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REPORTS

DATE: 2003

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Certified Mail: #7002 0510 0000 0307 7497

February 26, 2004

Mr. William C. Olson New Mexico Oil Conservation Division 1220 St. Francis Dr. Santa Fe, NM 87504 RECEIVED

MAR 03 2004

Oil Conservation Division Environmental Bureau

RE: 2003 Pit Project Annual Groundwater Report

Dear Mr. Olson:

In accordance with reporting requirements, El Paso Field Services (EPFS) has enclosed annual reports for the 24 remaining groundwater impacted sites that were identified during our pit closure project of 1994 / 1995.

EPFS has organized the 24 Annual Reports (Volumes 1, 2 and 3) by land type. Volume 1 contains Annual Reports for sites found on Federal land. Volume 2 contains Non Federal sites and Volume 3 contains sites on Navajo land. Of the 24 reports submitted, EPFS is requesting closure of one site located on Navajo lands (Jennepah #1). EPFS understands closure of groundwater sites on Navajo lands falls under jurisdiction of the Navajo Nation Environmental Protection Agency and original documents have been submitted to them for review. Other Navajo sites are included in the report for your information.

If you have any questions concerning the enclosed reports, please call me at (505) 599-2124.

Sincerely,

Scott T. Pope P.G. Senior Environmental Scientist

xc: Mr. Denny Foust, NMOCD, Aztec - w / enclosures; Certified Mail # 7002 0510 0000 0307 7473
Mr. Bill Liesse, BLM - w / enclosures (federal sites only), Certified Mail # 7002 0510 0000 0307 7466

El Paso Field Services 614 Reilly Ave. Farmington, NM 87401

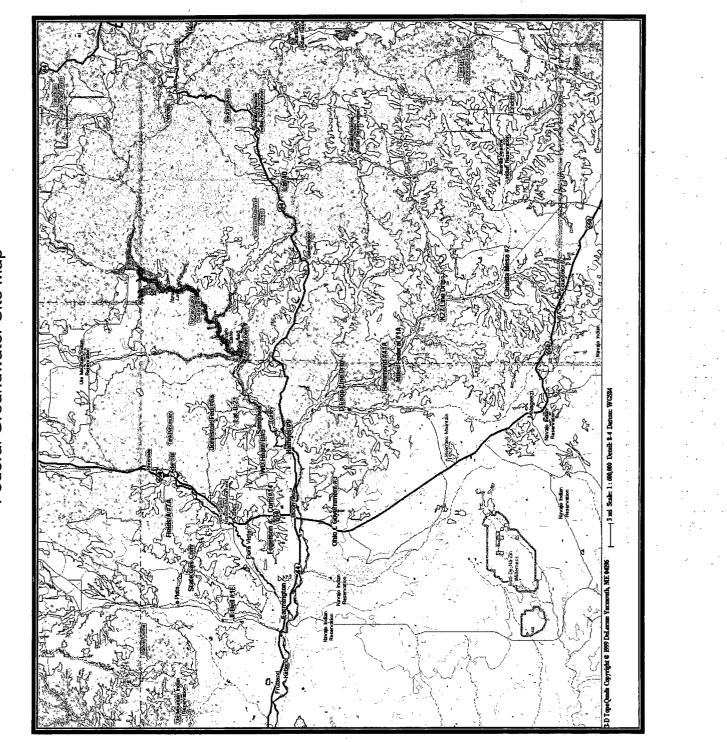
2003 ANNUAL GROUNDWATER REPORT FEDERAL SITES VOLUME I EL PASO FIELD SERVICES

TABLE OF CONTENTS

METER or LINE ID	SITE NAME	TOWNSHIP	RANGE	SECTION	UNIT
89961	Fields A#7A	32N	11W	34	E
89232	Johnston Fed #6A	31N	09W	35	F
94715	James F. Bell #1E	30N	13W	10	Р
89620	Sandoval GC A #1A	30N	09W	35	С
LD151	Lat 0-21 Line Drip	30N	09W	12	Ö
73220	Fogelson 4-1 Com. #14	29N	11W	4	P
97213	Hamner #9	29N	09W	20	Α
LD174	LAT L 40	28N	04W	13	Н
89894	Hammond #41A	27N	08W	25	0
94810	Miles Fed 1A	26N	07W	5	F
LD072	K27 LD072	25N	06W	4	Е
87640	Canada Mesa #2	24N	06W	24	







