Elke Environmental, Inc.

P.O. Box 14167 Odessa, TX 79768 Phone (432) 366-0043 Fax (432) 366-0884

February 2, 2007

New Mexico Oil Conservation Division Mr. Larry Johnson 1625 N. French Drive Hobbs, New Mexico 88240

Re: Closure Report for LJU Injection Well #85 Leak

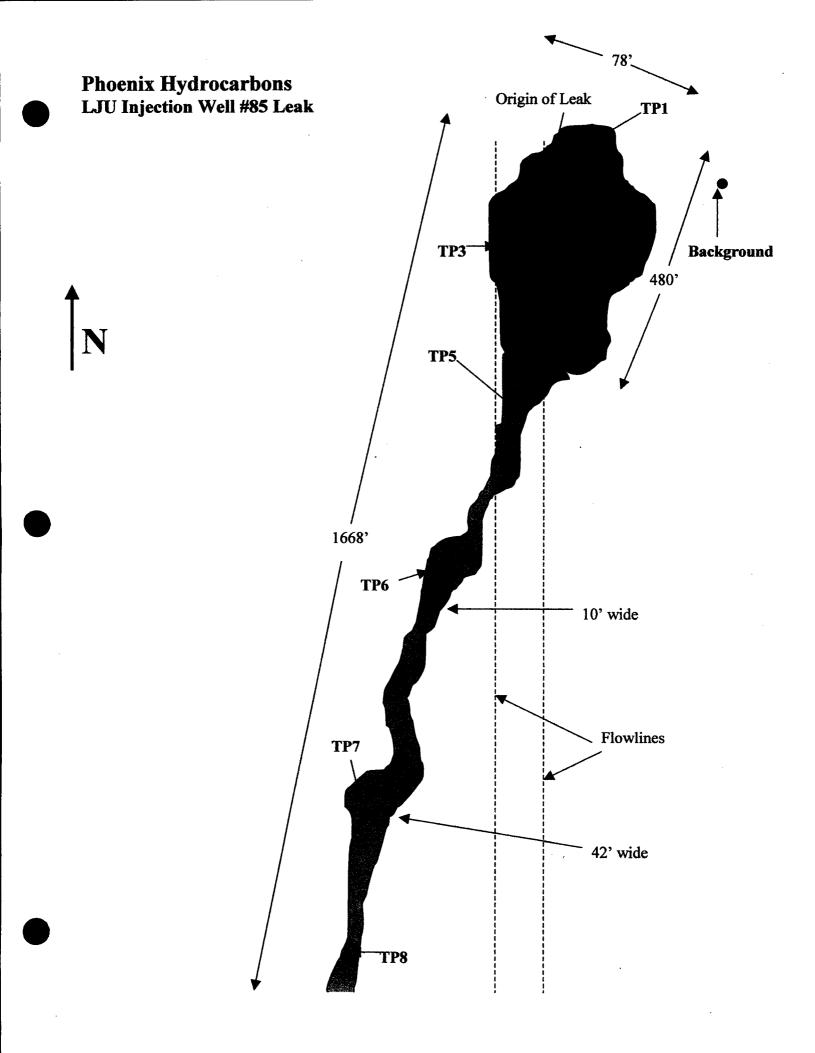
Mr. Larry Johnson,

Elke Environmental was contracted by Phoenix Hydrocarbons to complete the closure of the LJU Injection Well #85 Leak. An initial C-141 with closure plan was submitted and approved by Larry Johnson on November 20, 2006 and by Chris Williams on November 29, 2006. The closure plan was followed and five bottom samples were taken after the excavation per the conversation between Chris Williams and Kim Baker on January 18, 2006. Total cubic yards of contamination hauled to Sundance Disposal was 2,628 yds³. A 20 mil impervious liner was installed at the red area on the plat map. The excavation was backfilled with clean native soil from the landowner and contoured to the surrounding area. Elke Environmental request that no further action be taken. If you have any questions about the report call me at the office.

