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

Name of C	omnonuu II	Vhiting Oil 6	Gas Inc			OPERAT Contact: Le	****	TENS		al Report	X	
		Vhiting Oil & Ave. Kermit		15			No. (432)634-82	257	11.111.5	0.3000.004		
		on A Fed # 2		+3			e: Tank Battery				1000	
actility 14a	inc. Cariso	II A I CU # Z	Dattery			Lucinty 1 y	. Aulik Dauel)					Alle
Surface Ov	vner		27	Mineral (Owner		VEN GOVERNMENT OF STREET			No. NM 076		
				TOC	ATIO	N OF RE	FASE		API#3	0.025.1	1764	.00.00
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/	West Line	County		200 12
1	25	258	37E	2310'	North	A STATE OF THE STA	990'	East		Lea		
Type of Rele	2004		Latit			N Longitud OF REL		64" W	Volume I	Recovered		
Oil & Wate						350 bbls	Release		305 bbls	Recovered		
Source of Re		Maria .					lour of Occurrence	e		Hour of Disc	overy 0	9/01/09
Γank		HILLS S		us out the		09/01/09 1	:00 AM		9:45 AM			
Was Immedi	ate Notice (Yes 🗆	No Not Re	equired	If YES, To Jeff Leking						
By Whom?	Raymond T	aylor					lour 09/01/09 5:0					Teles
	course Read	ched?	Yes X] No		If YES, Vo	olume Impacting	the Wate	ercourse.			
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Describe Car Water transfe	use of Proble	em and Rement out & lease	dial Action		repair wa	ater transfer p	oump.	W	: PSBTA	55 ¹		
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Date:

February 23, 2010

Client:

Whiting Oil and Gas Corporation

Subject:

Remediation of Hydrocarbon and Produced Water Impacted Soil

Carlson "A" Fed #2 Tank Battery (#NM 0766)

Lea County, New Mexico

On September 1, 2009, Whiting Oil & Gas Inc. (Whiting) found a release of crude oil and produced water at the Carlson A Fed #2 Tank Battery in Lea County, New Mexico. The release was determined to be approximately 350 barrels of crude oil and produced water within the firewall of the tank battery with only a small area outside the firewall but still on the location pad. Approximately 305 barrels of fluids were recovered. The release was reported to the New Mexico Oil Conservation Division (OCD) on September 1, 2009 by telephone and then an OCD form C-141 was completed and submitted to the OCD district office on September 2, 2009.

On September 16, 2009, Etech Environmental & Safety Solutions, Inc. (Etech) completed the initial assessment by conducting a site inspection and initiating contact with the OCD for remediation of the site. After discussions with the OCD, remediation of the site would be accomplished using the following contaminant cleanup levels:

Benzene = 10 ppm BTEX = 50 ppm TPH = 1000 ppm Chlorides = 500 ppm

In October 2009, Etech completed a site delineation to determine the best approach for remediation of the site based on the requirements outlined by the OCD. During this delineation samples were collected from five (5) locations within the tank battery firewall. It was also established during this delineation that the depth to bedrock ranged between 1.5 feet and 2 feet. Total petroleum hydrocarbon (TPH) results from the delineation sampling are presented in the following table:

	Delineation Samp	ling Results - TPH ((mg/kg) October 12, 2	009
Sample ID	Sample Depth	TPH - GRO	TPH – DRO	Total TPH
Sample 1	1.5 feet	509	13,784	14,293
Sample 2	2 feet	<500	11,712	11,712
Sample 3	1 foot	<500	13,776	13,776
Sample 4	1.5 feet	1,979	28,512	30,491
Sample 5	1 foot	968	23,872	24,840

Based on the delineation TPH analytical results and the shallow depth to bedrock, it was determined the best method for remediation of the site would be to excavate the impacted soil and transport off-site for disposal. The excavation would then be backfilled with clean soil transported to the site.

On October 20, 2009, excavation of the impacted soil was started. All impacted soil was excavated to the depth of the bedrock within the firewall of the tank battery. The impacted soil was stockpiled on plastic on the tank battery location pad until all impacted soil had been excavated.

