



# 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: pPAC0616546875**

*Closure*  
1RP-918  
6/14/06  
PC

**1RP - 918**

**JOHN H HENDRIX CORP**

April 28, 2006

**VIA CERTIFIED MAIL (CD)**

Mr. Paul R. Sheeley  
Environmental Engineer  
State of New Mexico  
Oil Conservation Division  
1625 North French Drive  
Hobbs, New Mexico 88240

**Re: Soil Remediation Report, John H. Hendrix Corporation, Cardinal #1 Well Location, Unit Letter G (SW/4, NE/4), Section 27, Township 19 South, Range 38 East, Lea County, New Mexico**

Dear Mr. Sheeley:

This letter is submitted to the State of New Mexico Oil Conservation Division ("OCD") on behalf of John H. Hendrix Corporation ("JHHC") by Larson and Associates, Inc. ("LA"), its consultant, and presents the results of remedial actions performed at the Cardinal #1 well location ("Site") located in unit letter G ("SW/4, NE/4"), Section 2711, Township 19 South, Range 38 East, Lea County, New Mexico. The Site is located at latitude North 32° 37' 58.7" and longitude West 103° 08' 01.17". Contact information for JHHC is as follows:

Mr. Marvin Burrows  
Production Manager  
John H. Hendrix Corporation  
1310 18<sup>th</sup> Street  
Eunice, New Mexico 88231  
(505) 394-2649  
[mburrows@valornet.com](mailto:mburrows@valornet.com)

**Chronology**

The OCD inspected the Site during well plugging and required JHHC to remediate hydrocarbon-contaminated soil in the area of the separators and heater treater. In December 2005, LA personnel collected soil samples from the area of the separators and heater treater, wellhead, circulating and transfer pump and tank battery. The samples analysis were reported to the OCD on January 18, 2006, in a report titled, "Soil Sample Results and Remediation Work Plan, John H. Hendrix Corporation, Cardinal #1 Well (Plugged, Unit Letter G (SW/4, NE/4), Section 27, Township 19 South, Range 38 East, Lea County, New Mexico)". The OCD approved the remediation work plan on February 23, 2006. This report presents the laboratory analysis of soil samples collected from

incident - nPAC0605437043  
application - nPAC0616546825

excavations on April 11 and April 18, 2006. Figure 1 presents a location and topographic map. Appendix A presents the OCD approval letter and Form C-141.

### **Remedial Action**

The following recommended remediation action levels ("RRAL") were calculated for the Site based on criteria published by OCD ("Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993"):

<b><u>Ranking Criteria</u></b>	<b><u>Result</u></b>	<b><u>Ranking Score</u></b>
Depth-to-Groundwater	<50 Feet	20
Wellhead Protection Area	No	0
Distance to Surface Water Body	>1000 Horizontal Feet	0
		<b>Total Score: 20</b>

The following RRAL are assigned to the leak based on the total ranking score (20):

- **Benzene**                      **10 mg/kg**
- **Total BTEX**                **50 mg/kg**
- **TPH**                            **100 mg/kg**
- **Chloride:**                    **1000 mg/Kg**

In April 2006, E. D. Walton Construction Company, Inc. ("EDW") excavated soil from the area around the wellhead and the separators and heater treater. Soil was also excavated from the area of the circulating and transfer pump once the pump was removed. The maximum depth of soil removal was approximately nine (9) feet (wellhead), five (5) feet (separator/heater treater) and 2 feet (circulating/transfer pump). Soil samples were collected from the sides and bottom of the excavations using a stainless steel bucket auger, placed in 4-ounce glass containers, labeled, chilled in an ice chest and hand-delivered under chain of custody control to Environmental Lab of Texas, Inc. ("ELTI"). The laboratory analyzed the samples for total petroleum hydrocarbons ("TPH") using method SW-846 8015 for gasoline range organics ("GRO") and diesel range organics ("DRO"), and chloride by method SW-846-300. Duplicate samples were collected in 8-ounce glass jars for headspace analysis and were analyzed using a RAE Instruments, Model 2000 photoionization detector ("PID"). No PID readings exceeded 100 parts per million ("ppm"). The bucket auger was thoroughly washed between samples using a solution of laboratory detergent and potable water, and rinsed with distilled water. Table 1 presents a summary of the laboratory analysis. Appendix B presents the laboratory report. Appendix C presents photographs.

Referring to Table 1, all samples reported TPH below 100 milligrams per kilogram ("mg/Kg"), except, HT-SW (151.6 mg/Kg), HT-NW (249.1 mg/Kg), HT-MID (317.3 mg/Kg), WH-W2 (183.4 mg/Kg), WH-W4 (275.1 mg/Kg) and T-Pump (269.7 mg/Kg). Chloride was below 1,000 mg/Kg in all samples.

Mr. Paul R. Sheeley  
April 28, 2006  
Page 3

JHHC is the owner of the property and requests permission to haul the contaminated soil to its centralized surface waste management facility and fill the excavations with clean soil. Your approval of excavation closure is requested. Please contact Mr. Marvin Burrows with JHHC at (505) 394-2649 or by email at [mburrows@valornet.com](mailto:mburrows@valornet.com) or you may contact me at (432) 687-0901 or email [mark@laenvironmental.com](mailto:mark@laenvironmental.com) if you have questions.

Sincerely,

***Larson and Associates, Inc.***

A handwritten signature in black ink, appearing to be 'Mark J. Larson', with a large, loopy flourish extending from the end.