Sincerely,

Logan Anderson Elke Environmental, Inc.





Elke Environmental, Inc. P.O. Box 14167 Odessa, TX 79768

Field Analytical Report Form

Client Phoenix Hydrocarbons Analyst Logan Anderson/Kim Baker

Site LJU Injection Well #85

Sample ID	Date	Depth	TPH / PPM	Cl/PPM	PID / PPM	GPS
Background	11-1-06	3"		123		
TP1	11-1-06	6"		8,331		
TP2	11-2-06	2'		566		······································
TP2	11-2-06	4'		946		
TP2	11-2-06	5'		1,969		
TP2	11-2-06	6'		1,514		
TP2	11-2-06	9'		1,432		
TP3	11-1-06	1'		15,911		·
TP4	11-2-06	2'		678		
TP4	11-2-06	4'		1,436		
TP4	11-2-06	6'		927		
TP5	11-2-06	2'		1,544		
TP5	11-2-06	4'		10		
TP6	11-1-06	3"		13,797		
TP6	11-2-06	2'		1,195		
TP6	11-2-06	4'		105		
TP7	11-1-06	1'		12,169		
TP8	11-1-06	1'		7,627		

.

nalyst Notes

Analyst Signature Thin Bale

Lab Summary

LJU Injection Well #85

Sample point	TPH 8015m	Chloride	PID
TP1@3'	ND .	4,220	0
TP4@3'	ND	6,200	0
TP6@1'	ND	4,030	0
TP7@1'	ND	7,790	0
TP8@1'	ND	3,130	. 0



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Analytical Report

Prepared for:

Kim Baker Elke Environmental P.O. Box 14167 Odessa, TX 79768

Project: Phoenix Hydrocarbons Project Number: None Given Location: Langley Jal Unit Injection #85

Lab Order Number: 7A19009

Report Date: 01/26/07

Elke Environmental P.O. Box 14167 Odessa TX, 79768 Project: Phoenix Hydrocarbons Project Number: None Given Project Manager: Kim Baker Fax: (432) 366-0884

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP1@ 3'	7A19009-01	Soil	01/18/07 12:30	01-19-2007 14:30
'TP4@ 3'	7A19009-02	Soil	01/18/07 12:40	01-19-2007 14:30
TP6@ 1'	7A19009-03	Soil	01/18/07 12:50	01-19-2007 14:30
TP7@ 1'	7A19009-04	Soil	01/18/07 13:00	01-19-2007 14:30
TP8@ 1'	7A19009-05	Soil	01/18/07 13:10	01-19-2007 14:30

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Detab	Descoursed	Anchand	Method	Notes
				Dianon	Batch	Prepared	Analyzed	Method	ivotes
TP1@ 3' (7A19009-01) Soil								······	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EA72202	01/22/07	01/23/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0			•			•	
Carbon Ranges C28-C35	ND	10.0	*	*	•		•		
Total Hydrocarbons	ND	10.0	н	*		•			
Surrogate: 1-Chlorooctane		80.8 %	70-1	30	•	"	*	*	
Surrogate: 1-Chlorooctadecane		51.8 %	70-1	30	"	*	"	~	S-0-
TP4@ 3' (7A19009-02) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EA72202	01/22/07	01/22/07	EPA 8015M	
Carbon Ranges C12-C28	ND	10.0	•	*		•			
Carbon Ranges C28-C35	ND	10.0	•	-			•	•	
Total Hydrocarbons	ND	10.0	•.	*	*		•	•	
Surrogate: 1-Chlorooctane		96.0 %	70-1	30	*	W	Ħ	W	
Surrogate: 1-Chlorooctadecane		72.6 %	70 -1	30	-	"	"	"	
TP6@ 1' (7A19009-03) Soli									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EA72202	01/22/07	01/22/07	EPA 8015M	
Carbon Ranges C12-C28	J [4.94]	10.0		n					
Carbon Ranges C28-C35	ND	10.0	-	-	*			•	
Total Hydrocarbons	ND	10.0	•			•		•	
Surrogate: 1-Chlorooctane		91.2 %	70-	130	"	"	"	"	
Surrogate: 1-Chlorooctadecane		75.0 %	70- .	130	*			*	
TP7@ 1' (7A19009-04) Soil								i	
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EA72202	01/22/07	01/22/07	EPA 8015M	
Carbon Ranges C12-C28	J [8.68]	10.0	*	-	•	-		•	
Carbon Ranges C28-C35	ND	10.0		*					
Total Hydrocarbons	ND	10.0		-			H		
Surrogate: 1-Chlorooctane		93.4 %	70	130	,	"	"	-	
Surrogate: 1-Chlorooctadecane		68.4 %	70	130	*	"	,		S-0

