3R – 317

2008 AGWMR

04 / 05 / 2009

Site Summary Report

Site Name: Florance 47X **Reporting Period: 2008**

Location: Unit G, Sec 5, Twn 30N, Rng 8W
Canyon: Crow
Operator: Amoco

Vulnerable Class: original
OCD Ranking: 10
Lead Agency: NMOCD

Status Narrative

Forty-five quarters of water quality data have been collected from the five monitoring wells located at this site. Monitoring well MW-3 remains as the only well with accumulations of LNAPL. To date, a total of approximately 32-liters of LNAPL has been recovered from this well. Monitoring well MW-2 was sampled for the first time in over a year due to the presence of adequate water. This well had been dry during all of 2007. In down and cross-gradient well MW-4, only xylene was detected during the monitoring period.

Potentiometric surface maps (Figure 2) depict ground water flow to the south-southeast at an average hydraulic gradient of 0.02. No significant seasonal variations in flow direction or gradient are evident. The enclosed hydrograph illustrates a stable ground water elevation pattern over the past few years.

While the monitoring trends appear positive, the presence of LNAPL in MW-3 may indicate contribution from another source. As has been noted in previous submittals, there was another pit operated by the producer within the immediate vicinity of this monitoring well and on a lower terrace from the dehy pit.

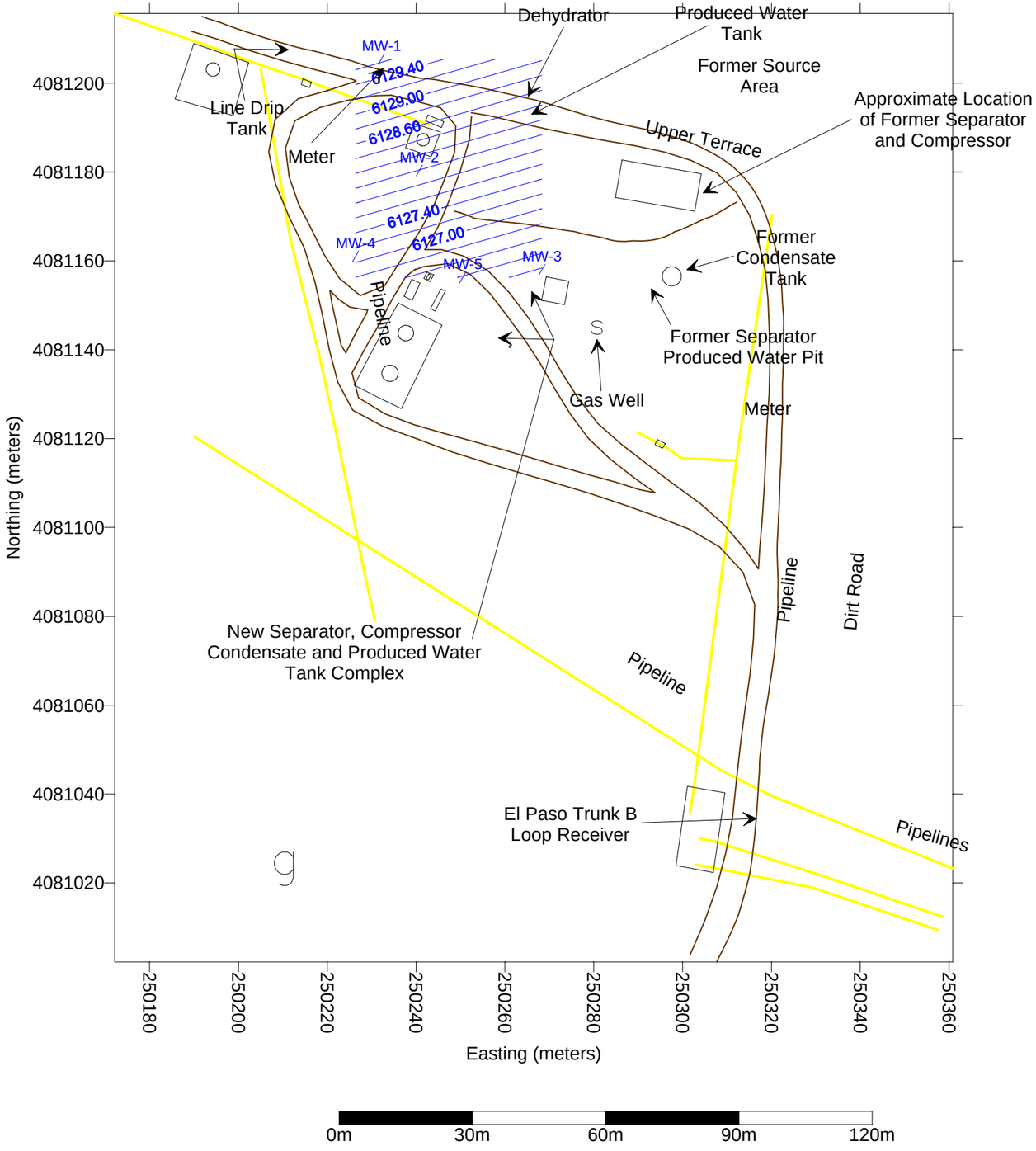


Figure 2
Potentiometric Surface Map
Florance 47X
(June 2008)

LEGEND

MW-2 — Monitoring Well

5585.20 — Ground Water Elevation (ft. AMSL)