Mark J. Larson, P.G., C.P.G., C.G.W.P.  
Sr. Project Manager/President

Encl

cc: Marvin Burrows/JHHC  
Ronnie Westbrook/JHHC  
Wayne Price/OCD – Santa Fe

## Tables

Table 1

## Summary of Laboratory Analysis of Soil Samples Following Remediation

John H. Hendrix Corporation, Cardinal #1

Unit Letter G (SW/4, NE/4), Section 27, Township 19 South, Range 38 East

Lea County, New Mexico

Date	Sample Number	Area	Sample Location	Depth (Feet)	PID (ppm)	GRO C6-C12 (mg/kg)	DRO C12-C28 (mg/kg)	DRO C28-C35 (mg/kg)	TPH C6-C35 (mg/kg)	Chloride (mg/kg)
<b>RRAL:</b>										
4/11/2006	HT-NE	Heater Treater	Northeast - Side	2	0.1	<10.0	<10.0	<10.0	<30.0	46.8
4/11/2006	HT-NW	Heater Treater	Northwest - Side	2	0.1	<10.0	216	33.1	249.1	157
4/18/2006	HT-SE	Heater Treater	South East	2	0.1	<10.0	13.7	<10.0	13.7	288
4/11/2006	HT-SW	Heater Treater	Southwest - Side	2	0.1	<10.0	130	21.6	151.6	300
4/18/2006	HT-MID	Heater Treater	Center - Bottom	5	0.1	<10.0	255	62.3	317.3	90.9
4/11/2006	WH-S2	Wellhead	South - Side	2	0.1	<10.0	<10.0	<10.0	<30.0	114
4/11/2006	WH-S4	Wellhead	South - Side	4	3.3	<10.0	42.1	<10.0	42.1	143
4/11/2006	WH-E2	Wellhead	East - Side	2	0.1	<10.0	<10.0	<10.0	<30.0	47.4
4/11/2006	WH-E4	Wellhead	East - Side	4	0.1	<10.0	<10.0	<10.0	<30.0	118
4/11/2006	WH-W2	Wellhead	West - Side	2	0.1	<10.0	163	20.4	183.4	212
4/11/2006	WH-W4	Wellhead	West - Side	4	0.1	<10.0	248	27.1	275.1	440
4/11/2006	WH-N2	Wellhead	North - Side	2	0.1	<10.0	<10.0	<10.0	<30.0	34.5
4/11/2006	WH-N4	Wellhead	North - Side	4	0.1	<10.0	<10.0	<10.0	<30.0	106
4/11/2006	WH-Bottom	Wellhead	Center - Bottom	9	0.1	<10.0	<10.0	<10.0	<30.0	285
4/18/2006	T-Pump	Transfer Pump	Center - Bottom	2	0.1	<10.0	185	84.7	269.7	138

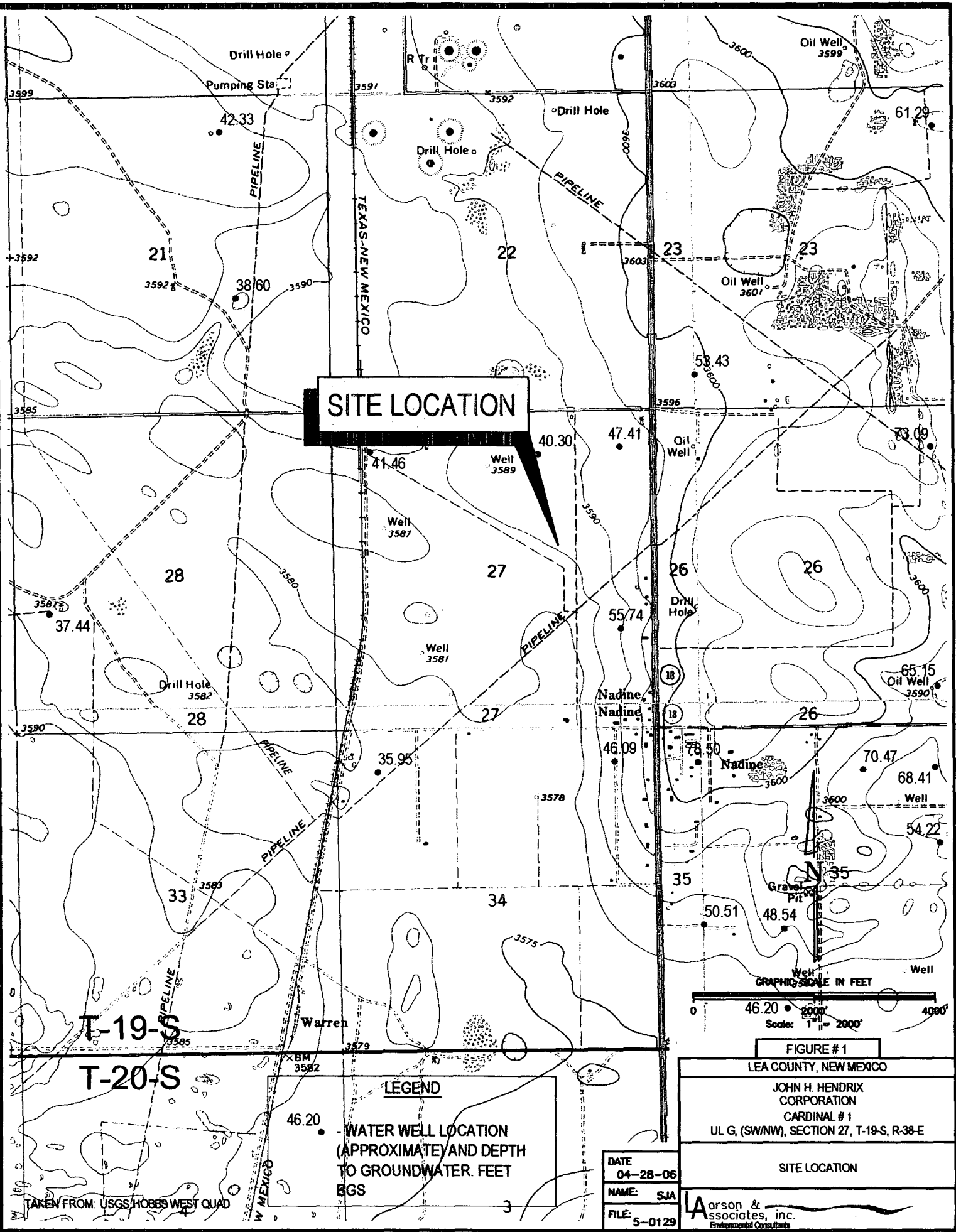
Notes: Analysis performed by Environmental Lab of Texas, Inc., Odessa, Texas