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Organics by GC

Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TP8@ 1' (7A19009-05) Soil									
Carbon Ranges C6-C12	ND	10.0	mg/kg dry	1	EA72202	01/22/07	01/22/07	EPA 8015M	
Carbon Ranges C12-C28	J [3.50]	10.0						•	J
Carbon Ranges C28-C35	ND	10.0	•		*	•			
Total Hydrocarbons	ND	10.0			•				
Surrogate: 1-Chlorooctane		90.0 %	70-1	30	#	N	"	#	
Surrogate: 1-Chlorooctadecane		71.2 %	70-1	30	*	•	*	"	

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General Chemistry Parameters by EPA / Standard Methods

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
TP1@ 3' (7A19009-01) Soil									
Chloride	4220	50.0	mg/kg	100	EA72305	01/23/07	01/23/07	EPA 300.0	
% Moisture	6.9	0.1	%	1	EA72206	01/21/07	01/22/07	% calculation	
TP4@ 3' (7A19009-02) Soil									
Chloride	6200	100	mg/kg	200	EA72305	01/23/07	01/23/07	EPA 300.0	
% Moisture	6,8	0.1	%	1	EA72206	01/21/07	01/22/07	% calculation	
TP6@ 1' (7A19009-03) Soil									
Chloride	4030	50.0	mg/kg	100	EA72305	01/23/07	01/23/07	EPA 300.0	
% Moisture	6.7	0.1	%	1	EA72206	01/21/07	01/22/07	% calculation	
TP7@ 1' (7A19009-04) Soil									
Chloride	7790	100	mg/kg	200	EA72305	01/23/07	01/23/07	EPA 300.0	
% Moisture	4.6	0.1	%	1	EA72206	01/21/07	01/22/07	% calculation	
TP8@ 1' (7A19009-05) Soii									
Chloride	3130	50.0	mg/kg	100	EA72305	01/23/07	01/23/07	EPA 300.0	
% Moisture	6.8	0.1	%	1	EA72206	01/21/07	01/22/07	% calculation	

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Organics by GC - Quality Control

