Dirt Work • On-Site Remediation • Soil Testing • Excavation

# RECEIVED

January 24, 2008

Mr. Larry Johnson Environmental Engineer Oil Conservation Division New Mexico Energy, Minerals and Natural Resources Department 1625 N. French Drive Hobbs, New Mexico 88240

MENTAL

JAN 3 0 2008

Re: Spill Remediation Report, Lovington Paddock Unit #7, Unit Letter P (SE/4, SE/4), Section 25, Township 16 South, Range 36 East, Lea County, New Mexico (Latitude: N 32 deg. 53 min. 12.85 sec. / Longitude: W 103 deg. 18 min. 1.02 sec.) 1RP #1604

Dear Mr. Johnson:

Chevron MidContinent SBU (Chevron) has retained Ocotillo Environmental, LLC (Ocotillo) to remediate impacts to soil from a leak at an injection line located approximately 75 feet east of the Lovington Paddock Unit #7 well. The well is located in the southeast quarter (SE/4) of the southeast quarter (SE/4), Section 25, Township 16 South, Range 36 East, Lea County, New Mexico (Site). Approximately 20 barrels of produced water was released from the injection line on September 26, 2007, and approximately 15 barrels was recovered from the site. A C-141 was submitted to the New Mexico Oil Conservation Division (NMOCD) on October 1, 2007. A Spill Investigation Workplan was submitted to the NMOCD on October 4, 2007, and verbal approval of the plan was granted on October 11, 2007. A Spill Remediation Workplan was submitted to the NMOCD on December 10, 2007, and approval was granted on December 14, 2007. Figure 1 shows the site location.

Based on published literature (1961), well records of the New Mexico State Engineer, and well records of the United States Geological Survey, groundwater occurs at approximately 65 feet bgs in the well located nearest the Site. No domestic water wells are located within 1,000 feet of the site. The NMOCD has established recommended remediation action levels (RRALs) for benzene, total BTEX and TPH resulting from spills of natural gas liquids ("Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993"). Remediation levels for benzene, total BTEX and TPH were calculated using the following NMOCD criteria:

Criteria	Result	Ranking Score
Depth-to-Groundwater	50 - 99 Feet	10
Wellhead Protection Area	No	0
Distance to Surface Water Body	>1000 Horizontal Feet	0
		Total: 10

OKTO Close William Churs William 180/98

P.O. Box 1816 • Hobbs, NM 88241 Office (505) 393-6371 • Fax (505) 393-6374

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Mr. Larry Johnson Page 2 January 24, 2008

The following RRALs have been assigned based on NMOCD criteria:Benzene10 mg/kgTotal BTEX50 mg/kgTPH1,000 mg/kg

## **Initial Investigation**

On November 13, 2007, Ocotillo installed five (5) soil borings (BH-1 through BH-5) at the site in order to assess the horizontal and vertical limits of the spill. Soil had been previously scraped from the surface of the spill area to a depth of approximately one foot below ground surface (bgs) and stockpiled on site. Figure 2 shows the locations of the soil borings.

As reported in the Spill Remediation Workplan, TPH concentrations in all samples were below the RRAL of 1,000 mg/kg. Chloride concentrations in samples from borings BH-1, BH-4 and BH-5 were all below the RRAL of 250 mg/kg. The sample from boring BH-2 at a depth of 0-2' bgs reported a chloride concentration of 3,200 mg/kg. All other samples from boring BH-2 reported chloride concentrations below 250 mg/kg.

#### **Remediation Activities**

On January 14, 2008, a soil sample was collected from the present surface (1 foot bgs) in the area of boring BH-1, and submitted to Cardinal Laboratory (Cardinal) for chloride analysis. The laboratory reported a chloride concentration of 4,480 mg/kg. On January 15, 2008, Ocotillo began excavation of the impacted soil in the vicinity of boring BH-2. Soil was excavated to a depth of approximately 2.5 to 3 feet bgs until soil samples were collected from the bottom (SS-1, SS-2 and SS-3) and sides (N Comp, S Comp, and E Comp) of the excavation for laboratory analysis of chlorides. Table 1 provides a summary of the laboratory results. Figure 2 shows the sample locations. Appendix A provides a copy of the laboratory reports and chain of custody documentation.