1. BGS: Below ground surface

2. ppm: Parts per million

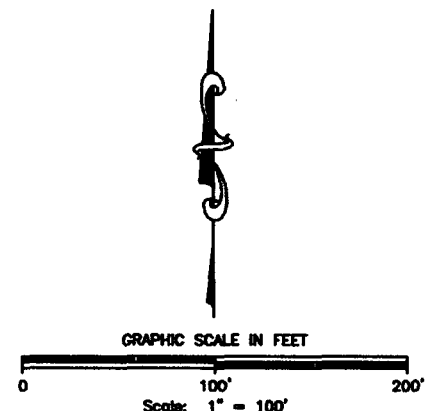
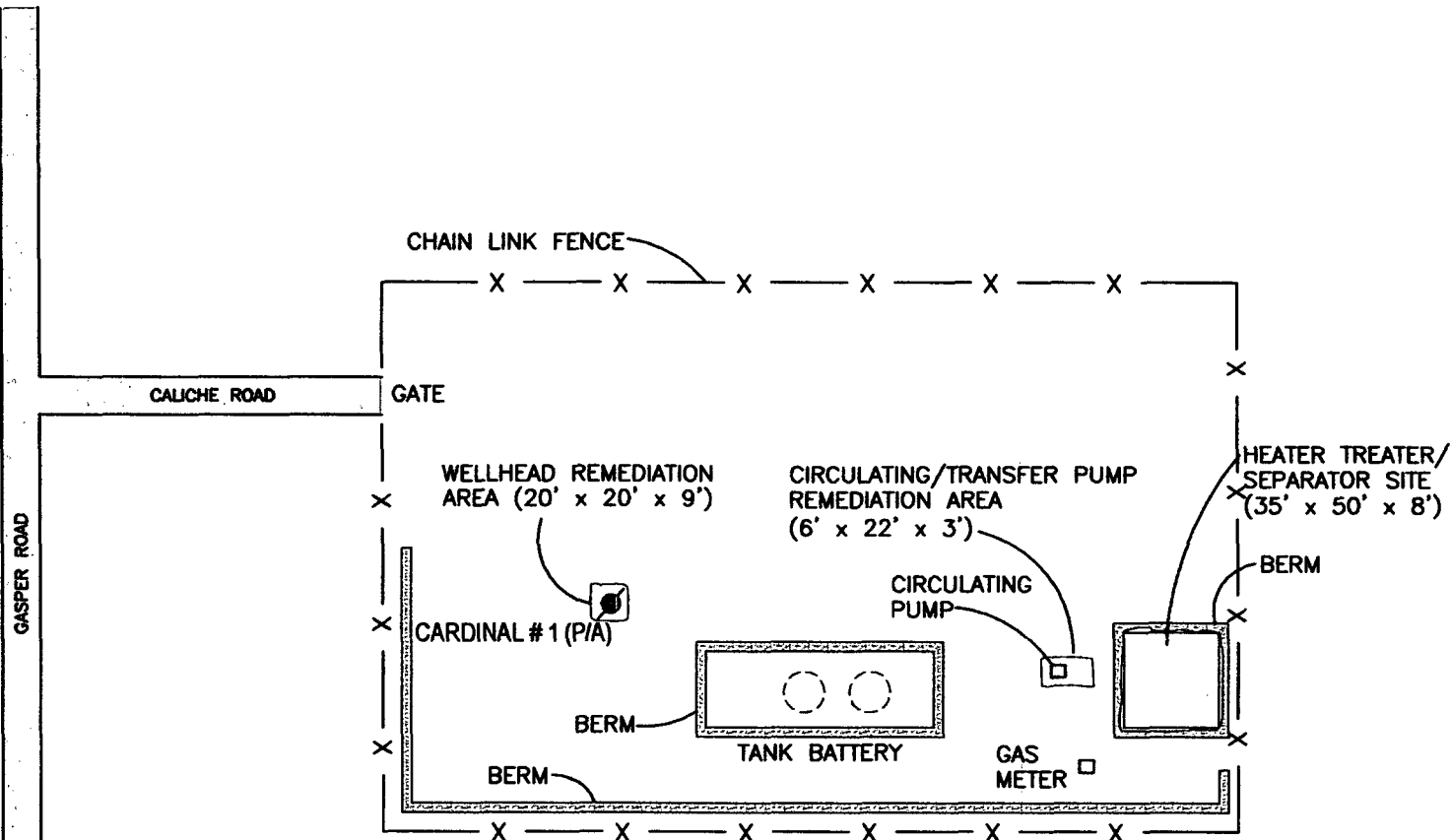
3. Mg/Kg: Milligrams per kilogram

## Figures



TAKEN FROM: USGS/HOBBS WEST QUAD





**LEGEND**

SS-1 • SOIL SAMPLE LOCATION, APRIL 13, 2006

● PLUGGED OIL WELL LOCATION

NOTE: ALL EQUIPMENT HAS BEEN REMOVED FROM LOCATION

**FIGURE #2**

LEA COUNTY, NEW MEXICO

JOHN H. HENDRIX CORPORATION  
CARDINAL #1  
UL G, (SW/NW), SECTION 27, T-19-S, R-38-E

SITE DRAWING

DATE 04-28-06	
NAME: SJA	
FILE: 5-0129	

**Appendix A**  
**OCD Correspondence**  
**Form C-141**

District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

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

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

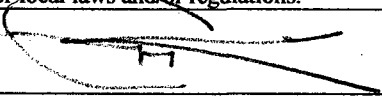
Name of Company: John H. Hendrix Corporation	Contact: Marvin Burrows	
Address: 1310 18 <sup>th</sup> Street, Eunice, NM 88231	Telephone No.: (505) 394-2649	
Facility Name: Cardinal #1	Facility Type: Well/Tank Battery (Closed)	
Surface Owner: John H. Hendrix Corporation	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter G	Section 27	Township 19 S	Range 38 E	Feet from the	North/South Line	Feet from the	East/West Line	County: Lea
------------------	---------------	------------------	---------------	---------------	------------------	---------------	----------------	-------------

Latitude: 32° 37' 58.7" Longitude: 103° 08' 01.17"