Environmental Lab of Texas

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch EA72202 - Solvent Extraction (GC)				<u>.</u>						<u>.</u>
Blank (EA72202-BLK1)				Prepared: (01/22/07 A	nalyzed: 01	/23/07			
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 Hydrocarbons	ND	10.0	•							
Surrogate: 1-Chlorooctane	39.8		mg/kg	50.0		79.6	70-130			
Surrogate: 1-Chlorooctadecane	36.8		"	50.0		73.6	70-130			
LCS (EA72202-BS1)				Prepared 8	2 Analyzed:	01/22/07				
Carbon Ranges C6-C12	516	10.0	mg/kg wet	500		103	75-125			
Carbon Ranges C12-C28	410	10.0		500		82.0	75-125			
Carbon Ranges C28-C35	ND	10.0		0.00			75-125			
Total Hydrocarbons	926	10.0		1000		92.6	75-125			
Surrogate: 1-Chlorooctane	56.5		mg/kg	50.0		113	70-130			
Surrogate: 1-Chlorooctadecane	38.6		n	50.0		77.2	70-130			
Calibration Check (EA72202-CCV1)				Prepared &	k Analyzed:	01/22/07				
Carbon Ranges C6-C12	243		mg/kg	250		97.2	80-120			
Carbon Ranges C12-C28	285		*	250		114	80-120			
Total Hydrocarbons	528		•	500		106	80-120			
Surrogate: 1-Chlorooctane	58.6		"	50.0		117	70-130		· · ·	
Surrogate: 1-Chiorooctadecane	44.3		*	50.0		88.6	7 0-130			
Matrix Spike (EA72202-MS1)	Sou	irce: 7A1900	9-01	Prepared &	& Analyzed:	01/22/07				
Carbon Ranges C6-C12	647	10.0	mg/kg dry	537	ND	120	75-125		<u>1979-1977 - Station y Sona a super</u>	
Carbon Ranges C12-C28	500	10.0	•	537	ND	93.1	75-125			
Carbon Ranges C28-C35	ND	10.0		0.00	ND		75-125			
Total Hydrocarbons	1150	10.0	•	1070	ND	107	75-125			
Surrogate: 1-Chlorooctane	52.3		mg/kg	50.0		105	70-130			
Surrogate: 1-Chlorooctadecane	41.2		*	50.0		82.4	70-130			

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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 EA72202 - Solvent Extraction (GC)										
Matrix Spike Dup (EA72202-MSD1)	Sou	rce: 7A19009	-01	Prepared &	z Analyzed:	01/22/07				
Carbon Ranges C6-C12	619	10.0	mg/kg dry	537	ND	115	75-125	4.26	20	
Carbon Ranges C12-C28	485	10.0	•	537	ND	90.3	75-125	3.05	20	
Carbon Ranges C28-C35	ND	10.0	•	0.00	ND		75-125		20	
Total Hydrocarbons	1100	10.0		1070	ND	103	75-125	3.81	20	
Surrogate: 1-Chlorooctane	60.7		mg/kg	50.0		121	70-130			
Surrogate: 1-Chlorooctadecane	42.0		n	50.0		84.0	70-130			

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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 EA72206 - General Preparation (Prep)										
Blank (EA72206-BLK1)				Prepared: (01/19/07 A	nalyzed: 01	/22/07			
% Solids	99.8		%							
Duplicate (EA72206-DUP1)	Sou	rce: 7A18010-	01	Prepared: (01/19/07 A	nalyzed: 01	/22/07		•	
% Solids	95.3		%		95.4			0.105	20	
Duplicate (EA72206-DUP2)	Sou	rce: 7A19008-	-04	Prepared: (01/19/07 A	nalyzed: 01	/22/07			
% Solids	24.2	· · · · ·	%		23.9			1.25	20	
Batch EA72305 - Water Extraction										
Blank (EA72305-BLK1)				Prepared 8	z Analyzed	01/23/07				
Chloride	ND	0.500	mg/kg							
LCS (EA72305-BS1)				Prepared 8	z Analyzed	: 01/23/07				
Chloride	10.7	0.500	mg/kg	10.0		107	80-120			
Calibration Check (EA72305-CCV1)		·		Prepared 8	2 Analyzed	: 01/23/07				
Chloride	9.89		mg/L	10.0		98.9	80-120			
Duplicate (EA72305-DUP1)	Sou	rce: 7A19009-	-01	Prepared &	k Analyzed	: 01/23/07				
Chloride	4160	50.0	mg/kg		4220			1.43	20	
Duplicate (EA72305-DUP2)	Sou	irce: 7A12024	-06	Prepared &	د Analyzed	: 01 /23/07				
Chloride	2450	50.0	mg/kg		2430		··········	0.820	20	
Matrix Spike (EA72305-MS1)	Sou	irce: 7A19009	-01	Prepared &	2 Analyzed	: 01/23/07				
Chloride	6600	100	mg/kg	2000	4220	119	80-120			