Referring to Table 1, soil samples collected from the bottom (SS-1, SS-2 and SS-3), north (N Comp), and east (E Comp) sides reported chloride concentrations above 250 mg/kg. Excavation continued in the vicinity of boring BH-2 on January 16, 2008, until confirmation samples were collected from the bottom (SS-4, SS-5 and SS-6), north and east sides of the excavation. Soil was also excavated from the area of boring BH-1 to a depth of approximately 2 feet bgs until a confirmation sample was collected. All samples were delivered to Cardinal for laboratory analysis of chlorides. Table 1 provides a summary of the laboratory results. Figure 2 shows the sample locations. Appendix A provides a copy of the laboratory reports and chain of custody documentation.

Referring to Table 1, final samples collected from the area of borings BH-1 and BH-2 reported chloride concentrations below 250 mg/kg.

All stockpiled and newly excavated soil (approximately 360 yards) was removed from the site to an NMOCD approved disposal facility. The excavation was backfilled with soil from the New Mexico State Pit #294. Mr. Larry Johnson Page 3 January 24, 2008

Chevron respectfully requests that the Lovington Paddock #7 site be closed by the NMOCD. A final C141 form is attached as the last page of this report.

If you have any questions or need additional information, please call Mr. Larry Ridenour at (505) 396-4414 x102, or myself at (505) 441-7244. We may also be reached by email at Lridenour@chevron.com or <u>Cindy.Crain@gmail.com</u>.