NATURE OF RELEASE

Type of Release: Spills	Volume of Release: Unknown	Volume Recovered: 0 bbl
Source of Release: Production Equipment	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: Unknown
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* OCD inspected location during well plugging and requested soil remediation where spills had occurred, including the separators, heater treater and circulating pump. Soil was remediated per an OCD approved work plan.		
Describe Area Affected and Cleanup Action Taken.*: Areas affected included 35'x50' area around the separators, heater treaters, 6'x 22' around circulating and transfer pump and 20' x 20' area around the wellhead. Soil was excavated and will be hauled to the JHHC centralized surface waste management facility. Excavations will be filled with clean soil.		
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.		
Signature: 	<b>OIL CONSERVATION DIVISION</b>	
Printed Name: Mark J. Larson - Larson and Associates, Inc.	Approved by District Supervisor:	
Title: Agent/Consultant	Approval Date:	Expiration Date:
E-mail Address: mark@laenvironmental.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: April 28, 2006 Phone: (432) 67-0901		

\* Attach Additional Sheets If Necessary



# NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

**BILL RICHARDSON**

Governor

**Joanna Prukop**

Cabinet Secretary

**Mark E. Fesmire, P.E.**

Director

**Oil Conservation Division**

February 23, 2006

Marvin Burrows/JHHC  
John H. Hendrix Corp., (JHHC)  
110 N. Marienfeld St., Ste. 400  
Midland, TX 79701

Re: Cardinal #1 – Corrective Action Approval  
Site Location: UL-G, Sec 27-T19S-R38E  
Dated: January 18, 2006

Dear Mr. Burrows,

New Mexico Oil Conservation Division (OCD) received the corrective action plan prepared by Larson & Associates for JHHC and referenced above. The plan is **hereby approved** according to the information provided.

Please be advised that OCD approval of this plan does not relieve JHHC of liability should their operations fail to adequately investigate and remediate contaminants that threaten ground water, surface water, human health or the environment. In addition, OCD approval does not relieve JHHC of responsibility for compliance with any other federal, state, or local laws and/or regulations.

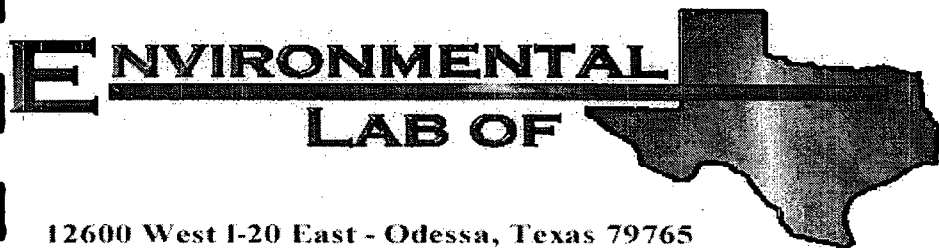
If you have any questions or need assistance please write or call: (505) 393-6161, ext. 113, or e-mail: [psheeeley@state.nm.us](mailto:psheeeley@state.nm.us)

Sincerely,

Paul Sheeley-Environmental Engineer

Cc: Wayne Price - Environmental Bureau Chief  
Chris Williams - District I Supervisor  
Larry Johnson - Environmental Engineer  
Mark Larson - Larson & Associates

**Appendix B**  
**Laboratory Reports**



# Analytical Report

**Prepared for:**

Mark Larson

Larson & Associates, Inc.

P.O. Box 50685

Midland, TX 79710

Project: John Hendrix/ Cardinal #1

Project Number: 5-0128

Location: None Given

Lab Order Number: 6D19001

Report Date: 04/25/06

Larson & Associates, Inc.  
P.O. Box 50685  
Midland TX, 79710

Project: John Hendrix/ Cardinal #1  
Project Number: 5-0128  
Project Manager: Mark Larson

Fax: (432) 687-0456

Reported:  
04/25/06 08:54

### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
HT-NE	6D19001-01	Soil	04/11/06 13:00	04/18/06 16:55
HT-SW	6D19001-02	Soil	04/11/06 13:20	04/18/06 16:55
HT-NW	6D19001-03	Soil	04/11/06 13:30	04/18/06 16:55
WH-S4	6D19001-04	Soil	04/11/06 11:30	04/18/06 16:55
WH-E4	6D19001-05	Soil	04/11/06 11:39	04/18/06 16:55
WH-W2	6D19001-06	Soil	04/11/06 11:58	04/18/06 16:55
WH-S2	6D19001-07	Soil	04/11/06 11:25	04/18/06 16:55
WH-E2	6D19001-08	Soil	04/11/06 11:35	04/18/06 16:55
WH-W4	6D19001-09	Soil	04/11/06 11:56	04/18/06 16:55
WH-N2	6D19001-10	Soil	04/11/06 11:43	04/18/06 16:55
WH-N4	6D19001-11	Soil	04/11/06 11:47	04/18/06 16:55
WH-Bottom	6D19001-12	Soil	04/11/06 11:51	04/18/06 16:55
HT-SE	6D19001-13	Soil	04/18/06 13:05	04/18/06 16:55
HT-MID	6D19001-14	Soil	04/18/06 13:15	04/18/06 16:55
T-Pump	6D19001-15	Soil	04/18/06 13:21	04/18/06 16:55

Larson & Associates, Inc.  
P.O. Box 50685  
Midland TX, 79710

Project: John Hendrix/ Cardinal #1  
Project Number: 5-0128  
Project Manager: Mark Larson

Fax: (432) 687-0456

Reported:  
04/25/06 08:54

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>HT-NE (6D19001-01) Soil</b>									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	ED61910	04/19/06	04/21/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		70.1 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		73.9 %	70-130		"	"	"	"	
<b>HT-SW (6D19001-02) Soil</b>									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	ED61910	04/19/06	04/21/06	EPA 8015M	
Carbon Ranges C12-C28	130	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	21.6	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	152	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		116 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		120 %	70-130		"	"	"	"	
<b>HT-NW (6D19001-03) Soil</b>									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	ED61910	04/19/06	04/21/06	EPA 8015M	
Carbon Ranges C12-C28	216	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	33.1	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	249	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		115 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		119 %	70-130		"	"	"	"	
<b>WH-S4 (6D19001-04) Soil</b>									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	ED61910	04/19/06	04/21/06	EPA 8015M	
Carbon Ranges C12-C28	42.1	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	42.1	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		113 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		117 %	70-130		"	"	"	"	



Larson & Associates, Inc.  
P.O. Box 50685  
Midland TX, 79710

Project: John Hendrix/ Cardinal #1  
Project Number: 5-0128  
Project Manager: Mark Larson

