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**Oil Conservation Division** Environmental Bureau

El Paso Tennessee **Pipeline Company** 

San Juan Basin Pit Program Groundwater Sites Project

Final 2006 Annual Report Federal Sites (Volume 1)

March 2007



1801 California Street, Suite 2900 Denver, Colorado 80202





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### 2006 ANNUAL GROUNDWATER REPORT FEDERAL SITES VOLUME I

### EL PASO TENNESSEE PIPELINE COMPANY Oil Conservation Division TABLE OF CONTENTS MAR 06 2007 Oil Conservation Division Environmental Bureau

### TOWNSHIP **METER or LINE ID RANGE** |SECTION| UNIT SITE NAME 89961 Fields A#7A 32N 11W 34 Е 89232 Johnston Fed #6A 09W 35 F 31N 94715 10 Ρ James F. Bell #1E 30N 13W 89620 Sandoval GC A #1A 30N 09W 35 С LD151 Lat 0-21 Line Drip 30N 09W 12 0 Р 73220 Fogelson 4-1 Com. #14 29N 4 11W Hamner #9 97213 29N 09W 20 A LD174 LATL40 28N 04W 13 Н 25 89894 Hammond #41A 27N 08W 0 94810 07W 5 ٠F Miles Fed 1A 26N 4 E LD072 K27 LD072 06W 25N 87640 Canada Mesa #2 24N 06W 24 Ι 70194 Johnston Fed #4 31N 09W 33 Η







Federal Groundwater Site Map



### LIST OF ACRONYMS

В	benzene
btoc	below top of casing
E	ethylbenzene
EPTPC	El Paso Tennessee Pipeline Company
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
X	total xylenes

2006 Annual Groundwater Report El Paso Tennessee Pipeline Company March 2007

### EPTPC GROUNDWATER SITES 2006 ANNUAL GROUNDWATER REPORT

### Fields A#7A Meter Code: 89961

E

Legal Description:	Town:	32n	Range:	11w	Sec:	34	Unit:
NMOCD Haz Ranking:	40	Land Type:	Federal	Operator:	BP \ Amoco Company	Prod	luction
PREVIOUS ACTIVI	<u>TIES</u>						
Site Assessment:	8/94	Excava	ation:	9/94 (70cy)	Soil Boring:	:	7/95
Monitor Well:	7/95	Geopre	obe:	NA	Additional MWs:		12/95
Downgradient MWs:	12/95	Replac	e MW:	NA	Quarterly Initiated:		NA
ORC Nutrient Injection:	NA	Re-Exe	cavation:	NA	PSH Remov Initiated:	al	8/97
Annual Initiated:	4797	Quarte	erly Resumed:	NA			

### SUMMARY OF 2006 ACTIVITIES

SITE DETAILS

- **MW-1:** Based on the recommendations presented in the 2005 Annual Report, freeproduct recovery was discontinued from MW-1 in 2006. Semi-annual water level monitoring and groundwater sampling was conducted at this well in April and October 2006.
- **MW-2:** Semi-annual water level monitoring was performed in April and October 2006. This well was dry during both events.
- **MW-3:** Semi-annual water level monitoring (April and October) and was conducted at this well, and a groundwater sample was collected in April 2006.
- **MW-4:** Semi-annual water level monitoring was performed in April and October 2006. This well was dry during both events.
- Site-Wide Activities: No additional activities were performed at this site in 2006. After additional site investigation, it was decided the proposed monitoring well TMW-5 would not assist in assessing possible upgradient sources. In addition, this location would be difficult to access and it appeared unlikely that water would be encountered in the new well. Therefore, this well was not installed.

### EPTPC GROUNDWATER SITES 2006 ANNUAL GROUNDWATER REPORT

### Fields A#7A Meter Code: 89961

### SITE MAPS

Site maps (April and October) are attached in Figures 1 and 2.

### SUMMARY TABLES AND GRAPHS

- Analytical data from 2006 are included in Table 1, and historic groundwater data are presented graphically in Figures 3 through 6.
- Free-product recovery data for 2006 are included in Table 2, and historic data are presented graphically in Figures 7 and 8.
- Laboratory reports are presented in Attachment 1 (included on CD).
- Field documentation is presented in Attachment 2 (included on CD).