Sincerely, Ocotillo Environmental, LLC

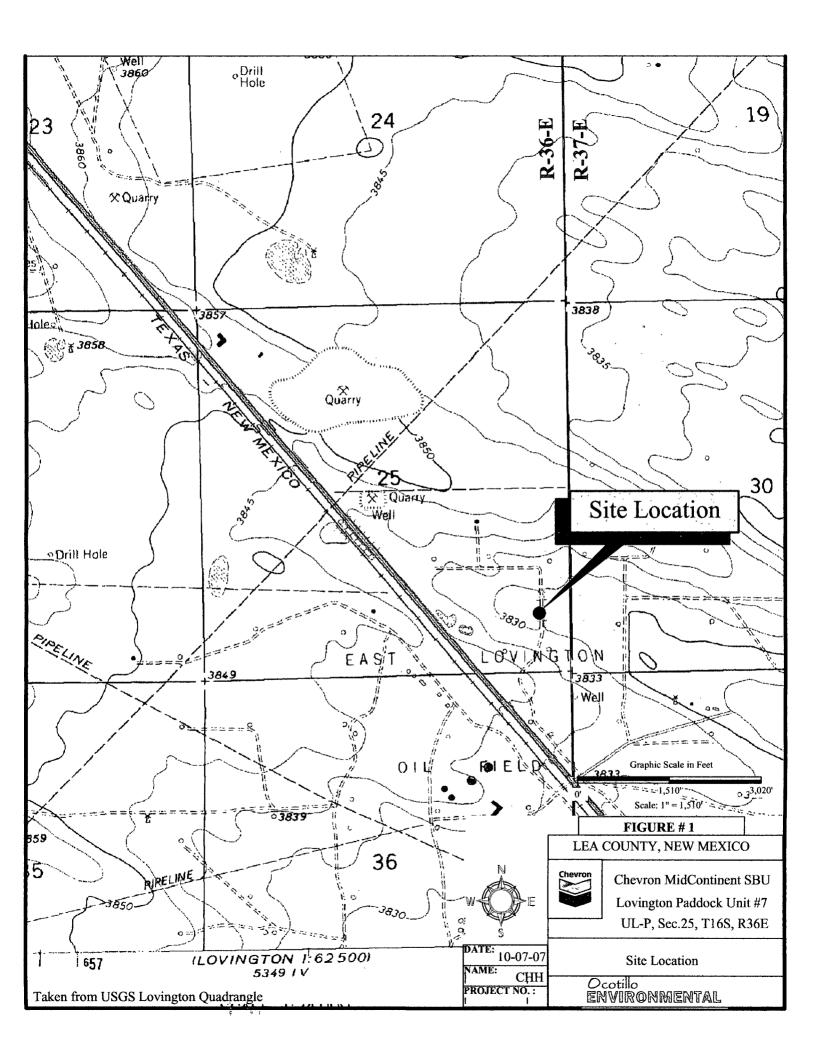
Lindy K. Cran

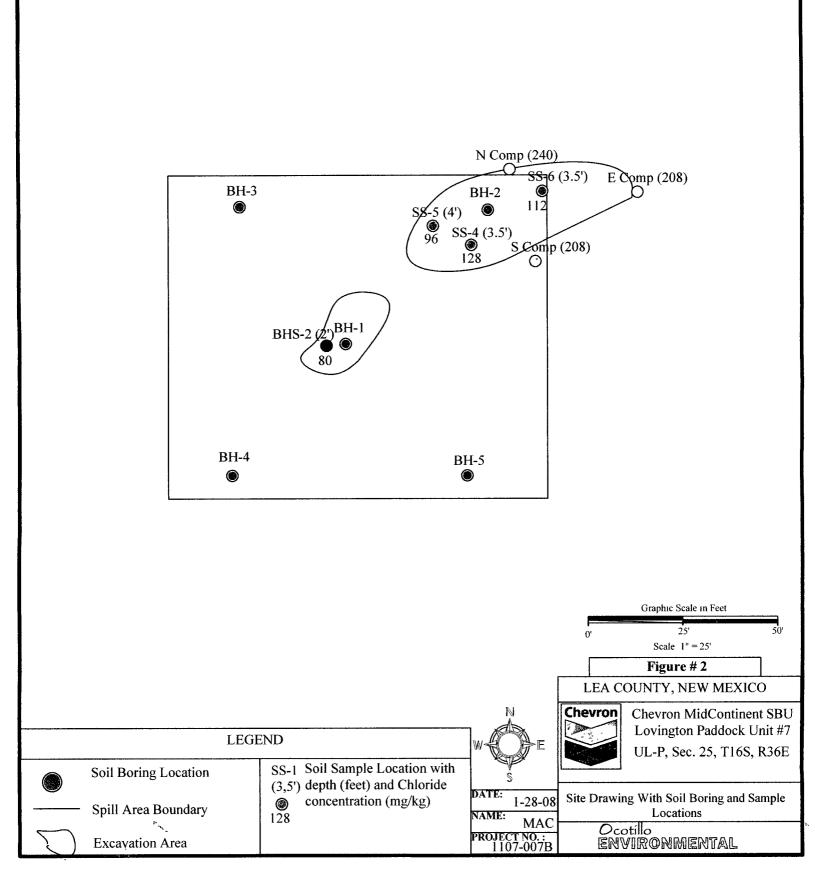
Cindy K. Crain, P.G. Environmental Manager

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cc: Larry Ridenour, Chevron

**FIGURES** 





TABLE

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#### Table 1:

Summary of Laboratory Analysis of Soil Samples Chevron MidContinent Alaska, Lovington Paddock #7 Section 25, Township 16 South, Range 36 East Lea County, New Mexico

Sample Date	Soil Boring Number	Sample Depth (feet BGS)	TPH (GRO) C6 - C12 mg/kg	TPH (DRO) C12 - C28 mg/kg	TPH (ORO) C28 - C35 mg/kg	Total TPH C6 - C35 mg/kg	Chloride (mg/kg)
	RRAL	(			BB	1000	250
1/14/08	BH-1	1				+	4,480.0
1/16/08	BHS-2	2					80.0
11/13/07	BH-1	5-7	<16.7	<16.7	<16.7	<50.1	94 5
		10-12	<16.7	<16.7	<16.7	<50 1	96.5
		15-17					42.5
		20-22					42 5
······			·····				
11/13/07	BH-2	0-2	<16 1	61.6	<16.1	61.6	3,200.0
1/15/08	SS-1	2.5	***				528 0.0
1/16/08	SS-4	3.5	•				128 0
1/15/08	SS-2	3					464.0
1/16/08	SS-5	4					96.0
1/15/08	SS-3	25					416.0
1/16/08	SS-6	3.5					112.0
1/15/08	N Wall Comp						* 560:0
1/16/08	N Wall Comp						240.0
1/15/08 1/15/08	S Wall Comp						208 0 928.0 k ;
1/15/08	E Wall Comp E Wall Comp						
11/13/07	E wan Comp	5-7	<16.5	<16.5	<16.5	<49.5	208 0
11/13/07		10-12		~10.5	~10.5	~49.3	191.0
11/13/07		15-17					128.0
11/13/07		20-22					63.8
11/13/07		25-27					42.5
			A				+
11/13/07	BH-3	0-2	<15.9	75.3	44.1	119.4	67 7
11/13/07		5-7	<15.7	<15.7	<15.7	<47.1	223.0
11/13/07		10-12	+				255.0
11/13/07		15-17					234 0
11/13/07		20-22					> 277.0
11/13/07		25-27					170 0
11/13/07		30-32					128.0
11/13/07	BH-4	0-2	<153.	<15 3	<15.3	<45.9	43 4
11/13/07		5-7	<15.3	<153	<15 3	<45.9	43.4
11/13/07		10-12					42.5
11/13/07		15-17					42.5
				······································			<u> </u>
11/13/07	BH-5	0-2	<15.4	<15.4	<15.4	<46.2	65.5
11/13/07		5-7	<15 7	<15.7	<15.7	<47.1	44.4
11/13/07		10-12					21.3
11/13/07		15-17					21.3
11/13/07		20-22					42.5