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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 EA72305 - Water Extraction										
Matrix Spike (EA72305-MS2)	Som	rce: 7A12024-	-06	Prepared &	t Analyzed:	01/23/07				
Chloride	3630	50.0	mg/kg	1000	2430	120	80-120			

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	vironmentał x 14167		Project: Phoenix Hydrocarbons Project Number: None Given							
Odessa	TX, 79768	Project Manager:	Kim Baker							
		Notes and De	finitions							
S-04	The surrogate recovery for this	sample is outside of established	control limits due to a sample matrix ef	ffect.						
3	Detected but below the Reporti	ing Limit; therefore, result is an e	stimated concentration (CLP J-Flag).							
DET	Analyte DETECTED									
ND	Analyte NOT DETECTED at or al	bove the reporting limit								
NR	Not Reported .									
dry	Sample results reported on a dry w	weight basis								
RPD	Relative Percent Difference									
LCS	Laboratory Control Spike									
MS	Matrix Spike	·								
Dun	Dunlicate									

Report Approved By

Brent Barron, Laboratory Director/Corp. Technical Director Celey D. Keene, Org. Tech Director Raland K. Tuttle, Laboratory Consultant

Date: O

James Mathis, QA/QC Officer Jeanne Mc Murrey, Inorg. Tech Director

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

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id anal ysis request	NIX HYDROCARDON.	-	if JAL WIT JUBGE	N1#			Analyze For:		compose (costerses) (costerses	2118 (2118 (2118)								ra Intract? C N Receipt: ments;	dez glazes	w scal jar	~
CHAIN OF CUSTODY RECORD AND ANAL YSIS REQUEST	Project Name: PHOE	Project #:	Project Loc: A ANGL CY	₩ A			TCLP: Anal TOTA.:		1650 - 1052 1650	Volat Antor Antor Antor Antor Antor					XXX	-		Sample Containers intex7 Temperature Upon Receipt Laboratory Comments:	a min	101 2:20 2:5	
					Fax No: 432-366-0884			Preservative	n (gbecy) e O' H	Man Ng Mg Mg Mg Mg Mg Mg Mg								no here why	Date	(COQ) 11/19/07	\sim
I, Ltd.					Fax				beiqme2 et			1-11.11	4		a/:/ Lo.1/-/	 	·		Received by:	Received by ELOT:	
Environmental Lab of Texas I, 12600 West I-20 East Ddeesa, Texas 79783 Fax: 916-683-1713	Project Manager: Kim Baker	company Name Elke Environmental, Inc.	company Address: P. O. Box 14167	ctty/state/zip: Odessa, Tx 79768	Тејеріюпе No: 432-366-0043	Aller VI-VS				FIELD CODE	TFIRI	~!	12301	11400/	745@11			.:500	2 1-15.07 2:30p	Date Time	
Environm 12600 West I-20 East Odessa, Texas 79763	Project Ma	Company	Company Ad	Cłty/8ta	Telephol	Sampler Signature:	(ab use only)	ORDER #: 1/4/0				5			E. LE			Special Instructions: Jons:	Relinquished by:	Reinquished by:	

Environmental Lab of Texas

	Variance/ Corrective Action Report- Sample
Client:	EIKE ENV.
Date/ Time:	1119/01 2:30
Lab ID # :	<u>nA19009</u>
Initials:	CK_

