05/23/14: 15:30.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T10470-398-13-5. Accreditation applies to drinking water, non-potable water anil solid and chemical materials. All accredited analytes are denoted by an astarisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tcec.texas.gov/field/aa/lab\_accred\_centifitims.

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

Method EPA 552.2

Halpacetic Acids (HAA-5)

Method EPA 524.2

Total Trihalomethanes (TTHM)

Method EPA 524.4

Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

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

Sincerely,

Celey D. Keene

Lab Director/Quality Manager

Pace of 5

JUN 0 2 2014



PHONE (575) 393-2326 \* 101 E. MARLAND \* HOGHS, NM 88240

### Analytical Results For:

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

Fax To:

(505) 391-4585

Received:

05/23/2014

Reported: Project Name: 05/30/2014 DELHI B STATE #3

Project Number: Project Location: NONE GIVEN

EDDY COUNTY, NM

Sampling Date:

Sampling Type:

Sampling Condition: Sample Racelved By: 05/23/2014 Soil

Cool & Intact

Jodi Henson

Sample XD: SP #1-25' E OF WPLLHEAD 1.5' BGS (H401595-01)

HIEX BOLLE	mg	kg	Anniyas	d By: MS					· • • • • • • • • • • • • • • • • • • •
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Senzene*	<0.050	0.050	00/29/2014	ND	(40	115	2.00	1,75	
Toluene*	<0.050	0.080	05/29/2014	ND	33	116	2.00	2.54	
Ethylbenzene*	<0.050	0.050	09/29/2014	NO	:.23	111	2.00	2.07	
Total Xylenes*	< 0.150	0.190	05, 19/2014	ND	<b>3</b> .06	1.16	6.00	2.23	
Total eTCX	<0,300	0.300	05/39/2014	ND					
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Chloride, 5144500CI-6	mg/	(cg	· (riplyze	d By: AP					·····
Anelyte	Result	Reporting Nimit	Analyzed	Method Blank	B.S	% Récovery	True Value QF	RoD	Qualifier
Chloride	1570	16.0	05/25/2/014	ND	432	108	400	3,77	
трн 8315М	mg/	kg	Analyze	d By: M5					Qualifier Qualifier
Aranyte	Result	Reporting Limit	Anniyzec	Method Blank	85	% Касачегу	True Value QC	RPL	Qualifler
GRO CS-C10	<b>₹10.0</b>	10.0	05/28/2011	ND	192	95.2	200	1.06	
DRO > CLG-C28	<10.0	19.0	05/28/201/8	ND	206	103	300	4.56	
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Surrogate: 1-Cittoroactadecane	1163	63.4-15	ď						

Cardinal Laboratories

\*=Accredited Analyte

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Caley D. Keene, Lab Director/Quality Manager

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JUN 0 2 2014



PHONE (575) 393-2025 \* 101 E. MARLAND \* HODES, NM 88240

### Analytical Results For:

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

Fax To:

(505) 391-4585

Received:

05/23/2014

Sampling Date:

05/23/2014

Reported:

STEX 80218

05/30/2014

Sampling Type:

Soli

Project Name:

DELHI B STATE #3

Sampling Condition:

Coul & Intect

Project Number:

NONE GIVEN

mg/kg

Sample Received By:

Jodi Henson

Project Location:

EDDY COUNTY, NM

Sample 10: 5P #2-10' NE OF WELLHEAD 1.5' (H401595-02)

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funalyte	Result	Reporting Limit	Analyzeo	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
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Toluene*	< 0.050	9.050	05/29/2014	ND	2.33	116	2.00	2.54	
Ethylbenzene*	< 0.050	0.050	05/29/2014	MD	2.23	1.1.1	2.00	2.07	
Total Xyignes*	<0.150	0.150	05/29/20++	ND	6.96	116	6.00	2.23	
Total BTEX	<0.300	9.300	05/29/201-	סא					
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Analyzed By: MS

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Chlorida	2680	i5.0	05/29/2014	ND	432	106	400	3.77	
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Cardinal Laboratories

\*=Accredited Analyte

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Calley & Hanne

Cetay D. Keens, Lab Director/Quality Manager

Page 3 of 5

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PHONE (575) 393-2326 \* 101 E. MARLAND \* HORBS, NM 88240

#### Notes and Definitions

ND Analyte NCT DETECTED at or above die reporting ilmit.