### GEOLOGIC LOGS AND WELL COMPLETION DIAGRAMS

No subsurface activities were performed at this site during 2006.

### **DISPOSITION OF GENERATED WASTES**

All purge water was taken to the El Paso Natural Gas Rio Vista Compressor Station. Recovered free-product is stored in a 55 gallon drum and periodically picked up by Mesa Oil for recycling.

### **ISOCONCENTRATION MAPS**

No isoconcentration maps were prepared for this site; however, the attached site maps present the water level data collected during 2006.

### CONCLUSIONS

- The groundwater flow direction at this site is to the southwest, based on historic water level measurements.
- BTEX concentrations in MW-1 were substantially lower than in 1997 (benzene 951  $\mu$ g/L), when the first phase of sampling ceased. However, benzene concentrations were 83.7  $\mu$ g/L and 254  $\mu$ g/L in April and October, respectively, which are above NMWQCC standards and similar to concentrations in 2004, when sampling was re-started. All other BTEX constituents were below standards.
- Per recommendations in the 2005 Annual Report, EPTPC attempted to sample MW-2 for parameters to assess natural attenuation potential at this site in April 2006, and semi-annual groundwater samples were scheduled to be collected from

### EPTPC GROUNDWATER SITES 2006 ANNUAL GROUNDWATER REPORT

### Fields A#7A Meter Code: 89961

MW-2 during 2006; however this well was dry during both sampling events. Overall, water levels at the site continue to decline.

- BTEX concentrations in MW-3 were substantially lower than in 1997 (benzene 951  $\mu$ g/L), when the first phase of sampling ceased. However, the benzene concentration was 46.4  $\mu$ g/L in April 2006, which is above the NMWQCC benzene standard and greater than the concentration in April 2005. Samples from this well have shown a high degree of fluctuation. All other BTEX constituents were below standards in 2006.
- No free-product was recovered from MW-4 in 2006. This well was dry during each event.
- Semi-annual groundwater samples were scheduled to be collected from MW-4 during 2006. This well was not sampled due to insufficient quantity of water. MW-4 has been dry since May 2002.

### **RECOMMENDATIONS**

- Assuming that free-product continues to be absent from MW-1, this well will be sampled semi-annually (April and October) until BTEX concentrations approach NMWQCC standards. MW-1 will then be scheduled for quarterly sampling until BTEX concentrations are below standards for four consecutive quarters, at which time this site will be submitted for closure.
- EPTPC will attempt semi-annual groundwater level measurements and annual groundwater sampling in April at MW-2, MW-3 and MW-4. Based on the April sampling results, groundwater sampling may be performed again in October 2007 at these wells, if possible.

TABLE 1	

SUMMARY OF BTEX COMPOUNDS IN GROUNDWATER SAMPLES FIELDS A#7A (METER #89961)

