Cleanup Report Lynx Petroleum Reed-Sanderson #9 API# 30025041820000 Lea County, New Mexico

T-20-5 R-36-E L See 3

May 6, 2002



Prepared for:

Lynx Petroleum **3325 Enterprise Drive** Hobbs, New Mexico 88240 Hynx-13645 application - pPAC0603937585

By:

Safety & Environmental Solutions, Inc. 703 E. Clinton Suite 103 Hobbs, New Mexico 88240 (505) 397-0510



Lynx Petroleum Consultants, Inc.

P.O. Box 1708 3325 Enterprise Drive Hobbs, New Mexico 88241

505 392-6950

Fax: 505 392-7886

June 4, 2002

Oil Conservation Division 1625 N. French Dr. Hobbs, NM 88240

RE: Reed Sanderson Unit #9 Cleanup Report

Dear Mr. Johnson,

Enclosed please find your copy of the subject cleanup report. If you have any questions, please call.

Sincerely,

LYNX PETROLEUM CONSULTANTS, INC.

Marc Wise

Enc



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I. Background

Safety & Environmental Solutions, Inc. (SESI) was contacted by Lynx Petroleum to perform assessment and cleanup services on an area impacted by the spillage of an unknown amount of <u>crude</u> bil from a flow line near the Reed – Sanderson #9 well site. The subject area is located in <u>Unit L-of Section 3</u>, <u>Township 20S</u>, <u>Range 36E</u>/in Lea County, New Mexico. The site is situated on a relatively level site. (Figure 1) The subject site is located in the pasture approximately ¹/₄ mile south of the Reed Sanderson # 9 well site. (Figure 2) Upon initial repair of the leak in the flow line, some of the impacted soils were placed on the adjoining roads in the area at the direction of the landowner. The area had been backfilled with soil from adjacent areas. Vertical extent of the contamination had not been determined.

II. Contaminant and Size of Leak

The suspected contaminant is produced water/crude oil emulsion, which leaked from the flow line associated with production in the area. The approximate size of the impacted area is approximately 1500 sq. ft. The crude oil and produced water is considered exempt oilfield waste. No evidence of other contaminants was observed.

III. Surface and Ground Water

The nearest water well to the subject site is located in Section 3, T20S, R36E. The depth of the water in this well is 38.60? according to the database provided by the New Mexico State Engineer's Office.

IV. Soils

The soils in the area are predominantly sandy loam with indurated caliche at a depth of 36 to 48".

V. Work Performed

The cleanup level reached by the application of the "Guidelines for Remediation of Leaks, Spill and Releases" New Mexico Oil Conservation Division – August 13, 1993 to this site is 100 ppm TPH.

The crude oil impacted soils were excavated and removed from the site. Approximately 1,128 cubic yards of soil were transported to The South Monument Surface Waste Facility, a New Mexico Oil Conservation Division (NMOCD) approved facility, in Lea County, New Mexico for disposal.

Lynx Petroleum Lea County, New Mexico

After excavation was completed, SESI retrieved composite samples from the bottom and sides of the excavation. The composite samples were preserved in appropriate containers and transported under chain of custody to Cardinal Laboratories in Hobbs, New Mexico for analysis of TPH (method TRPHC-EPA 600/7-79-020,418.1) and BTEX (method BTEX-EPA SW-846-8020). The results of the analysis are as follows.

DATE	SAMPLE ID	ТРН	Cl	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES
4/25/02	East Side Bottom	<10.0	96	<0.005	<0.005	<0.005	<0.015
5/1/02	West Side Bottom	<10.0	1100	<0.005	<0.005	<0.005	<0.015
5/1/02	West Side Sides	<10.0	256	<0.005	<0.005	<0.005	0.016

After samples were collected, the excavated area was backfilled with clean topsoil that was available at the location. The area was contoured back to normal grade.