Notes.

1 BGS Depth in feet below ground surface

2. mg/kg Mılligrams per kilogram

3 GRO. Gasoline Range Organics

4 DRO: Diesel Range Organics

5. ORO. Oil Range Organics

## **APPENDIX A**

## ANALYTICAL DATA AND CHAIN OF CUSTODY DOCUMENTATION



ANALYTICAL RESULTS FOR OCOTILLO ENVIRONMENTAL, LLC ATTN: CINDY CRAIN P.O. BOX 1816 HOBBS, NM 88241 FAX TO: (432) 272-0304

Receiving Date: 01/14/08 Reporting Date: 01/15/08 Project Owner: CHEVRON (1107-007B) Project Name: LOVINGTON PADDOCK UNIT #7 Project Location: LEA COUNTY, NM Analysis Date: 01/14/08 Sampling Date: 01/14/08 Sample Type: SOIL Sample Condition: INTACT Sample Received By: ML Analyzed By: KS

(mg/kg) 4,480
<u>1</u>
500
500
100
< 0.1

METHOD: Standard Methods 4500-CI'B Note: Analysis performed on a 1:4 w:v aqueous extract.

Bust Suplots

<u>0(//5/08</u> Date

### H14080 OCO

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 subsidiares, affiliates or successors ansing 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

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240	2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476	

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City: 140	bbsState: NA1	Zip:	8	8240		Attn:								-							l		
Phone #: 575-441-7244 Fax #: 432-272-0304					Address:																		
Project #: 110	17-007B Project Owner Duington Paddock II, n: Lea County A Steve Canno,	r: (	M.	OUVGA	,	City	ľ:																
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† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476



ANALYTICAL RESULTS FOR OCOTILLO ENVIRONMENTAL, LLC ATTN: CINDY CRAIN P.O. BOX 1816 HOBBS, NM 88241 FAX TO: (432) 272-0304

Receiving Date: 01/15/08 Reporting Date: 01/16/08 Project Owner: CHEVRON (1107-007B) Project Name: LOVINGTON PADDOCK UNIT #7 Project Location: LEA COUNTY, NM Analysis Date: 01/16/08 Sampling Date: 01/15/08 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: ML Analyzed By: HM

		CI
LAB NO.	SAMPLE ID	(mg/kg)
H14091-1	SS-1 @ 2.5'	528
H14091-2	SS-2 @ 3'	464
H14091-3	SS-3 @ 2.5'	416
H14091-4	NORTH WALL COMP-S	560
H14091-5	SOUTH WALL COMP-S	208
H14091-6	EAST WALL COMP-S	928
Quality Con	trol	500
Quality Con True Value		500 500
	QC	

METHOD: Standard Methods4500-CI'BNote: Analyses performed on 1:4 w:v aqueous extracts.