Federal Groundwater Site Map

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LIST OF ACRONYMS

В	benzene
btoc	below top of casing
Е	ethylbenzene
EPFS	El Paso Field Services
ft	foot/feet
GWEL	groundwater elevation
ID	identification
MW	monitoring well
PSH	phase-separated hydrocarbons
NMWQCC	New Mexico Water Quality Control Commission
Т	toluene
TOC	top of casing
NA	not applicable
NE	not established
NM	not measured
NMOCD	New Mexico Oil Conservation Division
NS	not sampled
ORC	oxygen-releasing compound
ppb	parts per billion
μg/L	micrograms per liter
х	total xylenes

2003 Annual Groundwater Report El Paso Field Services March 2003

EPFS GROUNDWATER SITES 2003 ANNUAL GROUNDWATER REPORT

Lat L-40 Meter Code: LD174

SITE DETAILS **Legal Description:** Town: 28N Range: 4W Sec: 13 Unit: Н **NMOCD Haz** 20 Land Type: Federal **Operator:** EPFS **Ranking:** PREVIOUS ACTIVITIES 3/95 Site Assessment: 2/95 **Excavation:** Soil Boring: 9/95 **Monitor Well:** 9/95 Geoprobe: NA Additional MWs: **Downgradient MWs: Replace MW:** NA **Quarterly Initiated:** NA Re-**Excavation: ORC Nutrient Injection:** NA NA **PSH Removal Initiated:** 1/98 Quarterly **Annual Initiated: Resumed:** NA NA

* An attempt was made to install additional monitoring wells at this site during July 2000. All efforts were met with refusal.

SUMMARY OF 2003 ACTIVITIES

- **MW-1:** Quarterly free-product recovery and water level monitoring were performed. This well was redeveloped in May 2003 in an attempt to enhance freeproduct recovery.
- Site-Wide Activities: Due to inclement weather, EPFS was unable to gain access to the site in January 2003.

SITE MAP

A site map (2003) is attached in Figure 1.

SUMMARY TABLES AND GRAPHS

- Historical analytical data and groundwater elevation data are presented graphically in Figure 2.
- Free-product recovery data from 2003 are summarized in Table 1, and historic data are presented graphically in Figure 3.
- Field documentation is presented in Attachment 1.

EPFS GROUNDWATER SITES 2003 ANNUAL GROUNDWATER REPORT

Lat L-40 Meter Code: LD174

GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

No subsurface activities were performed at this site during 2003.

DISPOSITION OF GENERATED WASTES

All phase-separated hydrocarbons were disposed of at the EPFS Kutz Separator located in Bloomfield, New Mexico.

ISOCONCENTRATION MAPS

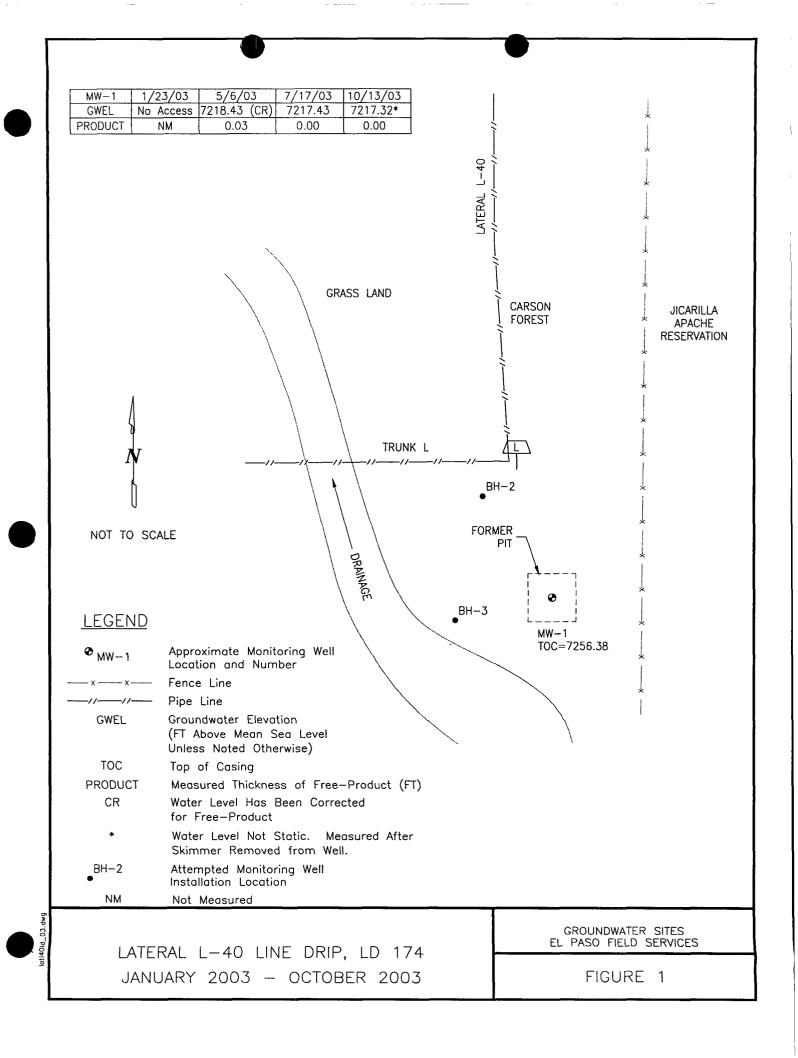
No isoconcentration maps were prepared for this site, however, the attached site map presents the water level data collected during 2003.