Fax: (432) 687-0456

Reported:  
04/25/06 08:54

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>WH-E4 (6D19001-05) Soil</b>									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	ED61910	04/19/06	04/21/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		116 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		126 %	70-130		"	"	"	"	
<b>WH-W2 (6D19001-06) Soil</b>									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	ED61910	04/19/06	04/21/06	EPA 8015M	
Carbon Ranges C12-C28	163	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	20.4	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	183	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		105 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		110 %	70-130		"	"	"	"	
<b>WH-S2 (6D19001-07) Soil</b>									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	ED61910	04/19/06	04/21/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		115 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		120 %	70-130		"	"	"	"	
<b>WH-E2 (6D19001-08) Soil</b>									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	ED61910	04/19/06	04/21/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		74.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		77.3 %	70-130		"	"	"	"	

Larson & Associates, Inc.  
P.O. Box 50685  
Midland TX, 79710

Project: John Hendrix/ Cardinal #1  
Project Number: 5-0128  
Project Manager: Mark Larson

Fax: (432) 687-0456

Reported:  
04/25/06 08:54

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>WH-W4 (6D19001-09) Soil</b>									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	ED61910	04/19/06	04/21/06	EPA 8015M	
Carbon Ranges C12-C28	248	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	27.1	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	275	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		83.5 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		83.3 %	70-130		"	"	"	"	
<b>WH-N2 (6D19001-10) Soil</b>									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	ED61910	04/19/06	04/21/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		104 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		108 %	70-130		"	"	"	"	
<b>WH-N4 (6D19001-11) Soil</b>									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	ED61910	04/19/06	04/21/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		122 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		127 %	70-130		"	"	"	"	
<b>WH-Bottom (6D19001-12) Soil</b>									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	ED62010	04/20/06	04/20/06	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	ND	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		87.0 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		92.8 %	70-130		"	"	"	"	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 4 of 13

Larson & Associates, Inc.  
P.O. Box 50685  
Midland TX, 79710

Project: John Hendrix/ Cardinal #1  
Project Number: 5-0128  
Project Manager: Mark Larson

Fax: (432) 687-0456

Reported:  
04/25/06 08:54

**Organics by GC**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>HT-SE (6D19001-13) Soil</b>									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	ED62010	04/20/06	04/20/06	EPA 8015M	
Carbon Ranges C12-C28	13.7	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	ND	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	13.7	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		91.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		94.4 %	70-130		"	"	"	"	
<b>HT-MID (6D19001-14) Soil</b>									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	ED62010	04/20/06	04/20/06	EPA 8015M	
Carbon Ranges C12-C28	255	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	62.3	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	317	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		94.4 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		95.0 %	70-130		"	"	"	"	
<b>T-Pump (6D19001-15) Soil</b>									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	ED62010	04/20/06	04/20/06	EPA 8015M	
Carbon Ranges C12-C28	185	10.0	"	"	"	"	"	"	
Carbon Ranges C28-C35	84.7	10.0	"	"	"	"	"	"	
Total Hydrocarbon C6-C35	270	10.0	"	"	"	"	"	"	
Surrogate: 1-Chlorooctane		89.6 %	70-130		"	"	"	"	
Surrogate: 1-Chlorooctadecane		94.0 %	70-130		"	"	"	"	

Larson & Associates, Inc.  
P.O. Box 50685  
Midland TX, 79710

Project: John Hendrix/ Cardinal #1  
Project Number: 5-0128  
Project Manager: Mark Larson

Fax: (432) 687-0456

Reported:  
04/25/06 08:54

**General Chemistry Parameters by EPA / Standard Methods**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>HT-NE (6D19001-01) Soil</b>									
Chloride	46.8	5.00	mg/kg	10	ED62006	04/19/06	04/19/06	EPA 300.0	
% Moisture	8.4	0.1	%	1	ED62013	04/19/06	04/20/06	% calculation	
<b>HT-SW (6D19001-02) Soil</b>									
Chloride	300	10.0	mg/kg	20	ED62006	04/19/06	04/19/06	EPA 300.0	
% Moisture	9.4	0.1	%	1	ED62013	04/19/06	04/20/06	% calculation	
<b>HT-NW (6D19001-03) Soil</b>									
Chloride	157	10.0	mg/kg	20	ED62006	04/19/06	04/19/06	EPA 300.0	
% Moisture	7.8	0.1	%	1	ED62013	04/19/06	04/20/06	% calculation	
<b>WH-S4 (6D19001-04) Soil</b>									
Chloride	143	10.0	mg/kg	20	ED62006	04/19/06	04/19/06	EPA 300.0	
% Moisture	9.5	0.1	%	1	ED62013	04/19/06	04/20/06	% calculation	
<b>WH-E4 (6D19001-05) Soil</b>									
Chloride	118	5.00	mg/kg	10	ED62006	04/19/06	04/19/06	EPA 300.0	
% Moisture	10.3	0.1	%	1	ED62013	04/19/06	04/20/06	% calculation	
<b>WH-W2 (6D19001-06) Soil</b>									
Chloride	212	10.0	mg/kg	20	ED62006	04/19/06	04/19/06	EPA 300.0	
% Moisture	7.9	0.1	%	1	ED62013	04/19/06	04/20/06	% calculation	
<b>WH-S2 (6D19001-07) Soil</b>									
Chloride	114	10.0	mg/kg	20	ED62006	04/19/06	04/19/06	EPA 300.0	
% Moisture	8.9	0.1	%	1	ED62013	04/19/06	04/20/06	% calculation	
<b>WH-E2 (6D19001-08) Soil</b>									
Chloride	47.4	5.00	mg/kg	10	ED62006	04/19/06	04/19/06	EPA 300.0	
% Moisture	7.4	0.1	%	1	ED62013	04/19/06	04/20/06	% calculation	

Environmental Lab of Texas

*The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.*

Page 6 of 13

Larson & Associates, Inc.  
P.O. Box 50685  
Midland TX, 79710

Project: John Hendrix/ Cardinal #1  
Project Number: 5-0128  
Project Manager: Mark Larson