The impacted soil was then loaded and transported to Sundance Services, Inc. in Eunice, New Mexico for final disposal. Samples were collected from the bottom of the excavation to document the completion of the remediation. Results of this initial sampling are summarized in the following tables:

	Remediation Sample	ling Results – TPH (mg/kg) December 28,	2009
Sample ID	Sample Depth	TPH - GRO	TPH – DRO	Total TPH
Bottom NE	1.5 feet	<10	1,120	1,120
Bottom SE	2 feet	<10	231	231
Bottom SW	1 foot	<10	65.8	65.8
Bottom NW	1.5 feet	<10	37.8	37.8

*	Remediat	ion Sampling F	Results – BTEX & Chl	orides (mg/kg)	
Sample ID	Benzene	Toluene	Ethylbenzene	Xylenes	Chlorides
Bottom NE	<0.050	<0.050	<0.050	<0.050	176
Bottom SE	<0.050	<0.050	<0.050	<0.050	432
Bottom SW	<0.050	<0.050	<0.050	<0.050	32
Bottom NW	<0.050	<0.050	<0.050	<0.050	224

After a review of the remediation sampling analytical results, one (1) sample was noted to be above the established cleanup level for TPH. This sample was the north east bottom sample and an additional 3 inches was scrapped from the rock in this area of the firewall. Another sample was collected from the area and the results are summarized in the following table:

	Secondary Rei	mediation Sampling	Results - TPH (mg/kg)
Sample ID	Sample Depth	TPH - GRO	TPH – DRO	Total TPH
Bottom NE	1.75 feet	<10	<10	<10

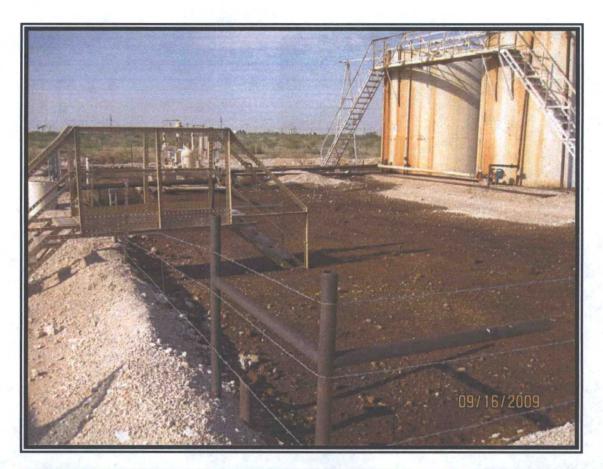
This final sample indicated the release site had been remediated to the cleanup levels established by the OCD. Removal of all impacted soil and backfilling of the excavation with clean fill was completed by December 28, 2009. A total of 366 tons of impacted soil was transported to Sundance for disposal.

Prepared By:

Etech Environmental & Safety Solutions, Inc.

ALLEN S. ESTEP

Shane Estep, P.G.

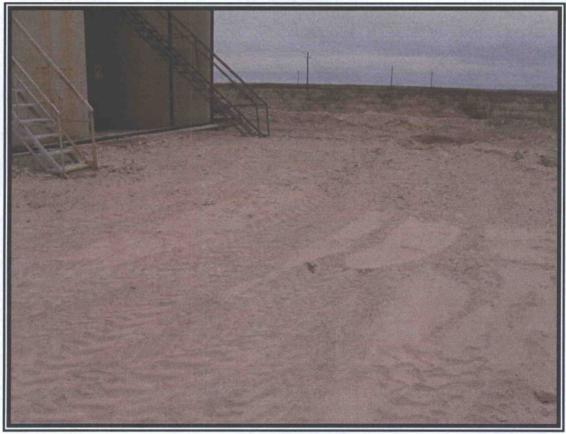












Extended Diesel Range Organic Hydrocarbons Analysis Report

site LAB® EDRO C10-C40 Aromatics in Soil, Sediment & Water

Client: Whiting Petroleum

Address:

Project Name: Carlson A #2

Job #: 052-1762-001

File #:

Matrix: Soil

Date Collected: 10/13/2009 Date Received: 10/14/2009

Date Extracted: 10/14/2009

Date Analyzed: 10/14/2009

Date Reported: 10/14/2009

.....