VI. Appendices

Vicinity Map Site Plan Analytical Results Certificate of Waste Manifest Site Photos

Lynx Petroleum Lea County, New Mexico

Appendix A Vicinity Map



Lynx Petroleum Lea County, New Mexico

Appendix B Site Plan



Lynx Petroleum Lea County, New Mexico

Appendix C Analytical Results



PHONE (915) 673-7001 @ 2111 BEECHWOOD @ ABILENE, TX 79603

PHONE (505) 393-2326 . 101 E. MARLAND . HOBBS, NM 88240

ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS, INC. ATTN: BOB ALLEN 703 E. CLINTON, #103 HOBBS, NM 88240 FAX TO: (505) 393-4388

Receiving Date: 05/01/02 Reporting Date: 05/02/02 Project Number: NOT GIVEN Project Name: LYNX-REED SANDERSON LEAK Project Location: MONUMENT, NM Sampling Date: 05/01/02 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: AH Analyzed By: BC/AH

LAB NO.	SAMPLE ID	TPH (mg/Kg)	Cl* (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS	DATE:	05/02/02	05/02/02	05/01/02	05/01/02	05/01/02	05/01/02
H6711-1	W. SIDE-BTM. HOLE	<10.0	1100	< 0.005	<0.005	< 0.005	< 0.015
H6711-2	W. SIDE-SIDES	<10.0	256	<0.005	<0.005	< 0.005	0.016
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Quality Co	ntrol	218	950	0.110	0.105	0.106	0.301
True Value	QC	240	1000	0.100	0.100	0.100	0.300
% Recove	ry	90.8	95.0	110	105	106	100
Relative Pe	ercent Difference	7.0	5.0	3.6	0.5	3.3	6.2

METHODS: TRPHC-EPA 600/4-79-020 418.1;CI-Std. Methods 4500-CI'B; BTEX-EPA SW-846 8260 *Analyses performed on 1:4 w:v aqueous extracts.

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 incidental or subsidiaries. Taffiliates 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.

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PHONE (915) 673-7001 . 2111 BEECHWOOD . ABILENE, TX 79603

PHONE (505) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR SAFETY & ENVIRONMENTAL SOLUTIONS, INC. ATTN: BOB ALLEN 703 E. CLINTON, #103 HOBBS, NM 88240 FAX TO: (505) 393-4388

Receiving Date: 04/25/02 Reporting Date: 04/29/02 Project Number: LYN-02-001 Project Name: REED SANDERSON FLOW LIN E LEAK Project Location: MONUMENT, NM Sampling Date: 04/25/02 Sample Type: SOIL Sample Condition: COOL & INTACT Sample Received By: BC Analyzed By: BC/AH

LAB NUMBER SAMPLE ID	TPH (mg/Kg)	⊂CI* (mg/Kg)	BENZENE (mg/Kg)	TOLUENE (mg/Kg)	ETHYL BENZENE (mg/Kg)	TOTAL XYLENES (mg/Kg)
ANALYSIS DATE:	04/26/02	04/26/02	04/26/02	04/26/02	04/26/02	04/26/02
H6702-1 E. SIDE BOTTOM	<10.0	96	<0.005	<0.005	<0.005	<0.015
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Quality Control	218	1000	0.106	0.104	0.110	0.319
True Value QC	240	1000	0.100	0.100	0.100	0.300
% Recovery	90.8	100	106	104	110	106
Relative Percent Difference	7.0	4.0	1.8	3.6	8.6	3

METHODS:

TRPHC-EPA 600/4-79-020 418.1;CI-Std. Methods 4500-CI'B; BTEX-EPA SW-846 8260 *Analysis performed on a 1:4 w:v aqueous extract.

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 incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incidental escons or otherwise.

LABORATORIES, INC. asechwood, Abilene, TX 79603 101: East Marland, Hobbs, NM 86240 state: NM 21p: 83240 Rtf. State: NM 21p: 83240 Address: BB Company: SAME State: NM 21p: 83240 Address: Cliv: Project Owner: $U_{ALIX} PX + RC$, State: Cliv: BB Cliv: Project Owner: $U_{ALIX} PX + RC$, State: Cliv: State: NM 21p: 83240 Address: Cliv: State: BB Cliv: Project Owner: $U_{ALIX} PX + RC$, State: Zlp: State: NM 21p: 83240 N/TRIX Press SAMPLING State: NM 21p: 83240 M Phone #: Zlp: State: NM 21p: 83240 M/TRIX Press SAMPLING State: NM 21p: 83240 M Prome #: Zlp: State: NM 21p: 83240 M Press SAMPLING State: NM 21p: 83240 M Press SAMPLING State: NM 21p: 83240 M D D Time: State: NM 21p: 83240 M D D D Time: State: State: NM 21p: 83240 <th>Sampler Beilinquished: Relinquished By: Delivered By: (Circle One)</th> <th>Company Name: SEGT Project Manager: Address: 703 E, CLINTON City: HOBS Phone #: (505) 397–0510 Fax #: (505) 393–4388 Project Name: $R_{FF} cl Saxod$ Project Name: $R_{FF} cl Saxod$ Project Location: $V M C \lambda$ For LAB I.D. LAB I.D. Hb 702-1 East5: cl_{F} Filest NOTE: Hubbly and Damages. Curdents Lith and the hold on the h</th> <th>ARDINA</th>	Sampler Beilinquished: Relinquished By: Delivered By: (Circle One)	Company Name: SEGT Project Manager: Address: 703 E, CLINTON City: HOBS Phone #: (505) 397–0510 Fax #: (505) 393–4388 Project Name: $R_{FF} cl Saxod$ Project Name: $R_{FF} cl Saxod$ Project Location: $V M C \lambda$ For LAB I.D. LAB I.D. Hb 702-1 East5: cl_{F} Filest NOTE: Hubbly and Damages. Curdents Lith and the hold on the h	ARDINA
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Lynx Petroleum Lea County, New Mexico

Appendix D Certificate of Waste Manifest

manifest #__5450

ORIGINATING LOCATION:

UNIT L S3T20SR36E

SOUTH MONUMENT SURFACE WASTE FACILITY

LEASE OPERATOR:

LYNX PETROLEUM 3325 ENTERPRISE HOBBS, NM 88240 ATTN: MARC WISE

TRANSPORTER NAME & ADDRESS:

SAFETY & ENVIRONMENTAL SOLUTIONS, INC. 703 E. CLINTON, SUITE 103 HOBBS, NM 88240 SERGIO CONTRERAS, JR.

DESCRIPTION OF WASTE:

NON-HAZARDOUS HYDROCARBONS

FACILITY GONTACT: 10MC 12er SIGNATURE OF CONTACT

CELL NUMBER MATERIAL PLACED IN:

SIGNATURE OF TRANSPORTER (DRIVER):

SIGNATURE OF DRIVER

DISPOSAL SITE SOUTH MONUMENT SURFACE WASTE FACILITY P.O. BOX 418 HOBBS, NM 88241-0418 S25 T20S R36E N/2 NE/4

"As a condition of acceptance for disposal, I hereby certify that this waste is an exempt waste as defined by the Environmental Protection Agency (EPA). The waste are: generated from oil and gas exploration and production operations; exempt from Rescource Conservation and Recovery Act (RCRA) Subtitle C Regulations: and not mixed with non-exempt waste."

FACILITY REPRESENTATIVE

DATE

YDS.

DATE

B-1

SOUTH MONUMENT SURFACE WASTE FACILITY

LEASE OPERATOR:

LYNX PETROLEUM 3325 ENTERPRISE HOBBS, NM 88240 ATTN: MARC WISE **ORIGINATING LOCATION:** *UNIT L S3T20SR36E*

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DESCRIPTION OF WASTE:

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MANIFEST #

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FACIL/ITY CONTACT 11-0 SIGNATURE OF CONTA

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FACILITY REPRESENTATIVE

QUANTITY:

YDS.