RPD Relative Percent Difference

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

\*\* Theuffedent time to reach temperature.

Oribotide by SM4\$00CL-B cloes not require sample's be received as or below 65C Samples reported on an as received basis (web) unless otherwise noted on report

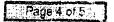
Cardinal Laboratories

\*=Accredited Analyte

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Celay D. Keene, Lab Director/Quality Manager





### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Nobbs, NM 88240 (575) 393-7326 FAX (575) 393-2476

Company Name: Hunsey Horse, LLC							12162	ANALYSIS REQUEST																
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# HUNGRY HORSE, LLC ENVIRONMENTAL SERVICES

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

19May14

To: Mike Bratcher, New Mexico Oil Conservation Division, District 2

Reference: Remediation Work Plan Location: Delhi B State #003

Operator: Alamo Permian Resources

API: 30-025-39590

Legals: UL. M, Sec. 28, T17S, R28E (Eddy County)

GPS: N32.80044, W-104.18832

2RP-2263

Dear Mr. Bratcher.

Hungry Hose, LLC has been contracted Alamo Permian Resources to conduct the soil remediation at the above referenced location for the release that occurred 26Mar14. This remediation work plan is being submitted for your review and feedback.

### Location

This location is in rural Eddy County, New Mexico and is located west of Loco Hills, New Mexico on the north side of Highway 82 at mile marker #120, approximately 400 yards off the highway. The vegetation in this area is primarily creosote bushes, mesquite, yucca cactus, and various range grasses. The area is relatively flat with a few rolling sand dunes. Based upon the Eddy County Depth to Groundwater Map, the depth to groundwater is greater than 100'. There are no known water wells or surface bodies of water within 1000' of this location.

### Work Conducted to Date

Upon detection of the release, a back-hoe was used to help contain the release and to remove the saturated layer of soil. A thin layer of caliche was then spread over the hydrocarbon stained area to assist in the drying of the remaining areas that were damp.

### **Proposed Remediation Plan**

The impacted area is approximately a  $50' \times 50'$  area in the immediate vicinity of the well head and to the east of the wellhead. The release was contained to the existing well pad and no area off the caliche pad was impacted.

I propose to hand excavate the impacted soil around the well head until a safe work zone is created for a back-hoe to begin excavating the pad. The back-hoe will be used to excavate the impacted soil from the pad. All impacted soil will be placed in a truck for transportation or on a plastic liner if awaiting transportation. Upon reaching the depth at which the caliche pad stops, field tests for chlorides will be conducted. If field test results indicate chloride levels at 1000ppm of less, confirmation samples will be obtained for laboratory analysis.

## HUNGRY HORSE, LLC ENVIRONMENTAL SERVICES

Laboratory results will be presented to you for closure approval. When such approval is granted, fresh caliche will used for backfilling the excavation and the pad brought back to grade. A Final C-141 along with closure documentation will be submitted.

Sincerely,

Vernon K. Black, Hungry Horse, LLC

c.c. Carey Stoker

From:

Bratcher, Mike, EMNRD [mike.bratcher@state.nm.us]

Sent:

Wednesday, May 21, 2014 7:36 AM

To:

Vernon Black

Subject:

RE: Remediation Work Plan

Vernon,

That will work, but we will need testing for hydrocarbons (TPH & BTEX) in addition to the chloride tests.

Mike Bratcher NMOCD District 2 811 S. First Street Artesia, NM 88210 O: 575-748-1283 X108

C: 575-626-0857 F: 575-748-9720

From: Vernon Black [mailto:VBlack@Hungry-Horse.com]

Sent: Tuesday, May 20, 2014 7:33 AM

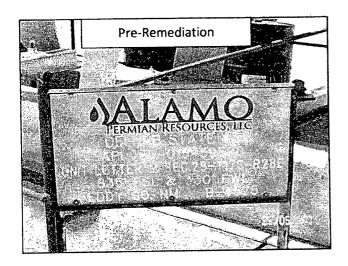
**To:** Bratcher, Mike, EMNRD **Subject:** Remediation Work Plan

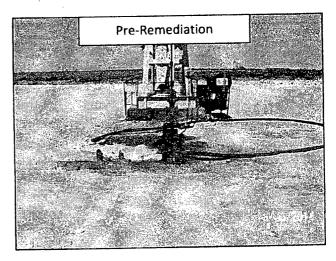
Good Morning Mike,

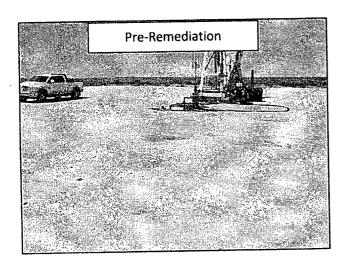
Please take a look at the attached work plan and provide your guidance. It's not much to it.....a stuffing box blew out and the release remained on the pad. We'll get it knocked out upon your approval.