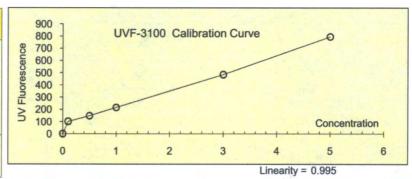
Phone: Contact:

Operator: Tim McMinn

Signature:

Date:10/14/09 Time:1127

Standard	UVF-3100 Calibration
Concentration	Raw Fluorescence
0	0
0.1	101.5
0.5	147.2
1.0	215.3
3.0	485.0
5.0	794.7
site LAB	
Calibration Product #:	CAL-042
Units (ppm or mg/Kg):	ppm



UVF Run#:	Sample ID & Description	UVF Raw Fluorescence	Test Sample Concentration (ppm)	Dilution Factor	Test Result:
1	Sample 1- 1.5' deep	554.20	3.446	4,000	13,784.0 ppm
2	Sample 2- 2' deep	475.30	2.928	4,000	11,712.0 ppm
3	Sample 3- 1' deep	553.80	3.444	4,000	13,776.0 ppm
4	Sample 4- 1.5' deep	572.40	3.564	8,000	28,512.0 ppm
5	Sample 5- 1' deep	482.90	2.984	8,000	23,872.0 ppm
6		1.00	1	1	1.0 ppm
7		1.00	1	1	1.0 ppm
8		1.00	1	1	1.0 ppm
9		1.00	1	1	1.0 ppm
10		1.00	1	1	1.0 ppm
11		1.00	1	1	1.0 ppm
12		1.00	1	1	1.0 ppm
13		1.00	1	1	1.0 ppm
14		1.00	1	1	1.0 ppm
15		1.00	1	1	1.0 ppm
16		1.00	1	1	1.0 ppm
17		1.00	1	1	1.0 ppm
18		1.00	1	1	1.0 ppm
19		1.00	1	1	1.0 ppm
20		1.00	1	1	1.0 ppm

Gasoline Range Organic Hydrocarbons Analysis Report

site LAB® GRO C6-C10 BTEX Aromatics in Soil, Sediment & Water

Client: Whiting Petroleum

Address:

Project Name: Carlson A #2

Job #: 052-1762-001

File #:

Matrix: Soil

Date Collected: 10/13/2009

Date Received: 10/14/2009

Date Extracted: 10/14/2009

Date Analyzed: 10/14/2009

Date Reported: 10/14/2009

Phone:

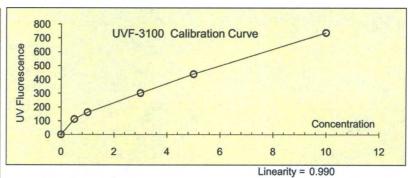
Contact:

Operator: Tim McMinn

Signature:

Date:10/14/09 Time:1038

Standard	UVF-3100 Calibration
Concentration	Raw Fluorescence
0	0
0.5	111.8
1.0	161.4
3.0	301.4
5.0	438.9
10.0	737.6
site LAB	
Calibration Product #:	CAL-025
Units (ppm or mg/Kg):	ppm



UVF Run#:	Sample ID & Description	UVF Raw Fluorescence	Test Sample Concentration (ppm)	Dilution Factor	Test I	Result:
1	Sample 1- 1.5' deep	112.80	0.509	1,000	509.0	ppm
2	Sample 2- 2' deep	97.71	0.437	1,000	Concentration	Too Low (ND
3	Sample 3- 1' deep	104.20	0.466	1,000	Concentration	Too Low (ND
4	Sample 4- 1.5' deep	229.90	1.979	1,000	1,979.0	ppm
5	Sample 5- 1' deep	158.20	0.968	1,000	968.0	ppm
6		1.00	1	1	1.0	ppm
7		1.00	1	1	1.0	ppm
8		1.00	1	1	1.0	ppm
9		1.00	1	1	1.0	ppm
10		1.00	1	1	1.0	ppm
11		1.00	1	1	1.0	ppm
12		1.00	1	1	1.0	ppm
13		1.00	1	1	1.0	ppm
14		1.00	1	1	1.0	ppm
15		1.00	1	1	1.0	ppm
16		1.00	1	1	1.0	ppm
17		1.00	1	1	1.0	ppm
18		1.00	1	1	1.0	ppm
19		1.00	1	1	1.0	ppm
20		1.00	1	1	1.0	ppm