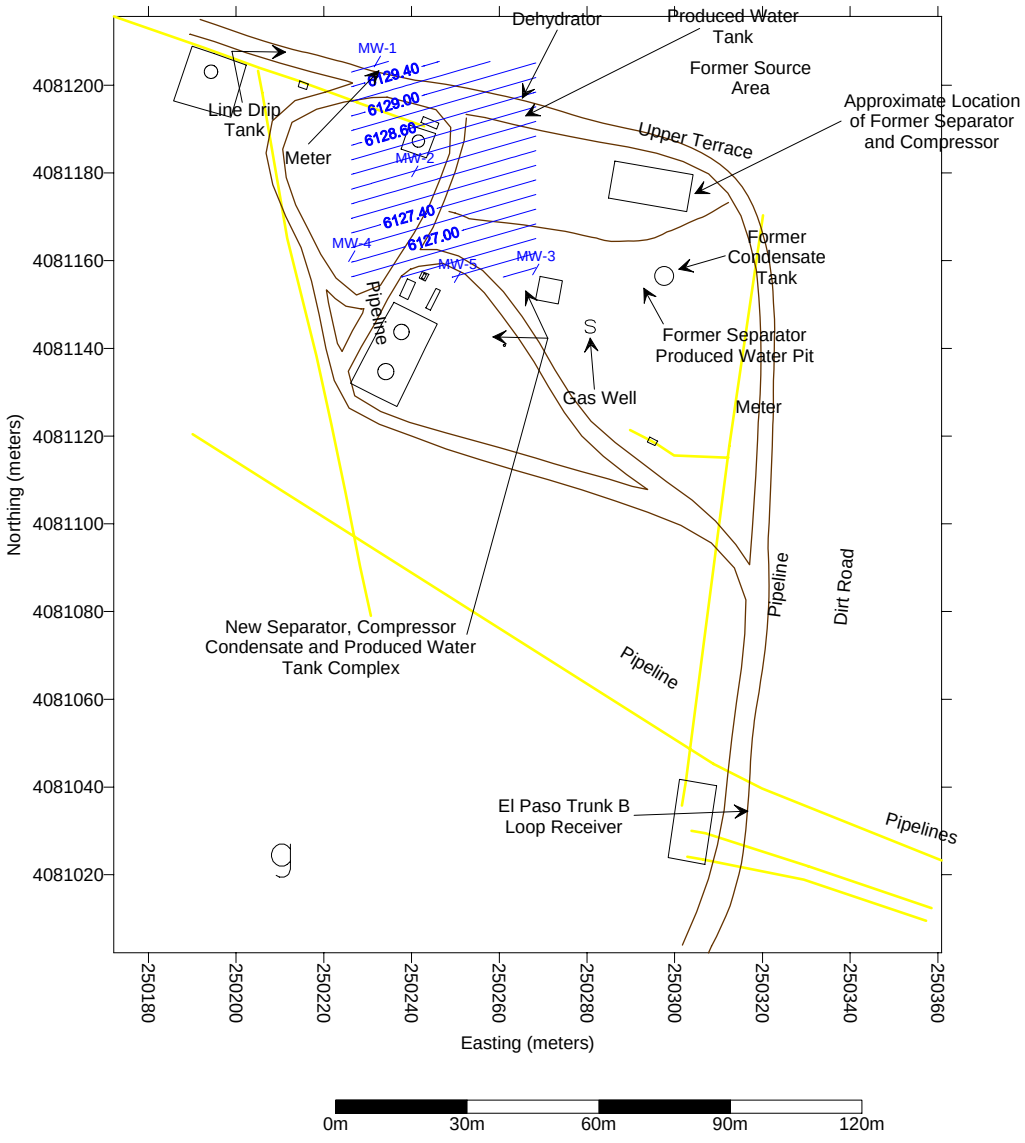
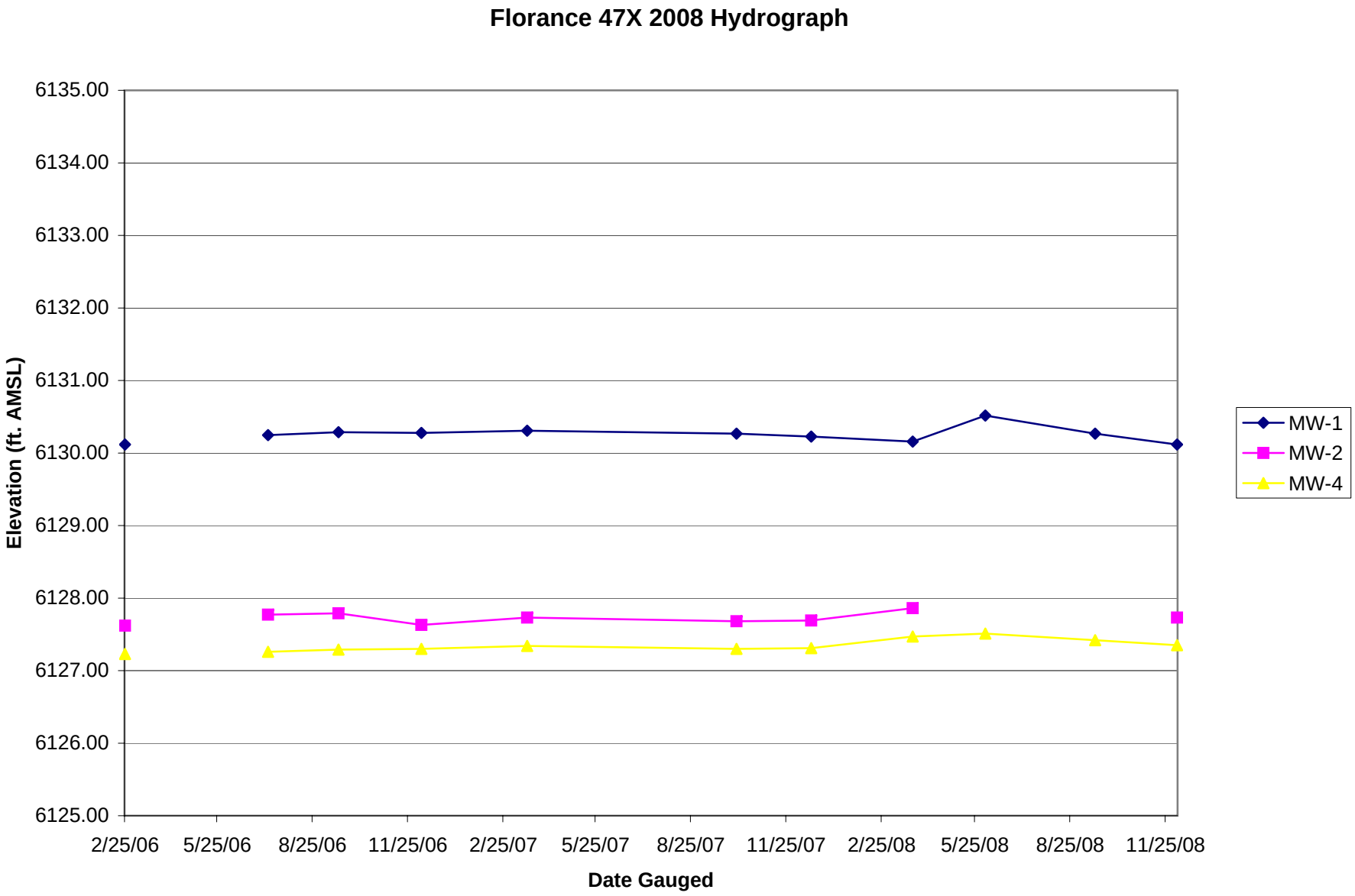


Figure 2
Potentiometric Surface Map
Florance 47X
(DEC 2008)

LEGEND

MW-2 — Monitoring Well

5585.20 — Ground Water Elevation (ft. AMSL)


Florance 47X 2008 Hydrograph
6135.00
6134.00
6133.00
6132.00
6131.00
6130.00
6129.00
6128.00
6127.00
6126.00
6125.00
Elevation (ft. AMSL)
2/25/06
5/25/06
8/25/06
11/25/06
2/25/07
5/25/07
8/25/07
11/25/07
2/25/08
5/25/08
8/25/08
11/25/08
Date Gauged
MW-1
MW-2
MW-4

Analytical Data Summary

Site Name:
Florance M 47X

Reporting Period:
1/1/2006 To 12/31/2008

Well ID	Sample Date	Sample ID	Benzene ug/l	Toluene ug/l	Ethylbenzene ug/l	Xylene (Total) ug/l
MW-1						
	2/25/2006	141925FEB06	ND	ND	ND	ND
	7/13/2006	173013JUL06	2.2	<1.0	<1.0	<3.0
	9/19/2006	172519SEP06	4.9	<1.0	<1.0	<3.0
	12/8/2006	141208DEC06	<1.0	<1.0	<1.0	<3.0
	3/20/2007	153820MAR07	1.1	<1.0	<1.0	<3.0
	10/8/2007	141708OCT07	<1.0	<1.0	<1.0	<3.0
	12/19/2007	170319DEC07	<1.0	<1.0	<1.0	<3.0
	3/26/2008	172626MAR08	<1.0	<1.0	<1.0	<3.0
	6/4/2008	171304JUN08	2.9	<1.0	<1.0	4.8
	9/18/2008	141019SEP08	<1.0	<1.0	<1.0	<3.0
	12/6/2008	104306DEC08	<1.0	<1.0	<1.0	<3.0
MW-2						
	2/25/2006	152425FEB06	10600	109	442	5070
	7/13/2006	184313JUL06	16900	<10.0	753	4370
	12/8/2006	143208DEC06	8090	<50.0	343	4340
	12/6/2008	110406DEC08	6570	<25.0	660	3700
	12/6/2008	110206DEC08	5820	<25.0	442	3850
MW-4						
	2/25/2006	143525FEB06	2.3	4.4	ND	19.2
	7/13/2006	175213JUL06	2.9	<1.0	1.0	9.9
	9/19/2006	174319SEP06	1.2	<1.0	<1.0	9.6
	12/8/2006	144908DEC06	<1.0	<1.0	<1.0	5.4
	3/20/2007	160720MAR07	<1.0	<1.0	<1.0	6.7
	10/8/2007	144808OCT07	1.0	<1.0	<1.0	12.8
	12/19/2007	172319DEC07	1.3	<1.0	<1.0	10.0
	3/26/2008	174926MAR08	1.2	<1.0	<1.0	17.2
	6/4/2008	172804JUN08	<1.0	<1.0	<1.0	10.3
	9/18/2008	142419SEP08	<1.0	<1.0	<1.0	11.5
	12/6/2008	112006DEC08	<1.0	<1.0	<1.0	4.8
MW-5						
	2/25/2006	150425FEB06	24.4	ND	3.9	16.6
	9/19/2006	182519SEP06	135	19.2	17.0	409
	10/8/2007	151208OCT07	269	111	26.0	611