Fax: (432) 687-0456

Reported:  
04/25/06 08:54

**General Chemistry Parameters by EPA / Standard Methods**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
<b>WH-W4 (6D19001-09) Soil</b>									
Chloride	440	10.0	mg/kg	20	ED62006	04/19/06	04/19/06	EPA 300.0	
% Moisture	4.4	0.1	%	1	ED62013	04/19/06	04/20/06	% calculation	
<b>WH-N2 (6D19001-10) Soil</b>									
Chloride	34.5	5.00	mg/kg	10	ED62006	04/19/06	04/19/06	EPA 300.0	
% Moisture	3.7	0.1	%	1	ED62013	04/19/06	04/20/06	% calculation	
<b>WH-N4 (6D19001-11) Soil</b>									
Chloride	106	5.00	mg/kg	10	ED62006	04/19/06	04/19/06	EPA 300.0	
% Moisture	8.3	0.1	%	1	ED62013	04/19/06	04/20/06	% calculation	
<b>WH-Bottom (6D19001-12) Soil</b>									
Chloride	285	10.0	mg/kg	20	ED62006	04/19/06	04/19/06	EPA 300.0	
% Moisture	8.2	0.1	%	1	ED62013	04/19/06	04/20/06	% calculation	
<b>HT-SE (6D19001-13) Soil</b>									
Chloride	288	10.0	mg/kg	20	ED62006	04/19/06	04/19/06	EPA 300.0	
% Moisture	3.9	0.1	%	1	ED62013	04/19/06	04/20/06	% calculation	
<b>HT-MID (6D19001-14) Soil</b>									
Chloride	90.9	5.00	mg/kg	10	ED62006	04/20/06	04/20/06	EPA 300.0	
% Moisture	8.5	0.1	%	1	ED62013	04/19/06	04/20/06	% calculation	
<b>T-Pump (6D19001-15) Soil</b>									
Chloride	138	10.0	mg/kg	20	ED62006	04/20/06	04/20/06	EPA 300.0	
% Moisture	6.3	0.1	%	1	ED62013	04/19/06	04/20/06	% calculation	

Larson & Associates, Inc.  
P.O. Box 50685  
Midland TX, 79710

Project: John Hendrix/ Cardinal #1  
Project Number: 5-0128  
Project Manager: Mark Larson

Fax: (432) 687-0456

Reported:  
04/25/06 08:54

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch ED61910 - Solvent Extraction (GC)**

**Blank (ED61910-BLK1)**

Prepared: 04/19/06 Analyzed: 04/20/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	52.7		mg/kg	50.0		105	70-130			
Surrogate: 1-Chlorooctadecane	54.5		"	50.0		109	70-130			

**LCS (ED61910-BS1)**

Prepared: 04/19/06 Analyzed: 04/20/06

Carbon Ranges C6-C12	545	10.0	mg/kg wet	500		109	75-125			
Carbon Ranges C12-C28	575	10.0	"	500		115	75-125			
Total Hydrocarbon C6-C35	1120	10.0	"	1000		112	75-125			
Surrogate: 1-Chlorooctane	56.9		mg/kg	50.0		114	70-130			
Surrogate: 1-Chlorooctadecane	51.8		"	50.0		104	70-130			

**Calibration Check (ED61910-CCV1)**

Prepared: 04/19/06 Analyzed: 04/21/06

Carbon Ranges C6-C12	288		mg/kg	250		115	80-120			
Carbon Ranges C12-C28	248		"	250		99.2	80-120			
Total Hydrocarbon C6-C35	536		"	500		107	80-120			
Surrogate: 1-Chlorooctane	59.7		"	50.0		119	70-130			
Surrogate: 1-Chlorooctadecane	58.2		"	50.0		116	70-130			

**Matrix Spike (ED61910-MS1)**

Source: 6D19001-11

Prepared: 04/19/06 Analyzed: 04/21/06

Carbon Ranges C6-C12	495	10.0	mg/kg dry	545	ND	90.8	75-125			
Carbon Ranges C12-C28	509	10.0	"	545	ND	93.4	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbon C6-C35	1000	10.0	"	1090	ND	91.7	75-125			
Surrogate: 1-Chlorooctane	54.6		mg/kg	60.0		91.0	70-130			
Surrogate: 1-Chlorooctadecane	48.3		"	60.0		80.5	70-130			

Larson & Associates, Inc.  
P.O. Box 50685  
Midland TX, 79710

Project: John Hendrix/ Cardinal #1  
Project Number: 5-0128  
Project Manager: Mark Larson

Fax: (432) 687-0456

Reported:  
04/25/06 08:54

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch ED61910 - Solvent Extraction (GC)**

**Matrix Spike Dup (ED61910-MSD1)**

Source: 6D19001-11

Prepared: 04/19/06

Analyzed: 04/21/06

Carbon Ranges C6-C12	497	10.0	mg/kg dry	545	ND	91.2	75-125	0.403	20	
Carbon Ranges C12-C28	517	10.0	"	545	ND	94.9	75-125	1.56	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbon C6-C35	1010	10.0	"	1090	ND	92.7	75-125	0.995	20	
Surrogate: 1-Chlorooctane	54.8		mg/kg	60.0		91.3	70-130			
Surrogate: 1-Chlorooctadecane	48.5		"	60.0		80.8	70-130			

**Batch ED62010 - Solvent Extraction (GC)**

**Blank (ED62010-BLK1)**

Prepared & Analyzed: 04/20/06

Carbon Ranges C6-C12	ND	10.0	mg/kg wet							
Carbon Ranges C12-C28	ND	10.0	"							
Carbon Ranges C28-C35	ND	10.0	"							
Total Hydrocarbon C6-C35	ND	10.0	"							
Surrogate: 1-Chlorooctane	39.7		mg/kg	50.0		79.4	70-130			
Surrogate: 1-Chlorooctadecane	42.4		"	50.0		84.8	70-130			

**LCS (ED62010-BS1)**

Prepared & Analyzed: 04/20/06

Carbon Ranges C6-C12	474	10.0	mg/kg wet	500		94.8	75-125			
Carbon Ranges C12-C28	460	10.0	"	500		92.0	75-125			
Total Hydrocarbon C6-C35	934	10.0	"	1000		93.4	75-125			
Surrogate: 1-Chlorooctane	47.7		mg/kg	50.0		95.4	70-130			
Surrogate: 1-Chlorooctadecane	41.9		"	50.0		83.8	70-130			