													·			
	Site Name		Sa	ample Date	Mo	nitoring Well	Benz	cene (ug/)	<b>[</b> ]	Toluene (ug/L)		Ethylbenzene (ug/L)	To	tal Xylenes (ug/L)	Depth to W (ug/L)	ater
***	Fields A#7A	なた	1. A. A. A.	8/9/95	2.	MW-1	· 4 m.	1950.	المراجعة المراجعة	1946	·	115	rds.	1361 🐇	22.50	
	Fields A#7A			1/3/96		I-WM		3150		5280		361		3460	23.28	
1.00	Fields A#7A	1944 - 1944 1944 - 1944 1944 - 1944	6. 1. 1. 1. 1. 1. 1. 1.	4//18/96	1987. 1987.	MW-1	ş	1300	1.2	2.1.40		119		1240	24.20	
	Fields A#7A			7/29/96		MW-1		503		804		28		363	25.07	
1	Fields A#7A			10/21/96	 	MW-1	5	843		1300	- , 8	26		422	25.45	
	Fields A#7A			1/30/97		MW-1		1300		2200		76.8		996	26.83	
	Fields A#7A			4/21/97	-	MW-1		951		1920		73		894	26.47	× .
	Fields A#7A			1/26/04		I-WM		121		54		15.8		216	31.03	
- -	Fields A#7A			4/21/04		MW-1	The second se	116		58.1		29.3		83.3	30.67	÷
	Fields A#7A			4/18/05		I-WM		108		29		14.2		274	30.19	
	Fields A#7A			10/22/05	 87	MW-1		180		69.2		6.3	× * .	154	30.74	
	Fields A#7A			4/25/06		MW-1		83.7		23.8		2.1		82.5	31.41	
1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 19	Fields A#7A			10/25/06	- 17 8/2 - 1	MW-1		254		-108	- 25- 1	- 4	ж.	-169 🔮	31.39	
	Fields A#7A			1/3/96		MW-2		28.8		1		297		1169	24.27	
e Africa Saugen	Fields A#7A	<i>6</i>	and in	4/18/96	4	MW-2	5.e	14.0	1.87	10	×.	2.64		1	25.53	
	Fields A#7A			7/29/96		MW-2		1		-		1		1	26.48	
120	Eields A#7A			10/21/96	· #	MW-2	 878 .	$1_{z_k}$	ni	Ţ.,	1. A	. 1	•	: 1	26.96	
	Fields A#7A			1/30/97		MW-2		1		1		1		Ι	27.73	
	Fields A#7A		ţ,	4/21/97	4	MW-2		1.,		1				1	27.77	
	Fields A#7A			4/13/01		MW-2		1		-		-		-	30.33	
  	Fields A#7A			4/18/05		MW-2		1		-1		-		2	30.98	
	Fields A#7A			1/3/96		MW-3		176		16.4		225		1550	24.88	
	Fields A#7A			4/18/96	. *	MW-3		129		-		212		463	25.75	
	Fields A#7A			7/29/96		MW-3	1	212		1		167		393	26.64	
چرچ ه	Fields A#7A	r .		10/21/96	я ,	MW-3		165		1		157	ыя · '	467	2716.00	en · ·
	Fields A#7A			1/30/97		MW-3		144		-		198		851	27.92	
2-4- 1-4-	Fields A#7A		N	4/21/97		MW-3		2070	s 51:	4340	jer i	332	ج	4730	28.00	
	Fields A#7A			4/13/01		MW-3		120		5.2		-		80	30.48	
	Fields A#7A	in . Act	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	4/18/05	1.2 8 .	MW-3	*	* *	19. 19. 19.	- F@3	And	- <b>1</b>	li, e	2	30.77	ميرهيم. مرجعي
	Fields A#7A			4/25/06		MW-3		46.4		5		5		10.	31.61	
angine N	Fields A#7A	-	1	10/25/06	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	MW-3	Kai.	NS	-\$	NS	14	S NS	.*	SN	31.90	í.

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E

# SUMMARY OF BTEX COMPOUNDS IN GROUNDWATER SAMPLES FIELDS A#7A (METER #89961)

		<u> </u>	1		1	
Depth to Water (ug/L)	25.69	26.42	28.65	28.84	28.85	<u>्र</u> , 28.68
Total Xylenes (ug/L)	2350	1880	967	1680	3250	2530
Ethylbenzene (ug/L)	206	235	106	149	280	. 💰 219 🦗 🖉
Toluene (ug/L)	1880	2460	2380	4520	7420	5170 👘
Benzene (ug/L)	2470	4760	1830	3320	4320	2410
<b>Monitoring Well</b>	MW-4	MW-4	MW-4	MW-4	MW-4	💦 MW-4
Sample Date	1/3/96	4/18/96	7/29/96	10/21/96	1/30/97	. 4/21/97
Site Name	Fields A#7A					

1 = Not Detected

TABLE 2

SUMMARY OF FREE-PRODUCT REMOVAL FIELDS A#7A (METER #89961)