January 8, 2010

Shane Estep ETECH Environmental & Safety Solutions, Inc. P.O. Box 8469 Midland, TX 79708

Re: Carlson A Fed #2 (052-1762-001)

Enclosed are the results of analyses for sample number H18991, received by the laboratory on 01/06/10 at 8:15 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005 Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though 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 524.2 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely.

Celey D./Keene Laboratory Director



ANALYTICAL RESULTS FOR

ETECH ENVIRONMENTAL & SAFETY SOLUTION

ATTN: SHANE ESTEP

P.O. BOX 8469 MIDLAND, TX 79708 FAX TO: (432) 563-2213

Receiving Date: 01/06/10

Reporting Date: 01/08/10 Project Number: 052-1762-001

Project Name: CARLSON A FED #2

Project Location: JAL, NM

Sampling Date: 12/28/09

Sample Type: SOIL

Sample Condition: COOL & INTACT @ -2.5°C

Sample Received By: JH Analyzed By: AB/ZL/HM

ETHYL TOTAL

		GRO	DRO			EIMIL	TOTAL	
LAB NO.	SAMPLE ID	(C ₆ -C ₁₀)	(>C ₁₀ -C ₂₈)	BENZENE	TOLUENE	BENZENE	XYLENES	CI*
		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)

ANALYSIS DATE:	01/07/10	01/07/10	01/06/10	01/06/10	01/06/10	01/06/10	01/07/10
H18991-1 BOTTOM NE	<10.0	1,120	< 0.050	< 0.050	< 0.050	<0.300	176
H18991-2 BOTTOM SE	<10.0	231	< 0.050	< 0.050	< 0.050	< 0.300	432
H18991-3 BOTTOM SW	<10.0	65.8	< 0.050	< 0.050	< 0.050	< 0.300	32
H18991-4 BOTTOM NW	<10.0	37.8	<0.050	<0.050	<0.050	<0.300	224
Quality Control	450	443	0.047	0.046	0.048	0.138	500
True Value QC	500	500	0.050	0.050	0.050	0.150	500
% Recovery	90.0	88.6	94.0	92.0	96.0	92.0	100
Relative Percent Difference	5.1	10.3	2.1	2.2	2.1	2.7	<0.1

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B; CI-: Std. Methods 4500-CI-B *Analysis performed on a 1:4 w:v aqueous extract.

Not accredited for Chloride and GRO/DRO.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES. Reported on wet weight.

H18991 TBCL ETECH

Lab Director

Date

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page of

ARDINAL LABORATORIES

(505) 393-2326 Fax (505) 393-2476 101 East Marland, Hobbs, NM 88240

Company Nan	18: ETECH EN J	Shety	Solv	72111		вит то					ANALYSIS		REQUEST	ST		
Project Manag	Project Manager: Shane Estep	60		P.O. #:	22			-	-			_			_	
Address: PC	Address: PO Box 8469			Company:	any:	7							4	_		
City: Midland	lend st	State: X Zip:	79708	Attn:			4 1									
Phone #:((1) 3	5-2200 F	#(432) 56	3-2213	Address	:88:								_			
Project #: 06	Project #: 052 - 1762-001 Project Owner: Chrisms	Ject Owner: ()	Huns Potr	City:					_							
Project Name:	Project Name: Caclson A Fed 42	42	b	State:		Zip:										
Project Locativ	Project Location: JA N			Phone #:	**	-		-							-	
Sampler Name:	**			Fax#:				_	5	17		-			-	
FOR LAB USE ONLY			MATRIX	PR	PRESERV.	SAMPLING		5	0	00	_				_	
Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	GROUNDWATER SOIL SOIL	SCID/BASE: OTHER : ACID/BASE:	ICE / COOL	DATE	TIME	Chloride	8 Hdl	S X318						
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2	Bottom SE	(2)	×		R	7	633	X	X							
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analyses. All clients including those for registence and any other cause whatoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable sentice. In no event shall Cardinal be fisible for incidental or consequents damages, including willhoot finitiation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries.