Log-In

Sample Receipt Checklist

				Cíle	nt Initials
#1	Temperature of container/ cooler?	Yes	No	2.5 °C	
#2	Shipping container in good condition?	Nes	No		
#3	Custody Seals intact on shipping container/ cooler?	Yes	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	Xes	No	Not Present	
#5	Chain of Custody present?	Yes	No		
#6	Sample instructions complete of Chain of Custody?	XES	No		1
#7	Chain of Custody signed when relinquished/ received?	(Ales	No		
#8	Chain of Custody agrees with sample label(s)?	Tes	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	Yes	No	Not Applicable	
#10	Sample matrix/ properties agree with Chaln of Custody?	Yes	No	<u> </u>	
#11	Containers supplied by ELOT?	Yes	No	1	
#12	Samples in proper container/ bottle?	1 Xes	No	See Below	
#13	Samples property preserved?	Yes	No	See Below	
#14	Sample bottles intact?	Yes	No		
#15	Preservations documented on Chain of Custody?	1006	No	1	
#16	Containers documented on Chain of Custody?	Yes	No		
17	Sufficient sample amount for indicated test(s)?	. Yes	No	See Below	
#18	All samples received within sufficient hold time?	785	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	Not Applicable	
#20	VOC samples have zero headspace?	Res	No	Not Applicable	

Variance Documentation

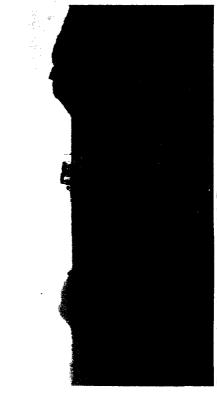
Contact:		Contacted by:	Date/ Time:	
Regarding:				
Corrective Action Take	n:			
	· · · · · · · · · · · · · · · · · · ·			
Check all that Apply:		See attached e-mail/ fax Client understands and would like to proce Cooling process had begun shortly after sy		

.