**Calibration Check (ED62010-CCV1)**

Prepared & Analyzed: 04/20/06

Carbon Ranges C6-C12	205		mg/kg	250		82.0	80-120			
Carbon Ranges C12-C28	244		"	250		97.6	80-120			
Total Hydrocarbon C6-C35	449		"	500		89.8	80-120			
Surrogate: 1-Chlorooctane	49.9		"	50.0		99.8	70-130			
Surrogate: 1-Chlorooctadecane	51.6		"	50.0		103	70-130			

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Page 9 of 13

Larson & Associates, Inc.  
P.O. Box 50685  
Midland TX, 79710

Project: John Hendrix/ Cardinal #1  
Project Number: 5-0128  
Project Manager: Mark Larson

Fax: (432) 687-0456

Reported:  
04/25/06 08:54

**Organics by GC - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch ED62010 - Solvent Extraction (GC)**

**Matrix Spike (ED62010-MS1)**

Source: 6D19001-12

Prepared & Analyzed: 04/20/06

Carbon Ranges C6-C12	514	10.0	mg/kg dry	545	ND	94.3	75-125			
Carbon Ranges C12-C28	502	10.0	"	545	ND	92.1	75-125			
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125			
Total Hydrocarbon C6-C35	1020	10.0	"	1090	ND	93.6	75-125			
Surrogate: 1-Chlorooctane	54.1		mg/kg	50.0		108	70-130			
Surrogate: 1-Chlorooctadecane	48.6		"	50.0		97.2	70-130			

**Matrix Spike Dup (ED62010-MSD1)**

Source: 6D19001-12

Prepared & Analyzed: 04/20/06

Carbon Ranges C6-C12	505	10.0	mg/kg dry	545	ND	92.7	75-125	1.77	20	
Carbon Ranges C12-C28	505	10.0	"	545	ND	92.7	75-125	0.596	20	
Carbon Ranges C28-C35	ND	10.0	"	0.00	ND		75-125		20	
Total Hydrocarbon C6-C35	1010	10.0	"	1090	ND	92.7	75-125	0.985	20	
Surrogate: 1-Chlorooctane	52.8		mg/kg	50.0		106	70-130			
Surrogate: 1-Chlorooctadecane	47.7		"	50.0		95.4	70-130			



Larson & Associates, Inc.  
P.O. Box 50685  
Midland TX, 79710

Project: John Hendrix/ Cardinal #1  
Project Number: 5-0128  
Project Manager: Mark Larson

Fax: (432) 687-0456

Reported:  
04/25/06 08:54

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

**Batch ED62006 - Water Extraction**

**Blank (ED62006-BLK1)** Prepared & Analyzed: 04/19/06

Chloride ND 0.500 mg/kg

**Blank (ED62006-BLK2)** Prepared & Analyzed: 04/20/06

Chloride ND 0.500 mg/kg

**LCS (ED62006-BS1)** Prepared & Analyzed: 04/19/06

Chloride 8.78 mg/L 10.0 87.8 80-120

**LCS (ED62006-BS2)** Prepared & Analyzed: 04/20/06

Chloride 9.16 mg/L 10.0 91.6 80-120

**Calibration Check (ED62006-CCV1)** Prepared & Analyzed: 04/19/06

Chloride 8.56 mg/L 10.0 85.6 80-120

**Calibration Check (ED62006-CCV2)** Prepared & Analyzed: 04/20/06

Chloride 9.38 mg/L 10.0 93.8 80-120

**Duplicate (ED62006-DUP1)** Source: 6D18004-01 Prepared & Analyzed: 04/19/06

Chloride 12900 200 mg/kg 12600 2.35 20

**Duplicate (ED62006-DUP2)** Source: 6D19001-14 Prepared & Analyzed: 04/20/06

Chloride 91.8 5.00 mg/kg 90.9 0.985 20

**Batch ED62013 - General Preparation (Prep)**

**Blank (ED62013-BLK1)** Prepared: 04/19/06 Analyzed: 04/20/06

% Solids 100 %

Larson & Associates, Inc.  
P.O. Box 50685  
Midland TX, 79710

Project: John Hendrix/ Cardinal #1  
Project Number: 5-0128  
Project Manager: Mark Larson

Fax: (432) 687-0456

Reported:  
04/25/06 08:54

**General Chemistry Parameters by EPA / Standard Methods - Quality Control**  
**Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

**Batch ED62013 - General Preparation (Prep)**

**Duplicate (ED62013-DUP1)**      **Source: 6D19001-01**      Prepared: 04/19/06 Analyzed: 04/20/06

% Solids	90.0		%		91.6			1.76	20	
----------	------	--	---	--	------	--	--	------	----	--

**Duplicate (ED62013-DUP2)**      **Source: 6D19004-06**      Prepared: 04/19/06 Analyzed: 04/20/06

% Solids	89.9		%		89.5			0.446	20	
----------	------	--	---	--	------	--	--	-------	----	--

**Duplicate (ED62013-DUP3)**      **Source: 6D19006-11**      Prepared: 04/19/06 Analyzed: 04/20/06

% Solids	89.8		%		88.6			1.35	20	
----------	------	--	---	--	------	--	--	------	----	--

**Duplicate (ED62013-DUP4)**      **Source: 6D19009-01**      Prepared: 04/19/06 Analyzed: 04/20/06

% Solids	95.2		%		94.6			0.632	20	
----------	------	--	---	--	------	--	--	-------	----	--

Larson & Associates, Inc.  
P.O. Box 50685  
Midland TX, 79710

Project: John Hendrix/ Cardinal #1  
Project Number: 5-0128  
Project Manager: Mark Larson

Fax: (432) 687-0456

Reported:  
04/25/06 08:54

### Notes and Definitions

DET Analyte DETECTED  
ND Analyte NOT DETECTED at or above the reporting limit  
NR Not Reported  
dry Sample results reported on a dry weight basis  
RPD Relative Percent Difference  
LCS Laboratory Control Spike  
MS Matrix Spike  
Dup Duplicate

Report Approved By:



Date:

4-25-06

Raland K. Tuttle, Lab Manager  
Celey D. Keene, Lab Director, Org. Tech Director  
Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director  
LaTasha Cornish, Chemist  
Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.