30 days past due at the rate of 24% per ennium from the original date of invoice, and all costs of collections, including attorney's fees.

Date:

Received By:
Fax Result:
Fax Result:
Time: CHECKED BY: NON Sample Condition
Cool Intact
Lives El Yes
In No In No Received By: Temp. Sampler Relinquished: Sampler - UPS - Bus - Other: Delivered By: (Circle One) Relinquished By:

+ Cardinal cannot accept verbal changes. Please fax written changes to 575-393-2416.



February 5, 2010

Shane Estep ETECH Environmental & Safety Solutions, Inc. P.O. Box 8469 Midland, TX 79708

Re: Carlson A #2. (052-1762-001)

Enclosed are the results of analyses for sample number H19213, received by the laboratory on 02/03/10 at 10:30 am.

Cardinal Laboratories is accredited through Texas NELAP for:

Method SW-846 8021 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method SW-846 8260 Benzene, Toluene, Ethyl Benzene, and Total Xylenes
Method TX 1005 Total Petroleum Hydrocarbons

Certificate number T104704398-08-TX. Accreditation applies to solid and chemical materials and non-potable water matrices.

Cardinal Laboratories is accredited though 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 524.2 Regulated VOCs (V2, V3)

Accreditation applies to public drinking water matrices.

Total Number of Pages of Report: 3 (includes Chain of Custody)

Sincerely.

Celey D. Keene Laboratory Director



ANALYTICAL RESULTS FOR ETECH ENVIRONMENTAL & SAFETY SOLUTION

ATTN: SHANE ESTEP P.O. BOX 8469 MIDLAND, TX 79708 FAX TO: (432) 563-2213

Receiving Date: 02/03/10 Reporting Date: 02/05/10

Project Owner: WHITING (052-1762-001)

Project Name: CARLSON A #2

Project Location: JAL, NM

Sampling Date: 02/02/10 Sample Type: SOIL

Sample Condition: INTACT @ 7°C

Sample Received By: JH

Analyzed By: AB

		GRO	DRO
		(C ₆ -C ₁₀)	(>C10-C28)
LAB NUMBER	SAMPLE ID	(mg/kg)	(mg/kg)

ANALYSIS DATE:	02/04/10	02/04/10
H19213-1 BOTTOM NE	<10.0	<10.0
Quality Control	528	559
True Value QC	500	500
% Recovery	106	112
Relative Percent Difference	9.5	3.7

METHOD: SW-846 8015 M. Reported on wet weight.

H19213 TPH8015 ETECH

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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1 10 ANALYSIS REQUEST Phokum Hydrochlans Fax #: 432-563-2213 TIME N: 40 Phone #1432-523-2200 State: 7- X Zip: 7-970 3 04/20/20 DATE Company: Flech BILLTO Address: P.O. Cox City: Midland Attn: Strang : ABHTO X ICE / COOF P.O. # ACID/BASE: ЯЗНТО SCUDGE MATRIX Fax#:432-563-2213 310 ZIP: 79708 TIOS Selety Project Owner: WANELAN MASTEWATER GROUNDWATER #CONTAINERS + (505) 393-2326 Fax (505) 393-2476 (G)RAB OR (C)OMP. 0 State: X Company Name: Etech EVNVONNEATE # 2 る同 Sample I.D. 5 KS0140 Project #: 053-1762-00 Phone #:432-563-2200 69 h3 AC 1650 Bottong Syrve 101 100 Address: PD.Rock Cly: Midland Project Manager: Project Location: Sampler Name: Project Name: FOR LAB USE ONLY H9213-1 Lab I.D.