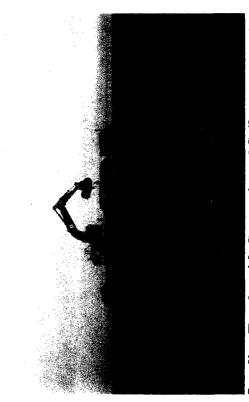


North to South Before Excavation

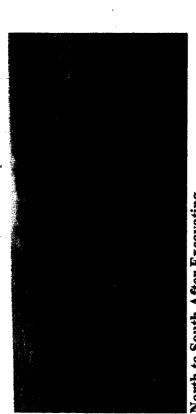




Excavating Spill Area with Dozer

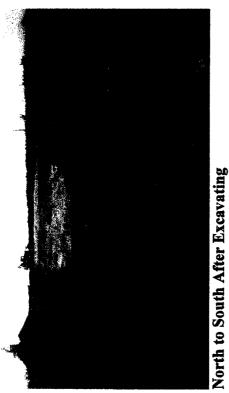


Loading Trucks with Contaminated Soil



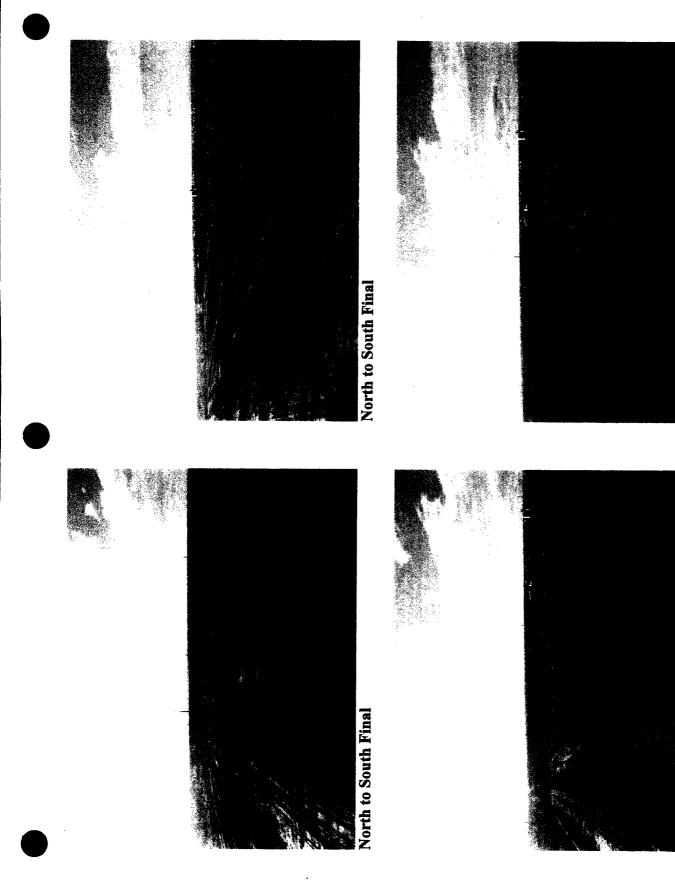
North to South After Excavating







Backfilling Spill Area



North to South Final

North to South Final

	New Mexico and Natural Resources IF IN A Revised October 10, 2003
District I State of	New Mexico
1625 N. French Dr., Hobbs, NM 88240 District II Energy Minerals	and Natural Resources W Sking Revised October 10, 2003
1301 W. Grand Avenue, Artesia, NM 88210 District III Oil Conse	rvation Division
1000 Rio Brazos Road, Aztec, NM 87410	h St Francis Dr - C S - N/ with Pule 116 on back
	e, NM 87505
	n and Corrective Action
Actual i voincado	OPERATOR OF 67 BELLING AREPORT
Name of Company – Phoenix Hydrocarbons	Contact - Billy Snead
Address P. O. Box 3638 Midland , TX 79702	Telephone No. 432-686-9869
Facility Name – LJU Waterflood	Facility Type LJU Injection Well #85
Surface Owner Woolworth Estate Mineral Owner	Lease No. LC-032511
LOCATIO	NOFRELEASE API 30.025.11493
Unit LetterSectionTownshipRangeFeet from theNorthP825S37E660'South	h/South Line Feet from the East/West Line County 660' East Lea
Latitude 32.8.32N	Longitude 103.10.69W
	Longitude_103.10.69WWTE 130'
Type of Release - Produced Water	Volume of Release - 50bbl Volume Recovered - 0
Source of Release - pinhole in injection line Was Immediate Notice Given?	Date and Hour of Occurrence9/28 Date and Hour of Discovery9/28/AM If YES, To Whom?
Yes ⊠ No □ Not Required	Pat in Hobbs office, left message
By Whom? Alan Standfer	Date and Hour 10/2/06 at 10:00 AM
Was a Watercourse Reached?	If YES, Volume Impacting the Watercourse.
Yes 🛛 No	
Describe Cause of Problem and Remedial Action Taken.* Pinhole leak	in injection line. A crew was called out to replace the joint with the leak.
plat map) will be excavated 3' deep and hauled to Sundance Disposal th backfilled. The bottom sloped area on the side of the hill(Blue on plat n with fresh top soil. A final closure report will be given at the end of the I hereby certify that the information given above is true and complete to 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 should their operations have failed to adequately investigate and remedi	al delineated the site, the plat map and analytical is attached. The top area (Red on en a 20 mil impervious liner will be installed and 3' of fresh top soil will be hap) will be excavated 1' deep and hauled to Sundance disposal then backfilled job. NMOCD will be given 48 hrs notice before any samples are taken. the best of my knowledge and understand that pursuant to NMOCD rules and notifications and perform corrective actions for releases which may endanger the NMOCD marked as "Final Report" does not relieve the operator of liability ate contamination that pose a threat to ground water, surface water, human health does not relieve the operator of responsibility for compliance with any other
federal, state, or local laws and/or regulations.	OIL CONSERVATION DIVISION
signature: Rily Anud	
Printed Name: BILLY J. SWEED	Approved by District Supervisor:
Title: ENGINEER	Approval Date: 11.20.06 Expiration Date: 2.20.07
E-mail Address: DSNEED Ct3MID, COM	Conditions of Approval:
Date: 11/8/06 Phone: 432-696-9869	
	upper contractions
incident - NPH-063459	54620 KPT 1193
* Attach Additional Sheets If Necessary in Lident - NPALOG 3455 application - pPALOG 3455	1/00

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