CONCLUSIONS

- Free-product recovery efforts at MW-1 resulted in removal of approximately 1.33 gallons of free-phase hydrocarbons during 2003 bringing the cumulative total recovered to date to approximately 25.5 gallons since 2000.
- Redevelopment of MW-1 in May did not appear to affect free-product recovery. However, the low recovery in subsequent events may have been due to declining free-product.
- The free-product recovery data indicate declining free-product thickness during 2002 and 2003.

RECOMMENDATIONS

- EPFS will continue free-product recovery and water level monitoring efforts on a quarterly basis at MW-1. EPFS will evaluate passive free-product removal methodologies (i.e., hand bailing, passive skimmers, or hydrocarbon-absorbent material socks) and frequencies for most efficient free-product removal from this well during 2004.
- Once free-product recovery efforts are completed at MW-1, this well will be sampled on an annual basis until sample results approach closure criteria. The well will then be scheduled for quarterly sampling until closure criteria are met.



SUMMARY OF FREE-PRODUCT REMOVAL DURING 2003 LAT L-40 (METER #LD174) **TABLE 1**

Site Name	Monitoring Removal Well Date	Removal Date	Depth to Product Depth to Water (feet btoc) (feet btoc)	Depth to Water (feet btoc)	rroauct Thickness (feet)	Volume of Product Removed (gallons)	Cummulative Volume of Product Removed (gallons)
Lat L-40	MW-1	1/23/03	MN	NM	MN	0.00	24.14
Lat L-40	I-WM	5/6/03	37.94	37.97	0.03	1.00	25.14
Lat L-40	I-WM	7/17/03	NA	38.95	00.0	0.20	25.34
Lat L-40	MW-1	10/13/03	NA	39.06	0.00	0.13	25.47

MW-1 contains a passive skimmer. Volume of product removed is from skimmer. Water levels and product thickness' measured following removal of passive skimmer. No access to site in January 2003 due to inclement weather/road conditions.