Terms and Conditions, thereat vall by chapped on all accounts make that 39 days past doe at the rate of 24% per annual from the original date of function and all coats of collections, including allocinely less. Cl Yes Cl No Add'l Phone #: PLEASE NOTE: 150-lay, and Parimagne. Continuely lickling and charts exchains remain from any claim artifally inhabiter beased in contract or for, shall be lickling inhabiter beased in any special processor and any other cause whateveer shall be deemed without andered makes made in writing and required by Ceretinal legions and any other causes whateveer shall be deemed indicate the second of some second and any other causes whateveer shall be deemed in deem of the application of the a Phone Result: Fax Result: REMARKS: nearlies hereindur by Cardinal, inqualities of whether such claim is besed upon any of the alterior stated Dates.

[A . . . | Received By: Date: 20 Althors or successors artern out of or reinhad to the per-Sampler Relinquished:

By Bag

Cool Intact Received By: からなった Sampler - UPS - Bus - Other: Delivered By: (Circle One) Relinquished By:

† Cardinal cannot accept verbal changes. Please fax written changes to 575-345-2476.

<u>District I</u> 1625 N. French Dr., Hobbs, NM 88240 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

RECEIVED State of New Mexico

Energy Minerals and Natural Resources FEB 2 1 2011 Oil Conservation Division

1220 South St. Francis Dr. HOBBSOCD 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

						OPER	ATOR		X Init	ial Report X Final Repo
Name of Company Transwestern Pipeline Company				C	ontact La	rry Campbell				
Address: 213 S. Roosevelt road U Portales, NM 88130					No.: (575) 625-					
Facility Nat	me: P-1 C	ompressor S	tation		Fa	acility Typ	e: Natural Gas	Compr	ession	
Surface Ow	ner			Mineral Ov	wner				Lease N	No.
				LOCA	TION	OF REI	EASE			
Unit Letter					outh Line	Feet from the	East/West Line		County Roosevelt	
			Latit	ude_N34 11 14	1.0	Longit	udeW103 28	30.8		
				NATU	URE C	F REL				
Type of Rele						Volume of Release: 550 MCF Volume Recovered: 0 MCF				
Source of Re	elease: Natu	ıral Gas				Date and Hour of Occurrence: Date and Hour of Discovery 0 6:00 AM 6:00 AM			Hour of Discovery 02/16/2011	
Was Immediate Notice Given? X Yes ☐ No ☐ Not Required					If YES, To Whom? NMOCD Hobbs, NM					
By Whom? I						Date and Hour: 02/17/2011 9:00 AM				
Was a Watercourse Reached? Yes N No X					If YES, Volume Impacting the Watercourse.					
		em and Reme or failure. Mai		Γaken.* nd pilot regulato	r was rep	paired.				
Describe Are No area was		and Cleanup	Action Taker	1.*						
regulations a public health should their or or the environ	Il operators or the envi operations h nment. In a	are required to ronment. The nave failed to	o report and acceptance adequately in DCD accepta	or file certain rel of a C-141 report restigate and ren	lease not t by the l mediate	ifications and NMOCD material contamination of the	nd perform correct arked as "Final R on that pose a thr	ctive acti eport" de eat to gr	ons for rele oes not reli ound water	suant to NMOCD rules and eases which may endanger eve the operator of liability r, surface water, human health compliance with any other
<i>P</i>						OIL CONSERVATION DIVISION				
Signature:	Dlen	Hou	routher	ne	A1	pproved by	District Supervise	or:		
Printed Name	e: Glenn H	awthorne			11	ppro red by	2.3tree Supervis			
Title:Division	n Control T	ech			A	Approval Date: Expiration Date:		Date:		
E-mail Addre	ess: Glenn.I	Hawthorne@e	nergytransfe	er.com	C	Conditions of Approval:				Attached
Date: 02/17/2	2011		Pho	ne: 575-625-80	22					

^{*} Attach Additional Sheets If Necessary