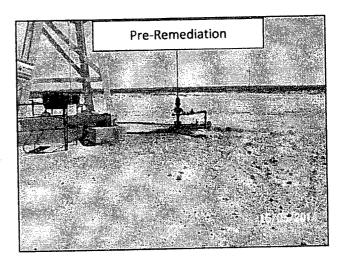
Vernon K. Black Hungry Horse, LLC PO Box 1058 Hobbs, NM 88241 575 393 3386 office 575 631 2253 cell

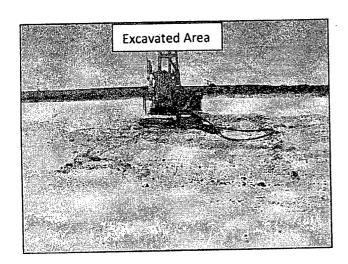
## Alamo Permian Resources-Delhi b State #3

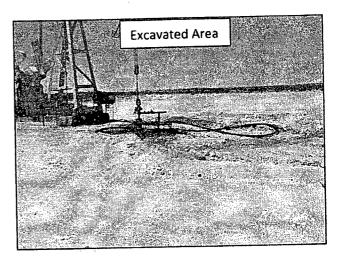




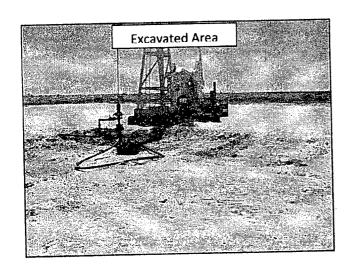


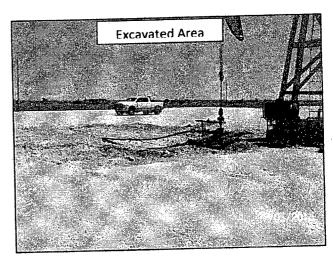


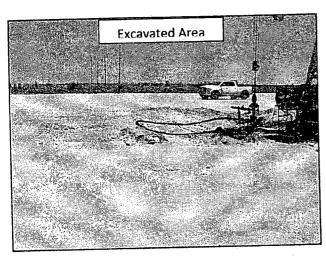


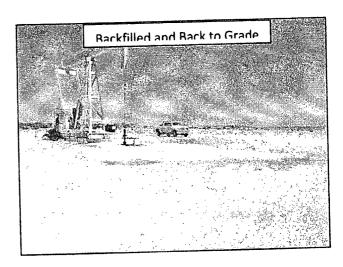


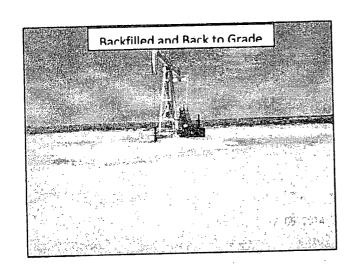
## Alamo Permian Resources-Delhi B State #3

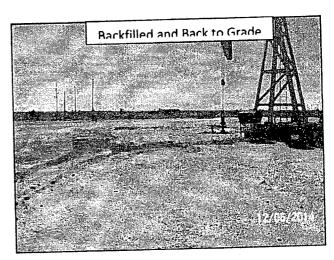












### Bratcher, Mike, EMNRD

From:

Vernon Black < VBlack@Hungry-Horse.com>

Sent:

Thursday, June 12, 2014 2:08 PM

To:

Bratcher, Mike, EMNRD, CARIE STOKER

Subject:

Emailing: Alamo Permian Resources-Delhi B St #3 Closing Documents.pdf

Attachments:

Alamo Permian Resources-Delhi B St #3 Closing Documents.pdf

Mike/Carie,

Here are the closing documents for the Delhi B St #3. If there's anything else you need, please let me know. I appreciate all you help on this project and look forward to the next time we work together.

Thanks, Vernon