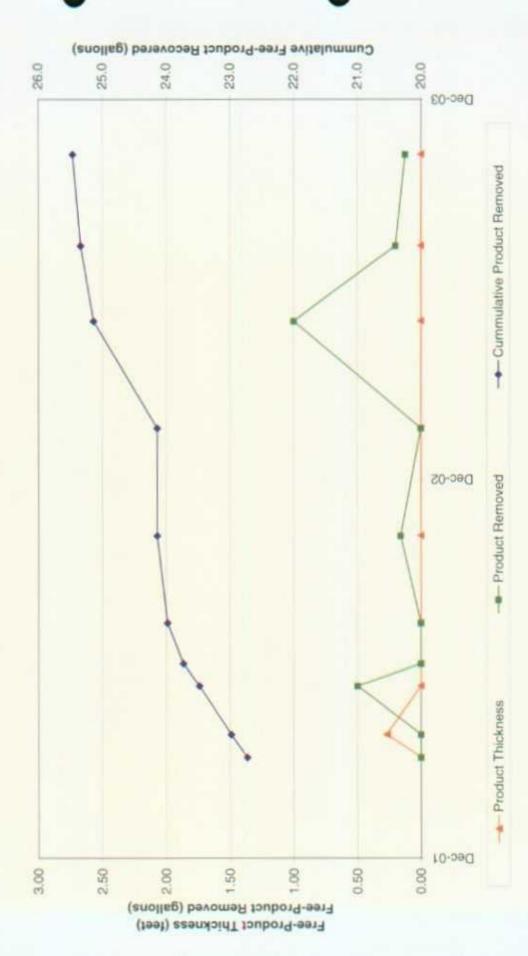
HISTORIC BTEX CONCENTRATIONS AND GROUNDWATER ELEVATIONS FIGURE 2 LAT L40 h-WM



2003 LAT L-40.xls,Lat L40 MW1







ATTACHMENT 1 FIELD DOCUMENTATION

PRODUCT RECOVERY

Martin J. Nee PO Box 3861 Farmington, NM 87499-3861 (505)334-2791 (505)320-9675cell

Project Name_	San Juan Basin Ground Water	Project No.	30001.0
Project Manager	MJN		
Client Company	MWH	Date	10/13/03
Site Name	Lat L 40	-	

Well	Time	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Volume Removed
MW-1 (passive skimmer)	1433	-	39.06	-	16 oz product
······					· · · · · · · · · · · · · · · · · · ·

Comments

Water level following removal of passive skimmer. No product measured following skimmer removal. Road to site was washed out and closed (J10). Had to backtrack and go in through the forest. Lost 1 hr.

	Martin	J.	Nee	Date:	October 13, 2003	
Signature:						

PRODUCT RECOVERY

Martin J. Nee PO Box 3861 Farmington, NM 87499-3861 (505)334-2791 (505)320-9675cell

Project Name_	San Juan Basin Ground Water	Project No.	30001.0
Project Manager	MJN	-	
Client Company	MWH	Date	July 17, 2003
Site Name	Lat L 40		

Well	Time	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Volume Removed
MW-1 (passive skimmer)	0813	-	38.95	-	32oz product
, <u>,</u>					

Comments

Water level following removal of passive skimmer. No product measured after skimmer was removed.

	Martin J	. Nee	Date:	July 17, 2003
Signature:				

		WELL	DEVEL	OPMENT	AND	SAMPLI	NG LOG	
Project No:	300	01.0	2 Proje	ct Name: 🚄	San	Jven B	Client	mwH
Location:	IsT1	.40 w	== ·	112-1		Devel		Sampling 🗌
								Weather <u>AC 405</u>
Depth to W	ater_ <u>3</u>	9 17	epth to Pro	duct 375	Produ	ct Thicknes:	003	Measuring Point TOCN
Depth to Water 39^{17} Depth to Product 39^{64} Product Thickness 003 Measuring Point 1000 Water Column Height 12^{58} Well Dia. 40								
Sampling Method: Submersible Pump Centrifugal Pump Peristaitic Pump COther C Bottom Valve Bailer X Double Check Valve Bailer Stainless-Steel Kemmerer C								
Criteria: 3 to 5 Casing Volumes of Water Removal D Sabilization of Indicator Parameters 2 Other								
Gal/ft x 1	ft of water	.	Gallons	Water Volum		Ounces		Gal/oz to be removed
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•			el-San	nple Time	······································	ВТЕ	x 🖸 v	OCs 🔲 Alkilinity 🗍
	•							
Total Phosph								
AS/MSD		BD		BD N	lame/Tim	e		TB

PRODUCT RECOVERY

Martin J. Nee PO Box 3861 Farmington, NM 87499-3861 (505)334-2791 (505)320-9675cell

Project Name_	San Juan Basin Ground Water	Project No.	30001.0
Project Manager	MJN		
Client Company	MWH	Date	5/6/03
Site Name	Lat L 40	- <u> </u>	

Well	Time	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Volume Removed
MW-1 (passive skimmer)	0738	37.94	37.97	0.03	1 gal product
bailed 11 gallons water	· · · · · · · · · · · · · · · · · · ·		43.11		
				· · · ·	

Comments

Recovered 1 gallon of product in passive skimmer. Depth to water and product thickness measured in well following skimmer removal. Skimmer in good condition. Will develop well and replace skimmer.

	Martin J. Nee	Date:	May 6, 2003	
Signature:				

Product Recovery and Well Observation Data

Project Name: San Juan Basin
Project Manager: M Nee
Client Company:MWH
Site Name: 2 + 40

Project No:	22003			
Date:	1/23/03			

Depth Depth⁻ Total Product Volume Well Thickness to to Well Time Comments Removed Product (ft) Water (ft) Depth (ft) (ft) o Access MW-1

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Signature

Date: