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REPORTS

DATE:

2003

3R170

Certified Mail: #7002 0510 0000 0307 7497

February 26, 2004

RECEIVED

MAR 03 2004

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

**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

cc: 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**

**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	P
89620	Sandoval GC A #1A	30N	09W	35	C
LD151	Lat 0-21 Line Drip	30N	09W	12	O
73220	Fogelson 4-1 Com. #14	29N	11W	4	P
97213	Hamner #9	29N	09W	20	A
LD174	LAT L 40	28N	04W	13	H
89894	Hammond #41A	27N	08W	25	O
94810	Miles Fed 1A	26N	07W	5	F
LD072	K27 LD072	25N	06W	4	E
87640	Canada Mesa #2	24N	06W	24	I



MWH
MONTGOMERY WATSON HARZA

LIST OF ACRONYMS

B	benzene
btc	below top of casing
E	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
T	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

**EPFS GROUNDWATER SITES
2003 ANNUAL GROUNDWATER REPORT**

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

SITE DETAILS

Legal Description:	Town: 32n	Range: 11w	Sec: 34	Unit: E
NMOCD Haz Ranking: 40	Land Type: Federal	Operator: Amoco Production Company		

PREVIOUS ACTIVITIES

Site Assessment: 8/94	Excavation: 9/94 (70cy)	Soil Boring: 7/95
Monitor Well: 7/95	Geoprobe: NA	Additional MWs: 12/95
Downgradient MWs: 12/95	Replace MW: NA	Quarterly Initiated: NA
ORC Nutrient Injection: NA	Re-Excavation: NA	PSH Removal Initiated: 8/97
Annual Initiated: 4/97	Quarterly Resumed: NA	

SUMMARY OF 2003 ACTIVITIES

MW-1: Quarterly monitoring was conducted at this well for free-product recovery. Free-product was detected and removed during the second (April) quarter. No free-product was detected in the first, third or fourth quarters.

MW-2: Quarterly water level monitoring was performed during 2003. An annual groundwater sample was scheduled to be collected in April 2003; however, there was insufficient water in the well to collect a sample.

MW-3: Quarterly water level monitoring was performed during 2003. An annual groundwater sample was scheduled to be collected in April 2003; however, there was insufficient water in the well to collect a sample.

MW-4: Quarterly monitoring was conducted at this well for free-product recovery. This well was dry during each event.

Site-Wide Activities: No other activities were performed at this site during 2003.

SITE MAPS

Site maps (January, April and July) are attached in Figures 1 through 3.

**EPFS GROUNDWATER SITES
2003 ANNUAL GROUNDWATER REPORT**

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

SUMMARY TABLES AND GRAPHS

- Historic analytical data and groundwater elevation data are presented graphically in Figures 4 through 7.
- Free-product recovery data for 2003 are summarized in Table 1, and historic data are presented graphically in Figure 8 and 9.
- Field documentation is presented in Attachment 1.

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 maps present the water level data collected during 2003.

CONCLUSIONS

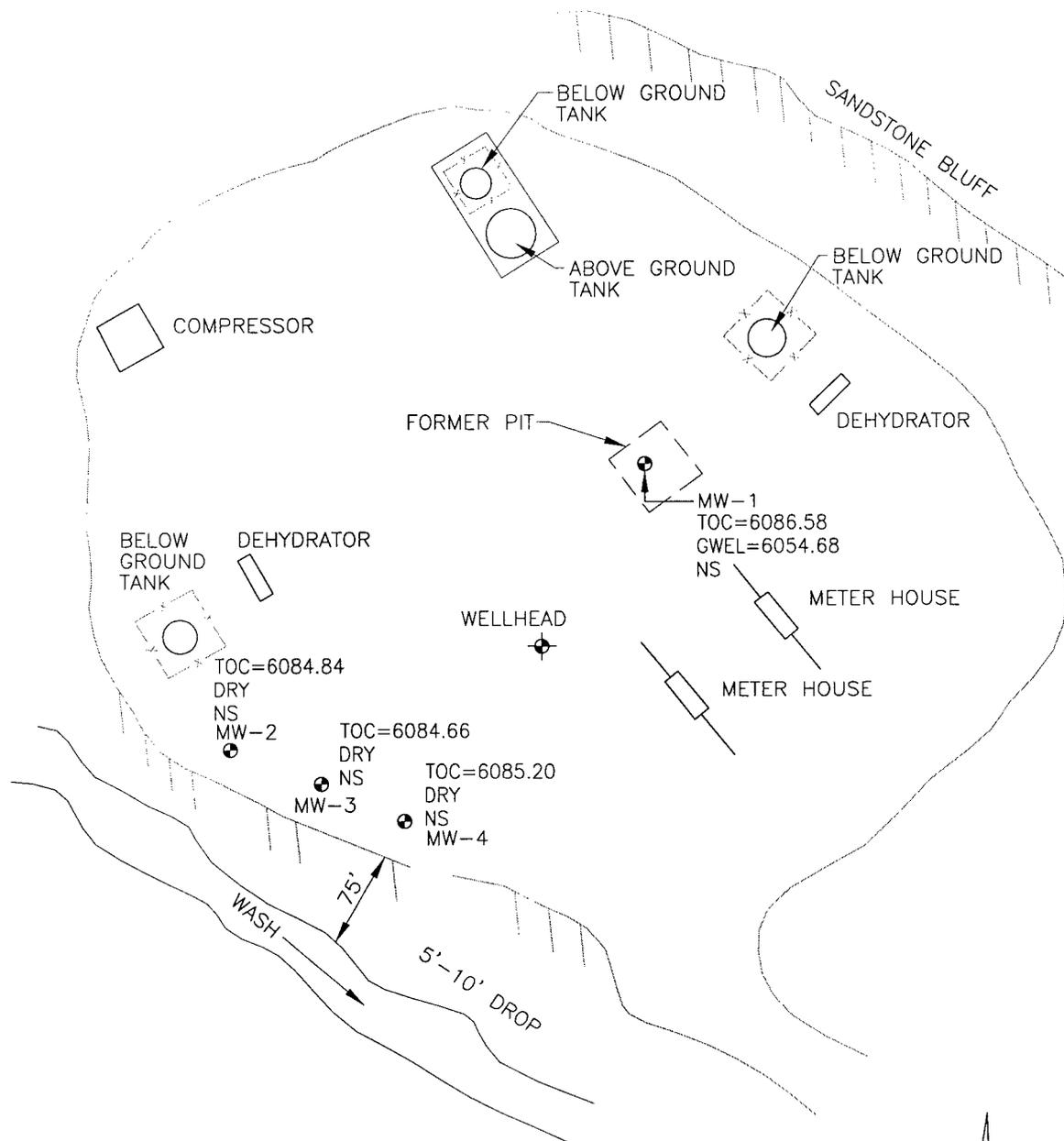
- The groundwater flow direction at this site to the southwest.
- Free-product recovery efforts at MW-1 resulted in removal of approximately 0.02 gallons of free-phase hydrocarbons bringing the cumulative total recovered to date to 12.36 gallons. Free-product was recovered from MW-1 in April 2003, only.
- No free-product was recovered from MW-4 in 2003. This well was dry during each event.
- Annual groundwater samples were scheduled to be collected from MW-2 and MW-3 during April 2003. Neither well was sampled due to inadequate water; these wells have been dry since May 2002.

EPFS GROUNDWATER SITES
2003 ANNUAL GROUNDWATER REPORT

Fields A#7A
Meter Code: 89961

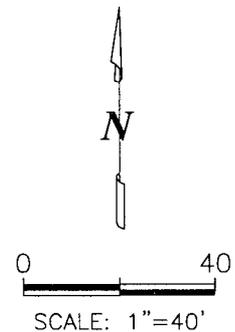
RECOMMENDATIONS

- EPFS will continue to collect quarterly groundwater measurements and perform free-product recovery activities, as necessary, at MW-1 and MW-4. 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 these wells during 2004.
- EPFS will redevelop MW-1 in April 2004.
- EPFS will continue to attempt quarterly groundwater level measurements and annual groundwater sampling at MW-2, MW-3 and MW-4.
- If free-product continues to be absent from MW-1, this well will be sampled annually until the BTEX concentrations approach cleanup standards. These wells will then be scheduled for quarterly sampling until cleanup criteria have been achieved.



LEGEND

- MW-1 Approximate Monitoring Well Location and Number
- GWEL Groundwater Elevation (FT Above Mean Sea Level Unless Noted Otherwise)
- NS Not Sampled
- TOC Top of Casing

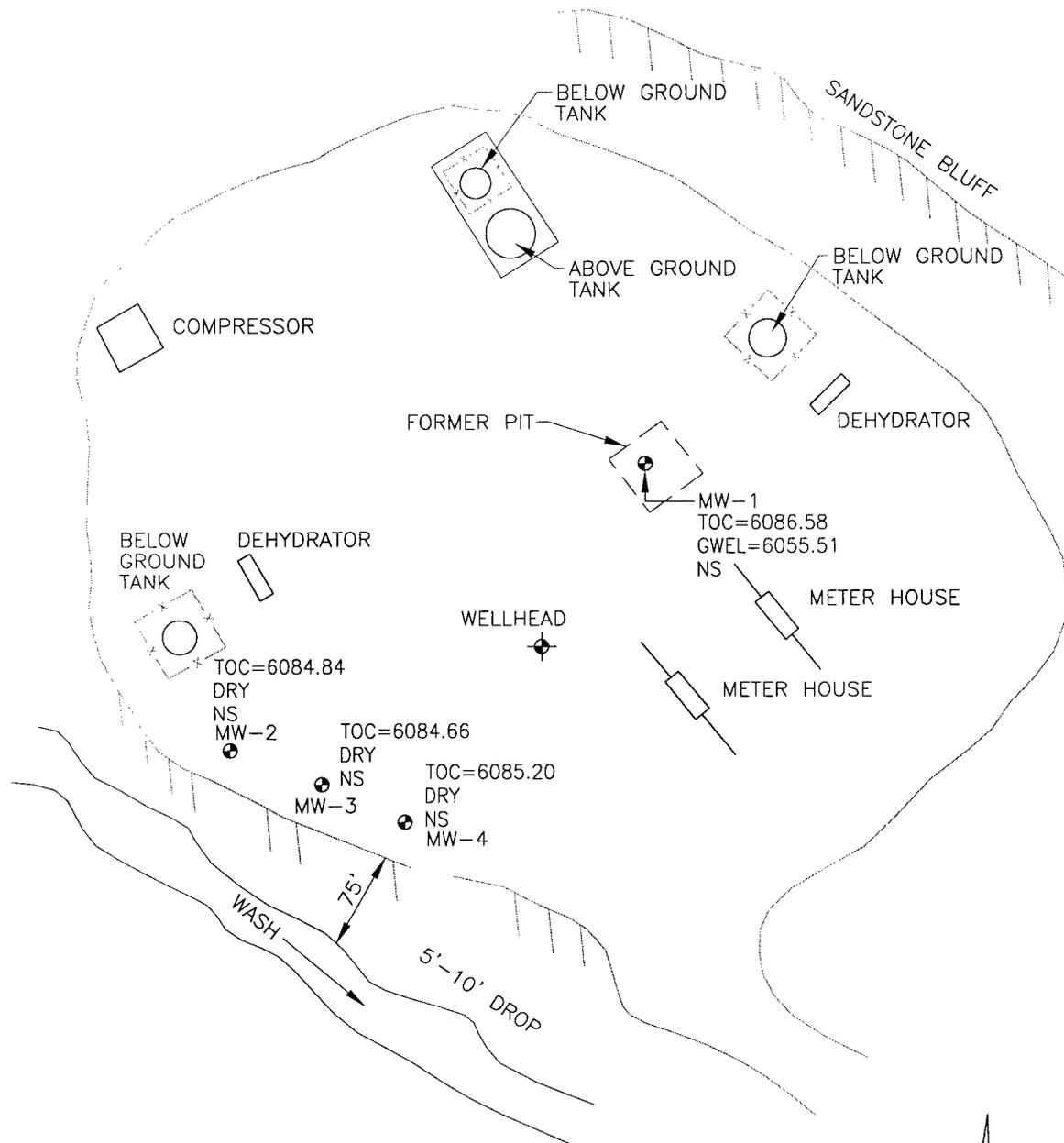


FIELDS A #7A, METER 89961/97546
 JANUARY 2003

GROUNDWATER SITES
 EL PASO FIELD SERVICES

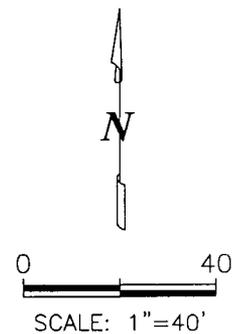
FIGURE 1

fieldsc7_03.dwg



LEGEND

- MW-1 Approximate Monitoring Well Location and Number
- GWEL Groundwater Elevation (FT Above Mean Sea Level Unless Noted Otherwise)
- NS Not Sampled
- TOC Top of Casing

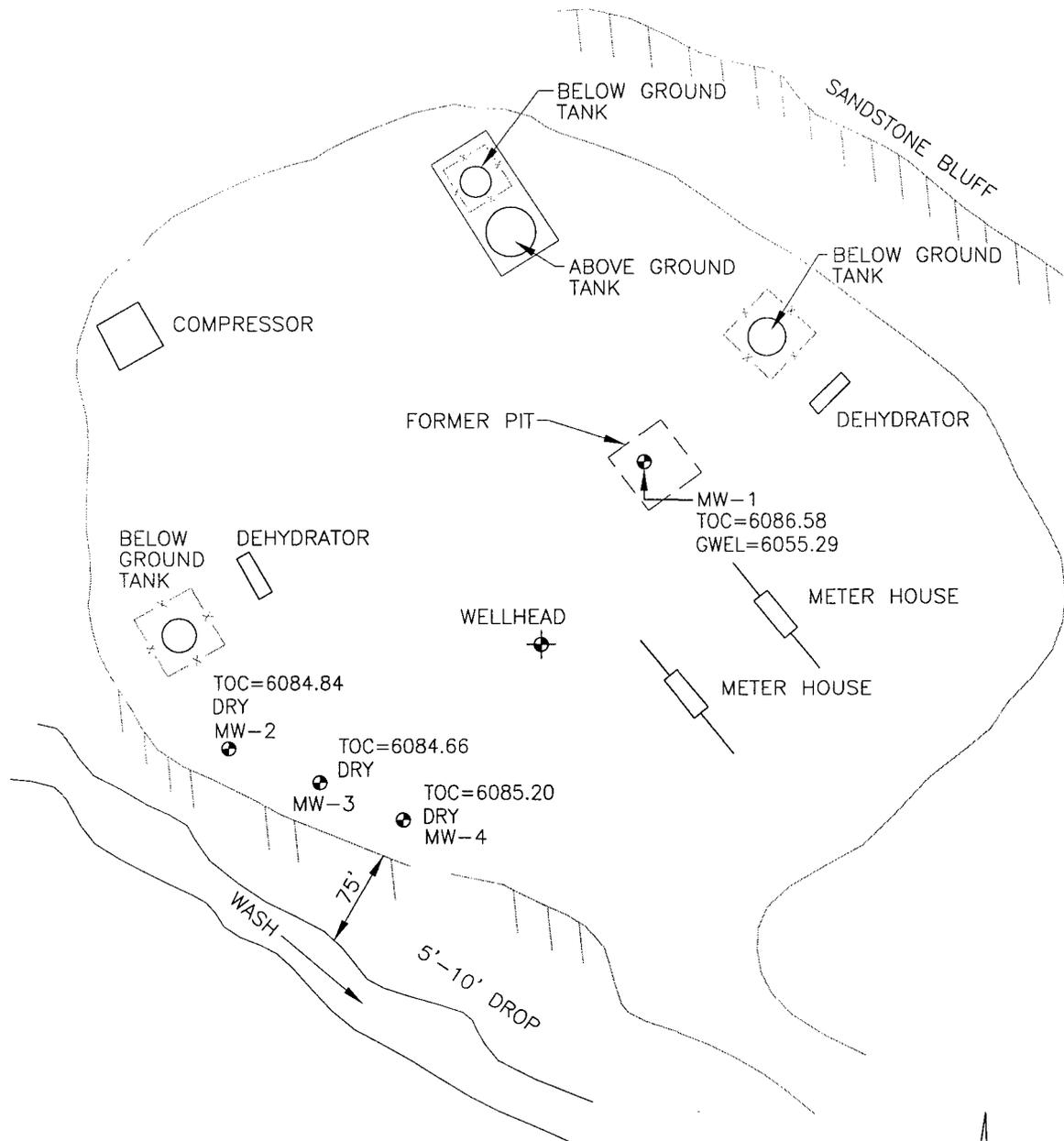


FIELDS A #7A, METER 89961/97546
 APRIL 2003

GROUNDWATER SITES
 EL PASO FIELD SERVICES

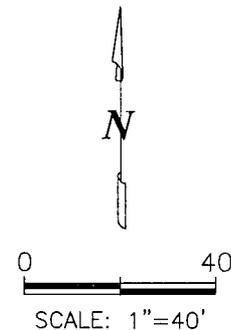
FIGURE 2

fieldsa7_03.dwg



LEGEND

- MW-1 Approximate Monitoring Well Location and Number
- GWEL Groundwater Elevation (FT Above Mean Sea Level Unless Noted Otherwise)
- NS Not Sampled
- TOC Top of Casing



FIELDS A #7A, METER 89961/97546
 JULY 2003

GROUNDWATER SITES
 EL PASO FIELD SERVICES

FIGURE 3

fie dsc7_03.dwg

TABLE 1
SUMMARY OF FREE-PRODUCT REMOVAL DURING 2003
FIELDS A#7A (METER #89961)

Site Name	Monitoring Well	Removal Date	Depth to Product (feet btoc)	Depth to Water (feet btoc)	Product Thickness (feet)	Volume of Product Removed (gallons)	Cummulative Volume of Product Removed (gallons)
Fields A#7A	MW-1	1/15/03	NA	31.90	0.00	0.00	12.34
Fields A#7A	MW-1	4/27/03	31.06	31.07	0.01	0.016	12.36
Fields A#7A	MW-1	7/16/03	NA	31.295	0.00	0.00	12.36
Fields A#7A	MW-1	10/27/03	NA	30.97	0.00	0.00	12.36
Fields A#7A	MW-4	1/15/03	dry	dry	0.00	0.00	1.36
Fields A#7A	MW-4	4/27/03	dry	dry	0.00	0.00	1.36
Fields A#7A	MW-4	7/16/03	dry	dry	0.00	0.00	1.36
Fields A#7A	MW-4	10/27/03	dry	dry	0.00	0.00	1.36

Passive skimmer removed from MW-1 in January 2003.

FIGURE 4
HISTORIC BTEX CONCENTRATIONS AND GROUNDWATER ELEVATIONS
FIELDS A #7A
MW-1

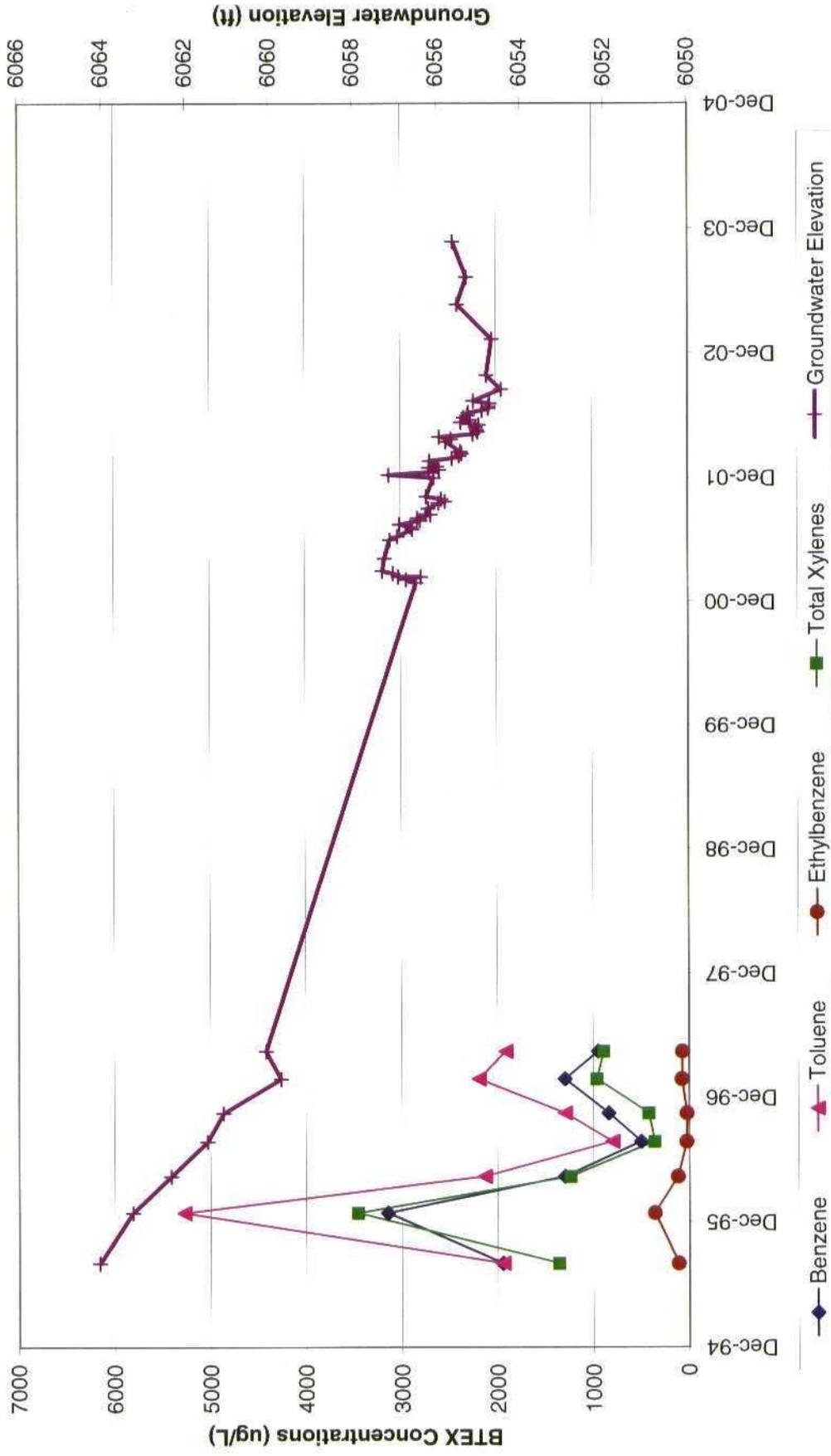


FIGURE 5
 HISTORIC BTEX CONCENTRATIONS AND GROUNDWATER ELEVATIONS
 FIELDS A #7A
 MW-2

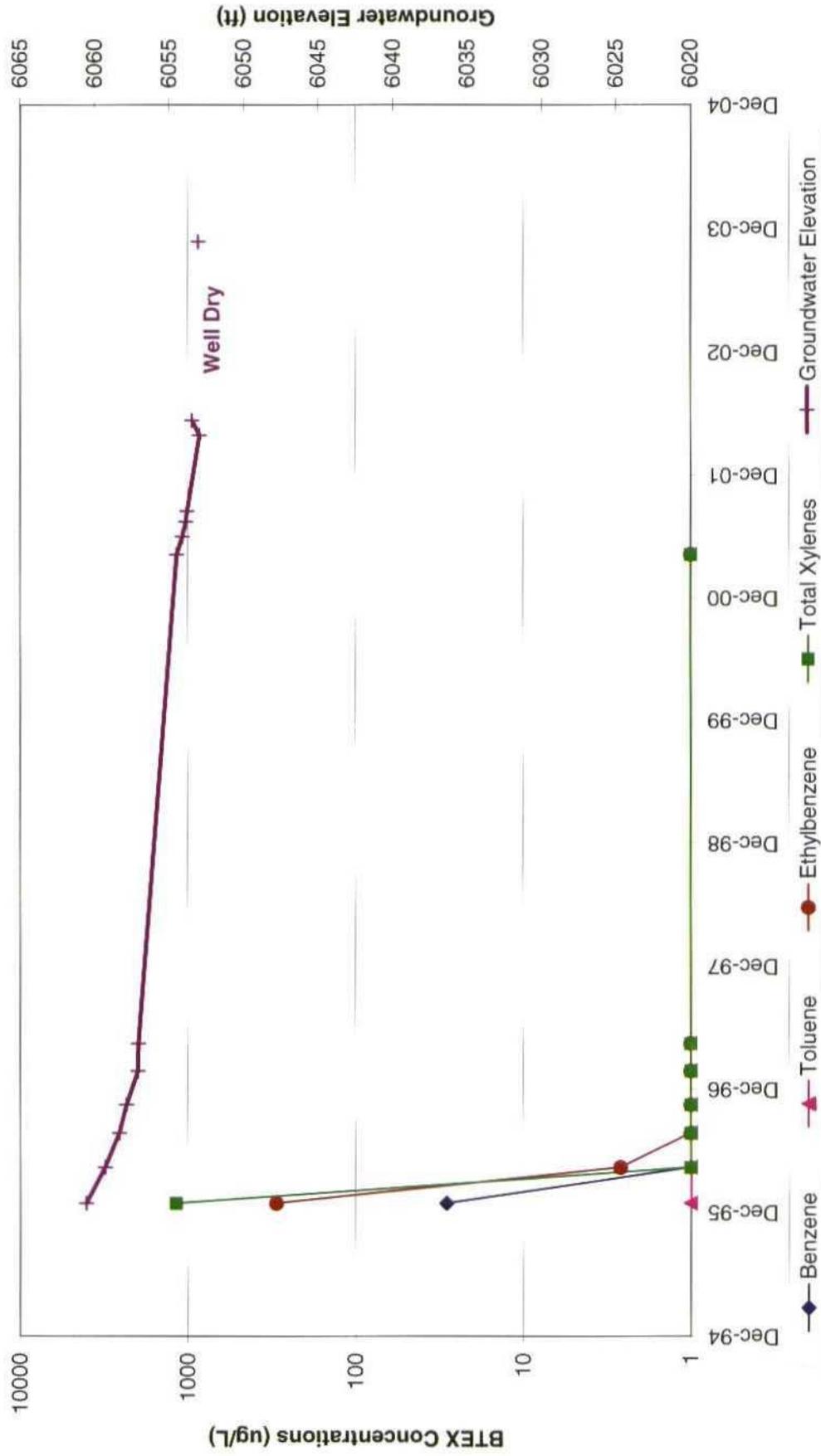


FIGURE 6
HISTORIC BTEX CONCENTRATIONS AND GROUNDWATER ELEVATIONS
FIELDS A #7A
MW-3

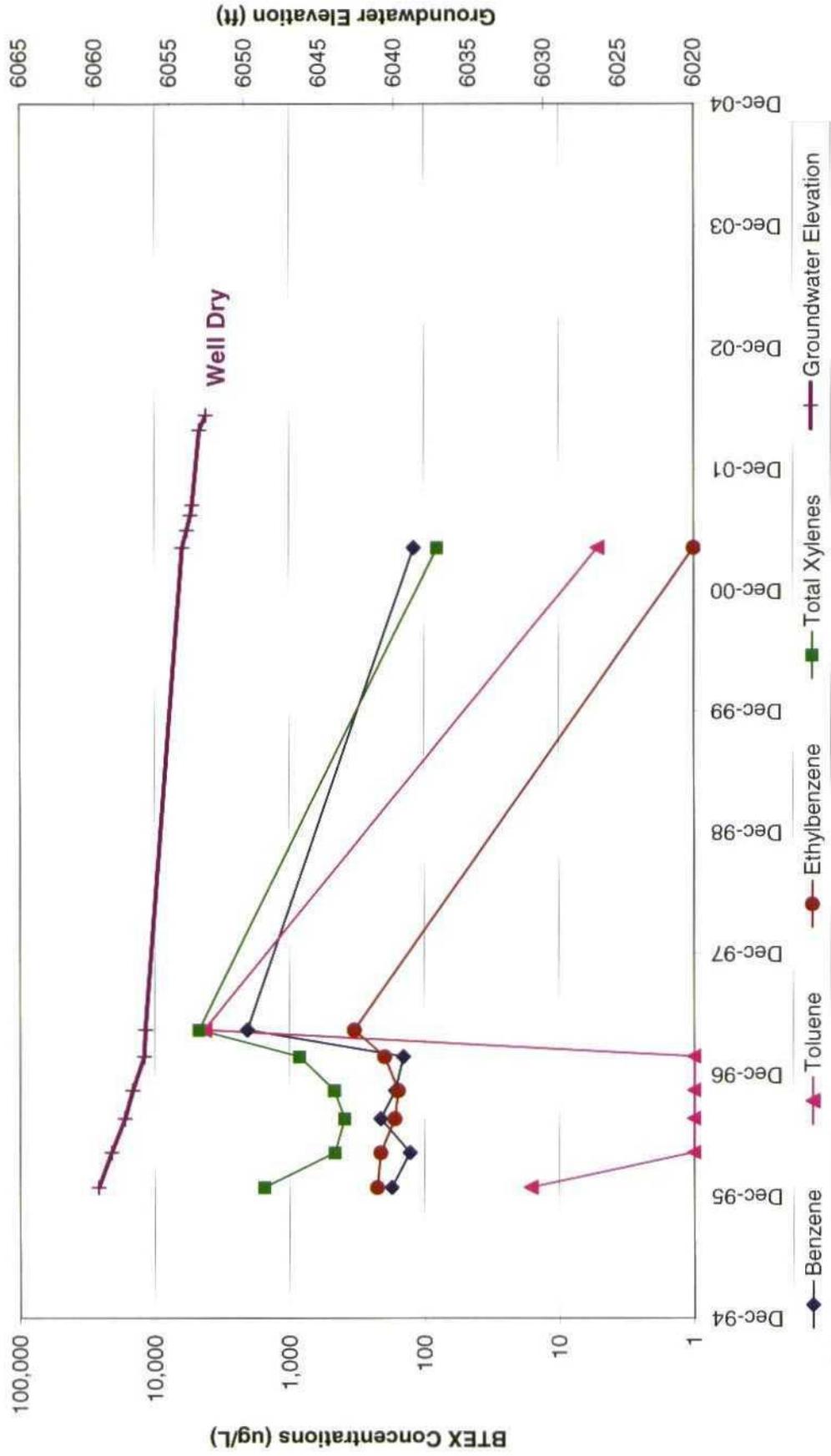


FIGURE 7
HISTORIC BTEX CONCENTRATIONS AND GROUNDWATER ELEVATIONS
FIELDS A #7A
MW-4

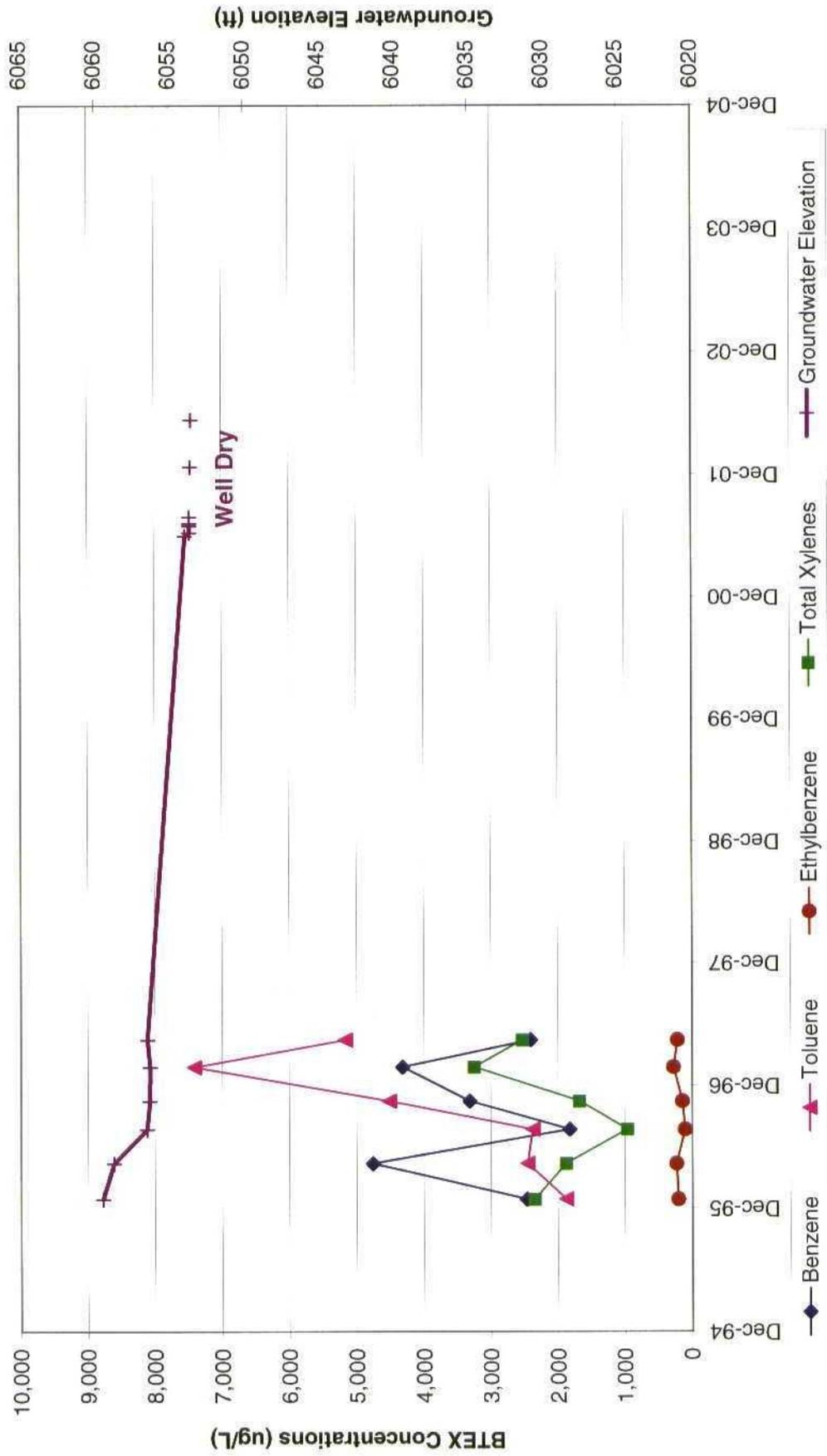


FIGURE 8
HISTORIC FREE-PRODUCT RECOVERY
FIELDS A #7A
MW-1

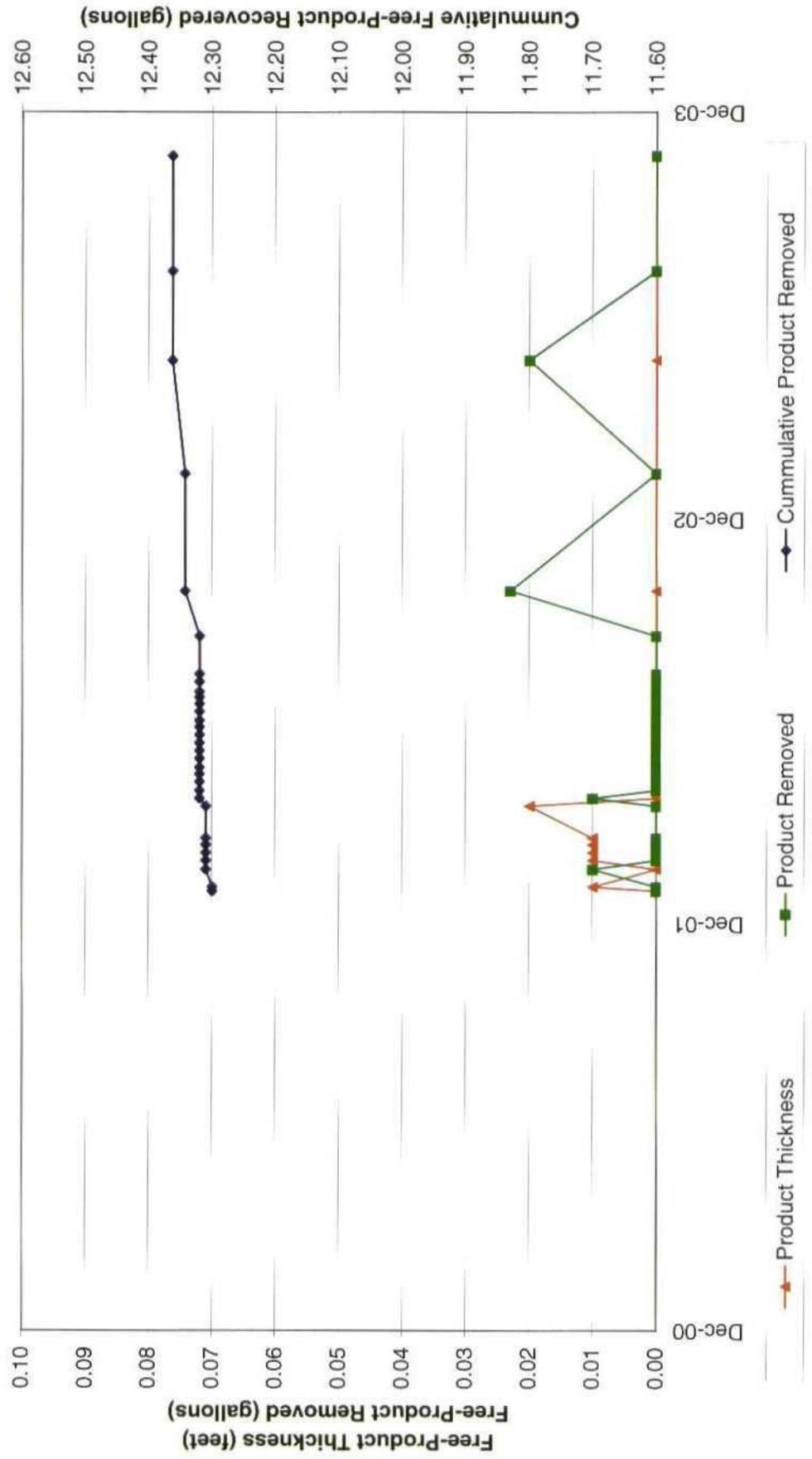
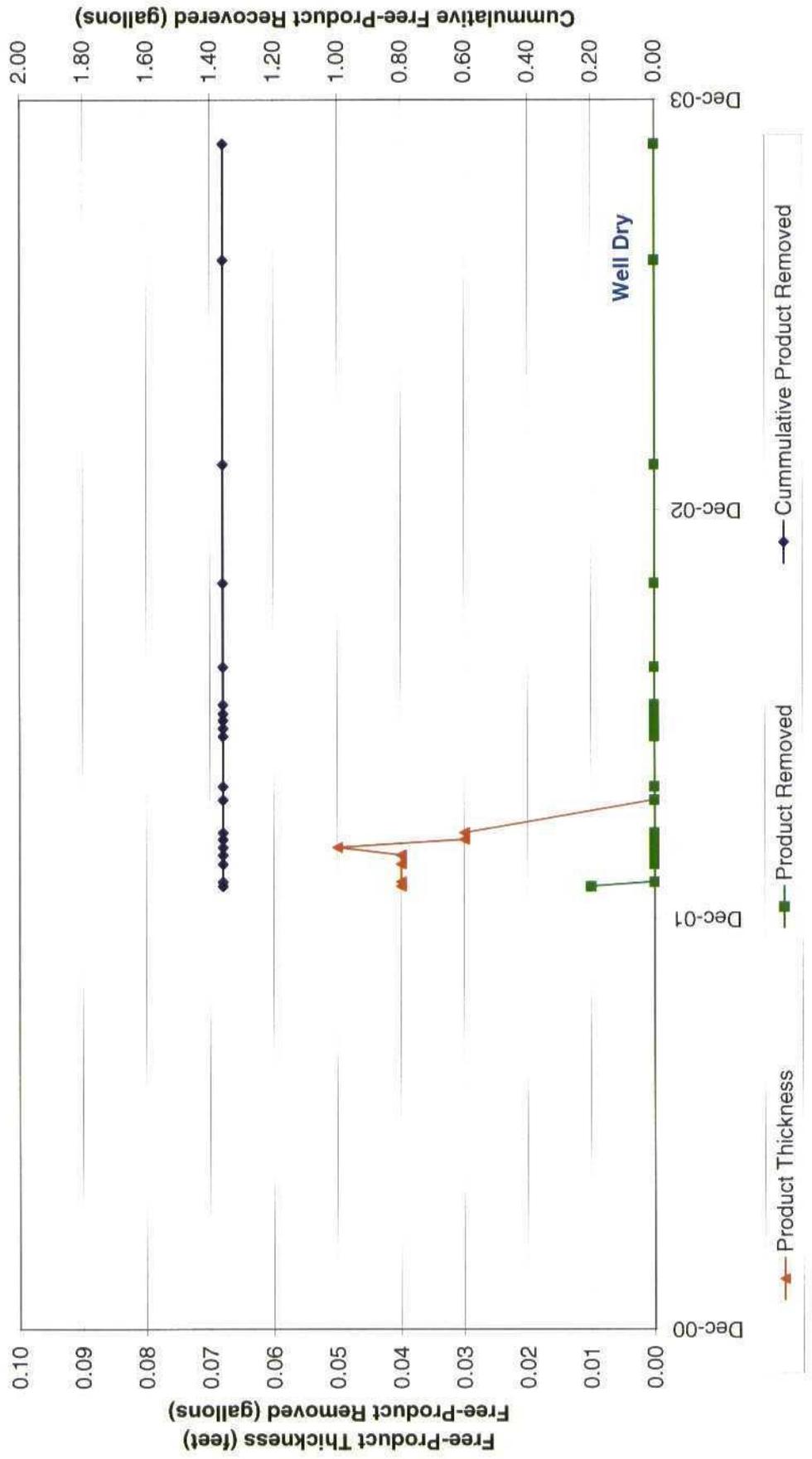


FIGURE 9
HISTORIC FREE-PRODUCT RECOVERY
FIELDS A #7A
MW-4



ATTACHMENT 1
FIELD DOCUMENTATION

PRODUCT RECOVERY/WATER LEVEL DATA

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

Project Name	<u>San Juan Basin Ground Water</u>	Project No.	<u>30001.0</u>
Project Manager	<u>MJN</u>		
Client Company	<u>MWH</u>	Date	<u>10-27-03</u>
Site Name	<u>Fields A#7</u>		

Well	Time	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Volume Removed
MW-1	1309		30.97	0	10 gallons water
MW-2		-	31.785		
MW-3		-	-		Dry
MW-4		-	-		Dry

Comments

MW-1: No product so I purged 10 gallons of water

Signature: Martin J. Nee Date: October 27, 2003

PRODUCT RECOVERY/WATER LEVEL DATA

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 7-16-03
Site Name Fields A#7

Well	Time	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Volume Removed
MW-1	0902		31.295	0	10 gallons water
MW-2		-	-		Dry
MW-3		-	-		Dry
MW-4		-	-		Dry

Comments

MW-1: No product so I purged 10 gallons of water

Signature: Martin J. Nee Date: July 16, 2003

PRODUCT RECOVERY/WATER LEVEL DATA

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 4-27-03
Site Name Fields A#7

Well	Time	Depth to Product (ft)	Depth to Water (ft)	Product Thickness (ft)	Volume Removed
MW-1	0900	31.06	31.07	.01	2 oz
MW-1 final			32.51		
MW-2		-	-		
MW-3		-	-		
MW-4		-	-		

Comments

MW-1: Recovered approximately 2.5 gallons of water. MW-2, 3, & 4 were found to be dry.

Signature: Martin J. Nee Date: April 27, 2003

Product Recovery and Well Observation Data

Project Name: San Juan River Basin
 Project Manager: Delbert Belin
 Client Company: MWH
 Site Name: Fields A #7A

Project No: 220013
 Date: 1/15/03

Well	Time	Depth to Water (ft)	Depth to Product (ft)	Total Well Depth (ft)	Product Thickness (ft)	Volume Removed	Comments
MW-2	1430	—	—	31.93	—	—	NO water or product
MW-3	1440	—	—	31.96	—	—	Dry well
MW-4	1445	—	—	31.57	—	—	Dry well
MW-1	1450	31.90	—	38.92	—	—	—

COMMENTS:

MW-2 - NO product or water well is dry
MW-3 = Dry well
MW-4 - Dry well
MW-1 - NO product or ~~water~~^{DB} pulled skimmer and dry. Bailed 2 gallons of water, no indication of product, except very strong odor. Take skimmer back to office for replacement.

Signature: Delbert Belin

Date: 1/16/03