DATE

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DATE

MANIFEST # 5453

SOUTH MONUMENT SURFACE WASTE FACILITY

LEASE OPERATOR:

LYNX PETROLEUM 3325 ENTERPRISE HOBBS, NM 88240 ATTN: MARC WISE **ORIGINATING LOCATION:** *UNIT L S3T20SR36E*

QUANTITY:

DATE

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TRANSPORTER NAME & ADDRESS:

SAFETY & ENVIRONMENTAL SOLUTIONS, INC. 703 E. CLINTON, SUITE 103 HOBBS, NM 88240 SERGIO CONTRERAS, JR.

DESCRIPTION OF WASTE:

NON-HAZARDOUS HYDROCARBONS

FAQILITY CONTACT: $\mathcal{I}\mathcal{I}\mathcal{D}\mathcal{U}$ sere Ac SIGNATURE OF CONTACT

CELL NUMBER MATERIAL PLACED IN:

SIGNATURE OF TRANSPORTER (DRIVER):

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DISPOSAL SITE SOUTH MONUMENT SURFACE WASTE FACILITY P.O. BOX 418 HOBBS, NM 88241-0418 S25 T20S R36E N/2 NE/4

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FACILITY REPRESENTATIVE

26/02

MANIFEST # 5454

SOUTH MONUMENT SURFACE WASTE FACILITY

LEASE OPERATOR:

LYNX PETROLEUM 3325 ENTERPRISE HOBBS, NM 88240 ATTN: MARC WISE

TRANSPORTER NAME & ADDRESS:

SAFETY & ENVIRONMENTAL SOLUTIONS, INC. 703 E. CLINTON, SUITE 103 HOBBS, NM 88240 SERGIO CONTRERAS, JR.

DESCRIPTION OF WASTE:

NON-HAZARDOUS HYDROCARBONS

FACILITY CONTACT: SIGNATURE OF CONTACT

CELL NUMBER MATERIAL PLACED IN:

SIGNATURE OF TRANSPORTER (DRIVER):

SIGNATURĚ OF DRIVER

DISPOSAL SITE SOUTH MONUMENT SURFACE WASTE FACILITY P.O. BOX 418 HOBBS, NM 88241-0418 S25 T20S R36E N/2 NE/4

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ORIGINATING LOCATION: *UNIT L S3T20SR36E*

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SOUTH MONUMENT SURFACE WASTE FACILITY

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ORIGINATING LOCATION: *UNIT L S3T20SR36E*

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FACILITY CONTACT: OMC RAA SIGNATURE OF CONTACT

CELL NUMBER MATERIAL PLACED IN:

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MANIFEST # 5455

SOUTH MONUMENT SURFACE WASTE FACILITY

LEASE OPERATOR:

LYNX PETROLEUM 3325 ENTERPRISE HOBBS, NM 88240 ATTN: MARC WISE **ORIGINATING LOCATION:** *UNIT L S3T20SR36E*

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MANIFEST # 5456

SOUTH MONUMENT SURFACE WASTE FACILITY

LEASE OPERATOR:

LYNX PETROLEUM 3325 ENTERPRISE HOBBS, NM 88240 ATTN: MARC WISE **ORIGINATING LOCATION:** *UNIT L S3T20SR36E*

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FACILITY CONTACT: DNO SIGNATURE OF CONTACT

CELL NUMBER MATERIAL PLACED IN:

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5/01/02

DATE

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Lynx Petroleum Lea County, New Mexico

Appendix E Site Photos



Bottom Hole - West End 5/2/02



South Wall - West End 5/2/02



North Wall - West End 5/2/02



East Wall - West End 5/2/02



South West Wall - West End 5/2/02



North West Wall - West End 5/2/02



Completed Location: Facing North 5/3/02



Completed Location: Facing West 5/3/02



Completed Location: Facing South 5/3/02



Completed Location: Facing East 5/3/02