01-16-08

Date

## H14091 OCO

PLEASE NOTE Liability and Damages Cardinal's liability and client's exclusive remedy for any claim ansing, 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 hable 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 ansing 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

# ARDINAL LABORATORIES

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

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PHONE (575) 393-2326 • 101 E MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR OCOTILLO ENVIRONMENTAL, LLC ATTN: CINDY CRAIN P.O. BOX 1816 HOBBS, NM 88241 FAX TO: (432) 272-0304

Receiving Date: 01/16/08 Reporting Date: 01/17/08 Project Owner: CHEVRON (1107-007B) Project Name: LOVINGTON PADDOCK UNIT #7 Project Location: LEA COUNTY, NM Analysis Date: 01/16/08 Sampling Date: 01/16/08 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: HM Analyzed By: KS

		C					
LAB NO.	SAMPLE ID	(mg/kg)					
H14098B-1	SS-4 @ 3.5'	128					
H14098B-2	SS-5 @ 4'	96					
H14098B-3		112					
H14098B-4	COMP S NORTH WALL	240					
H14098B-5	COMP S EAST WALL	208					
H14098B-6	H14098B-6 BHS #2						
Quality Con		500					
True Value		500					
% Recovery		100					
Relative Per	cent Difference	2.0					
METHOD: Sta	indard Methods	4500-CI <sup>-</sup> B					

METHOD: Standard Methods 44 Note: Analyses performed on 1:4 w:v aqueous extracts.

usto Asproto

<u>01/17/08</u> Date

H14098B OCO

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 subsidiares 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

# ARDINAL LABORATORIES 101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603

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analyses All claims Includ	d Damages. Cardinal's liability and cliont's exclusive remedy for ng those for negligence and any other cause whatsoever shall	e deemed waived unless made in writing a	nd received by Cardinal within 30 days afte	r completion of the applicable								
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NOTE: THIS & to Candy about Cic & sample ich not matching. She soid the sumple Id was correct & give me permission to change Cic. On 16-07

# C141 DOCUMENTATION

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Form C-141 Revised October 10, 2003

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

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

			Rela	ease Notifi	cation	and Co	rrective A	ction				
						OPERAT	ror		🗌 Initia	al Report	🛛 F	inal Report
Name of Co			dcontinent LP	Contact Larry Ridenour								
Address		Box 423 Lor	NM 88260		Telephone No(505) 396-4414 x 102Facility TypeInjection Line							
Facility Nat		ngton Paddo	CK # /		1				¥27			\
Surface Owner: City of Lovington Mineral Owner						: State of NM			Lease No. 9077-2 1RP # 1604 API # 30-025-03747			
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Type of Release Produced Water   Source of Release Injection line						Volume of Release 20 BW Date and Hour of Occurrence			Volume Recovered 15 bbl fluids Date and Hour of Discovery			
						9/26/07 7			9/26/07 7 30 AM			
Was Immediate Notice Given?						If YES, To Whom? Pat Caperton						
By Whom? Larry Ridenour						Date and Hour 9/27/07 10.25 AM						
Was a Water	course Rea		Yes 🛛	] No		If YES, Vo	lume Impacting t	he Water	course			
Fiberglass lit to pick up sta	ne parted in inding wate I dirt remov	r. Picked up val began on 9	detected b 15 bbls of /27/07 C	y SCADA system water total. Estit hlorides: 35,300			shortly thereafter bls water with ski					
An area appr imits of the concentration	oximately I spill. Addit	tional soil was	excavated excavated clean up	d to a depth of on d at the center and standards. Impac	d northea	st portions of	l borings were my the site until con an NMOCD app	firmation	n samples	reported all	chloride a	and TPH
egulations a bublic health should their o or the enviro	ll operators or the envi operations l nment. In a	are required t ronment. The nave failed to a	o report a acceptane adequately )CD accep	nd/or file certain ce of a C-141 rep / investigate and r	release no ort by the remediate	otifications and NMOCD m contamination	knowledge and und perform correct arked as "Final R on that pose a thr e the operator of	tive action eport" de eat to gro	ons for relies not relies not relies	eases which eve the open , surface wa	may end rator of li ster, huma	anger ability an health
Signature <sup>.</sup>	Za	707.	<u>}</u>				<u>OIL CON</u>	SERV.	ATION	DIVISIC	<u>DN</u>	
Printed Name: Larry Ridenour						Approved by District Supervisor: This Williams						
Fitle Opera	tions Repre	sentative			/	Approval Dat	e: []30]0	28 E	xpiration	Date:	130/0	28-
2-mail Addre	ess: Lride	nour@chevror	n com		(	Conditions of	Approval:			Attached		
	4/08	Phon ets If Necess		96-4414 x 102			······································					

\* Attach Additional Sheets It Necessary