 $\sim$ 

Site Name	Monitoring Well	14	kemoval Date	¢1	Depth to Product (feet bgs)	D	epth to Water (feet bgs)	Pro	duct Thicl (feet)	kness	Volume of	l Product R (gallons)	emoved (	Cumulati Rei	ive Volume of P moved (gallons)	oduct
			00101													
Fields A#/A	I-MW		1/3/02		30.69		30.40		0.00			0.00			12.30	
Fields A#7A	🗄 MW-1	× 8 ×	1/7/02	v,	30.58		30.59		0.01			0.00			12.30	
Fields A#7A	I-WM		1/23/02		30.40		30.41		0.00			0.01			12.31	
Fields A#7A	I-WM		1/3/1/02		30.94	~	30.95		0.01			0.00		*	12.31	59C."
Fields A#7A	MW-1		2/7/02		31.11		31.12		0.01			0.00			12.31	
Fields A#7A	MW-IV	100 m	2/14/02	4	31.17	1. S. C. S.	31.18	2.	0.01			0.00			12.31	
Fields A#7A	MW-1		2/20/02		31.14	ويستعمر وسيرو والمراوية والم	31.15		0.01			0.00			12.31	
Fields A#7A	MW-1	ť.,	3/21/02	-	30.78		30.80		0.02			0.00		1.5	12.31	
Fields A#7A	I-WM		3/28/02		NA		30.92		0.00			0.01			12.32	
Fields A#7A		1. S	4/4/02		NA 😵	1	130.64	3	0;00	and the second sec	A. 19. 1.	0.00	- 39 -		12.32 X	N.
Fields A#7A	MW-1		4/12/02		NA		31.45		0.00			0.00			12.32	
Fields A#7A	MW-1		4/19/02	a.".	NA		31.56		0.00			0.00			*12.32	
Fields A#7A	MW-1		4/25/02		NA '		31.54		0.00			0.00			12.32	
Fields A#7A	MW-1		5/3/02	>	NA		31.51		0.00		10	0.00			12.32	F
Fields A#7A	MW-1		5/10/02		NA		31.59		0.00		and the second secon	0.00			12.32	
Fields A#7A	- 55- MW-18	12.00	. 5/1=7/02	1.99°	NA Street	1. 26 C	-31.16		00.00	5%.0	د فر	0.00			12.32 two	-3
Fields A#7A	MW-1		5/24/02		NA		31.38	and a second	0.00			0.00			12.32	
Fields A#7A	MW-1		5/31/02		NA		31.23		0.00		· ·	0.00	and the second		12.32	F
Fields A#7A	MW-1		-6/6/02		NA		31.32		0.00			0.00			12.32	
Fields A#7A	- MW-1		6/14/02		NA		34.34		0.00		22	0.00		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	12.32	
Fields A#7A	MW-1		6/21/02		NA		31.67		0.00			0.00			12.32	
Fields A#7A	MW-1		6/27/02		NA	2	.31.81		0.00		A CONTRACT OF	0.00			12.32	
Fields A#7A	MW-1		7/2/02		NA		31.82		0.00			0.00			12.32	
Fields A#7A	: MW-I		7/11/02	× ,	NA		31.84		0.00			0.00			12.32	Ē
Fields A#7A	MW-1		7/18/02		NA		31.45		0.00			0.00			12.32	
Fields A#7A	.∛* MW-1	27	8/21/02	K	NA 🐔	- 4- 6 M	±.82.12 ∛	. * f f	0.00	4.01°		0:00	18 40 19 10 19 10	1	212.32	3
Fields A#7A	MW-I		10/1/02		NA		31.77		0.00			0.02			12.34	
Fields A#7A	MW-1	. W.	1/15/03	·	NA .		31.90		0:00		4	0.00			12.34	
Fields A#7A	I-WM		4/27/03		31.06		31.07		0.01			0.02			12.36	
Fields A#7A	MW-1	K	7/16/03		NA		31.295	1	0.00	· · ·		0.00	× .		12.36	N
Fields A#7A	MW-I		10/27/03		NA		30.97		0.00			0.00			12.36	
👘 Fields A#7A 🔬	MW-1		1/26/04	1. 	SNA 🐍	. W.	31.03	1	0.00	: . 	. 24	0.00	1.2	-33	्12.36 <sub>. కిల</sub>	1
Fields A#7A	MW-1		4/21/04		NA .		30.67		0.00			0.00			12.36	
Fields A#7A	I-MM	e.	7/27/04		NA		30.83		0.00	4		0.00			12.36	
Fields A#7A	I-WM		10/18/04		NA		30.97		0.00			0.00			12.36	
Fields A#7A	MW-1		1/25/05	چە: :	NA	, in	31.15		0.00		. , . ,	0.00			12.36	
Fields A#7A	MW-1		4/18/05		NA		30.19		0.00			0.00			12.36	
Fields A#7A		, * . . * .	1/3/02		31.61		NA .	.*	0.04	 	. +	0.01	Ŗ	,	1.36	·
Fields A#7A	MW-4		1/7/02		31.61		NA		0.04			0.00			1.36	
Fields A#7A	MW-4		1/23/02	i	31.62		NA		0.04	-		0.00			1.36	
Fields A#7A	MW-4		1/31/02		31.61		NA		0.04			0.00			1.36	
Fields A#7A	MW-4		2/7/02		31.60	·	NA **	4 m - 4 1 m -	0.05	st t		0;00	r.; ;	585	े हैं।1.36 📧	÷.,
Fields A#7A	MW-4		2/14/02		31.62		NA		0.03			0.00			1.36	
Fields A#7A	- MW-4	- v	2/20/02	,	31.62		NA		0.03			0.00			1.36	[