# Environmental Lab of Texas

## Variance / Corrective Action Report – Sample Log-In

Client: Larson

Date/Time: 4/18/06 16:55

Order #: 6D190

Initials: IK

### Sample Receipt Checklist

Temperature of container/cooler?	Yes	No	4.0 C
Shipping container/cooler in good condition?	<u>Yes</u>	No	
Custody Seals intact on shipping container/cooler?	Yes	No	<u>Not present</u>
Custody Seals intact on sample bottles?	Yes	No	<u>Not present</u>
Chain of custody present?	<u>Yes</u>	No	
Sample Instructions complete on Chain of Custody?	<u>Yes</u>	No	
Chain of Custody signed when relinquished and received?	<u>Yes</u>	No	
Chain of custody agrees with sample label(s)	<u>Yes</u>	No	
Container labels legible and intact?	<u>Yes</u>	No	
Sample Matrix and properties same as on chain of custody?	<u>Yes</u>	No	
Samples in proper container/bottle?	<u>Yes</u>	No	
Samples properly preserved?	<u>Yes</u>	No	
Sample bottles intact?	<u>Yes</u>	No	
Preservations documented on Chain of Custody?	<u>Yes</u>	No	
Containers documented on Chain of Custody?	<u>Yes</u>	No	
Sufficient sample amount for indicated test?	<u>Yes</u>	No	
All samples received within sufficient hold time?	<u>Yes</u>	No	
VOC samples have zero headspace?	<u>Yes</u>	No	Not Applicable

Other observations:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

### Variance Documentation:

Contact Person: - \_\_\_\_\_ Date/Time: \_\_\_\_\_ Contacted by: \_\_\_\_\_

Regarding: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Corrective Action Taken:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

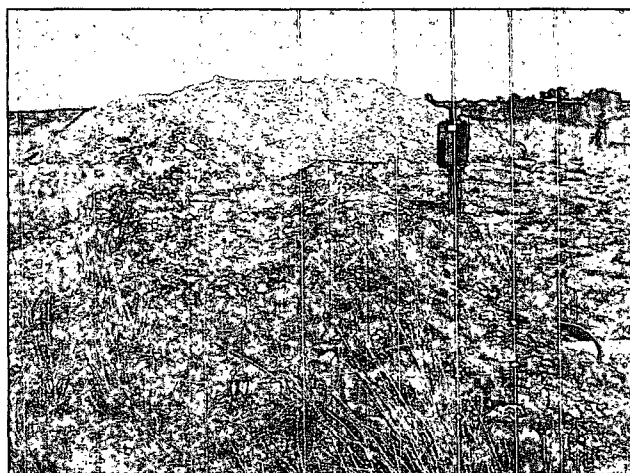
## **Appendix C**

### **Photographs**

CARDINAL # 1  
UL G, (SW/NW), SECTION 27, T-19-S, R-38-E  
LEA COUNTY, NEW MEXICO



1. JHHC, Cardinal #1 - Wellhead  
Remediation Area, April 24, 2006



2. JHHC, Cardinal #1 - Transfer  
Pump Remediation Area, Looking  
East, April 24, 2006



3. JHHC, Cardinal #1 - Heater  
Treater - Separator Remediation  
Area, Looking Southwest,  
April 24, 2006

CARDINAL # 1  
UL G, (SW/NW), SECTION 27, T-19-S, R-38-E  
LEA COUNTY, NEW MEXICO



4. JHHC, Cardinal #1 - Heater  
Treater - Separator Remediation  
Area, Looking Northwest,  
April 24, 2006



District I  
1625 N. French Dr., Hobbs, NM 88240  
District II  
1301 W. Grand Avenue, Artesia, NM 88210  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-141  
Revised October 10, 2003

Submit 2 Copies to appropriate  
District Office in accordance  
with Rule 116 on back  
side of form

### Release Notification and Corrective Action

#### OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: John H. Hendrix Corporation	Contact: Marvin Burrows	
Address: 1310 18 <sup>th</sup> Street, Eunice, NM 88231	Telephone No.: (505) 394-2649	
Facility Name: Cardinal #1	Facility Type: Well/Tank Battery (Closed)	
Surface Owner: John H. Hendrix Corporation	Mineral Owner	Lease No.

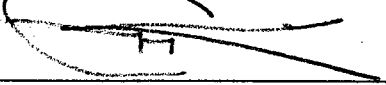
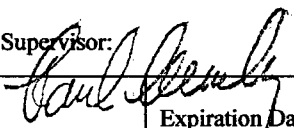

#### LOCATION OF RELEASE

Unit Letter G	Section 27	Township 19 S	Range 38 E	Feet from the	North/South Line	Feet from the	East/West Line	County: Lea
------------------	---------------	------------------	---------------	---------------	------------------	---------------	----------------	-------------

Latitude: 32° 37' 58.7" Longitude: 103° 08' 01.17"

API # 30025297930000

#### NATURE OF RELEASE

Type of Release: Spills	Volume of Release: Unknown	Volume Recovered: 0 bbl
Source of Release: Production Equipment	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: Unknown
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	
If a Watercourse was Impacted, Describe Fully.*		
Describe Cause of Problem and Remedial Action Taken.* OCD inspected location during well plugging and requested soil remediation where spills had occurred, including the separators, heater treater and circulating pump. Soil was remediated per an OCD approved work plan.		
Describe Area Affected and Cleanup Action Taken.*: Areas affected included 35'x50' area around the separators, heater treaters, 6'x 22' around circulating and transfer pump and 20' x 20' area around the wellhead. Soil was excavated and will be hauled to the JHHC centralized surface waste management facility. Excavations will be filled with clean soil.		
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.		
Signature: 		OIL CONSERVATION DIVISION
Printed Name: Mark J. Larson - Larson and Associates, Inc.	Approved by District Supervisor: 	
Title: Agent/Consultant	Approval Date: 	Expiration Date:
E-mail Address: mark@laenvironmental.com	Conditions of Approval: ENVIRONMENTAL ENGINEER	Attached <input type="checkbox"/>
Date: April 28, 2006	Phone: (432) 67-0901	6-9-06

\* Attach Additional Sheets If Necessary

Sent email approval