<b>TABLE 2</b>

# SUMMARY OF FREE-PRODUCT REMOVAL FIELDS A#7A (METER #89961)

ne of Product	allons)		-	-		,	1995 1997 1997 1997 1997 1997 1997 1997		, **				20 A				*				
nulative Volun	Removed (g	1.36	1.36	1.36	1.36	1.36	s. 21.36	1.36	1.36	1.36	1.36	1.36	* *1.36	1.36	-1.36	1.36	1.36	1.36	1.36	1.36	
moved Cun							1997 1997 1997												1 v 2 m		
lume of Product Re	(gallons)	0.00	0.00	0.00	0.00	0.00	-1 0·00	0.00	0.00	0.00	× 0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
iess Vol		-					1 8 4 1 1 8 4 1 1 8 4 1												ач ,		
<b>Product Thickn</b>	(feet)	0.00	0.00	0.00	0.00	0.00	1 E 0.00 -	0.00	0.00	0.00	÷ 0000	0.00	0.00	0.00	0.00	0.00	00.0	0.00	*: 000 ·	0.00	
L.							3 8.5						an de la Referencia						,		
Depth to Wate	(feet bgs)	Dry	Dry	Dry	Dry	Dry	Dry 🗧	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry.	Dry	
duct	_														2						
Depth to Pro	(feet bgs)	Dry	Dry	Dry	Dry	Dry	🕴 🖓 Drý 🔌	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	Dry	
ata	416		χ,				18 4 L						· · · · · · · · · · · · · · · · · · ·						42	5	
Pamoval I		3/21/02	4/2/02	5/17/02	5/24/02	5/31/02	6/6/02	6/14/02	7/1-8/02	10/1/02	1/15/03	7/16/03	10/27/0	1/26/04	4/21/04	7/27/04	10/18/0	1/25/05	4/18/05	10/22/0	
-			- 4 - 4		, .		and the second		-7						 		, in the second s				
fonitoring Wel		MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	- MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	MW-4	
Z			5 .				S,		1						• • • *				ж,		
Cita Name		Fields A#7A	Fields A#7A	Fields A#7A	Fields A#7A	Fields A#7A	Fields A#7A	Fields A#7A	Fields A#7A	Fields A#7A	Fields A#7A	Fields A#7Å	Fields A#7A	Fields A#7A	Fields A#7A						







BTEX Concentrations (ug/L)

FIGURE 4 HISTORIC BTEX CONCENTRATIONS AND GROUNDWATER ELEVATIONS FIELDS A #7A **MW-2** 



Note: A value of 1 indicated parameter not detected.

BTEX Concentrations (ug/L)



BTEX Concentrations (ug/L)

HISTORIC BTEX CONCENTRATIONS AND GROUNDWATER ELEVATIONS FIELDS A #7A FIGURE 6 **MW-4** 





FIGURE 7 HISTORIC FREE-PRODUCT RECOVERY FIELDS A #7A

00.00 2.00 1.40 1.80 1.60 1.20 1.00 0.80 09.0 0.40 0.20 Dec-02 **MW-4** Well Dry 1 ro-ced 0.10 0.06 0.00 0.09 0.08 0.05 0.03 0.02 0.07 0.04 0.01 Free-Product Removed (gallons) Free-Product Thickness (feet)

FIGURE 8 HISTORIC FREE-PRODUCT RECOVERY FIELDS A #7A

Cumulative Free-Product Recovered (gallons)

Cumulative Product Removed

----- Product Thickness