3R – 339

2008 AGWMR

04 / 05 / 2009

Site Summary Report

Site Name: Pritchard 2A **Reporting Period: 2008**

Location: Unit J, Sec 6, Twn 30N, Rng 8W
Canyon: Pump
Operator: Williams

Vulnerable Class: expanded
OCD Ranking: 40
Lead Agency: NMOCD

Status Narrative

The six monitoring wells at this site have been sampled for thirty-seven quarters. Monitoring wells MW-2 and MW-4 no longer have observable LNAPL accumulations. In the fourth quarter, benzene in upgradient well MW-1 declined to a level about half of what was measured the previous five quarters. BTEX concentrations in cross-gradient wells MW-3 and MW-5 remain relatively stable but in excess of NMWQCC standards. Concentrations of total BTEX in downgradient well MW-6 showed a significant decline in the fourth quarter compared to levels previously measured.

Potentiometric surface maps (Figure 2) depict a southeast by south ground water flow direction at an average hydraulic gradient of 0.01. No significant seasonal variations in ground water flow direction or gradient are evident. The enclosed hydrograph shows an overall decrease in the water-table elevation over the past few years.

Upgradient contaminant remains troubling and is unlikely related to the former dehydrator pit. The presence of numerous pipelines in the area around MW-1 may warrant investigation by the pipeline operators. While conditions are favorable for monitored natural attenuation, clean closure will not likely be achievable until after upgradient sources are identified and addressed.

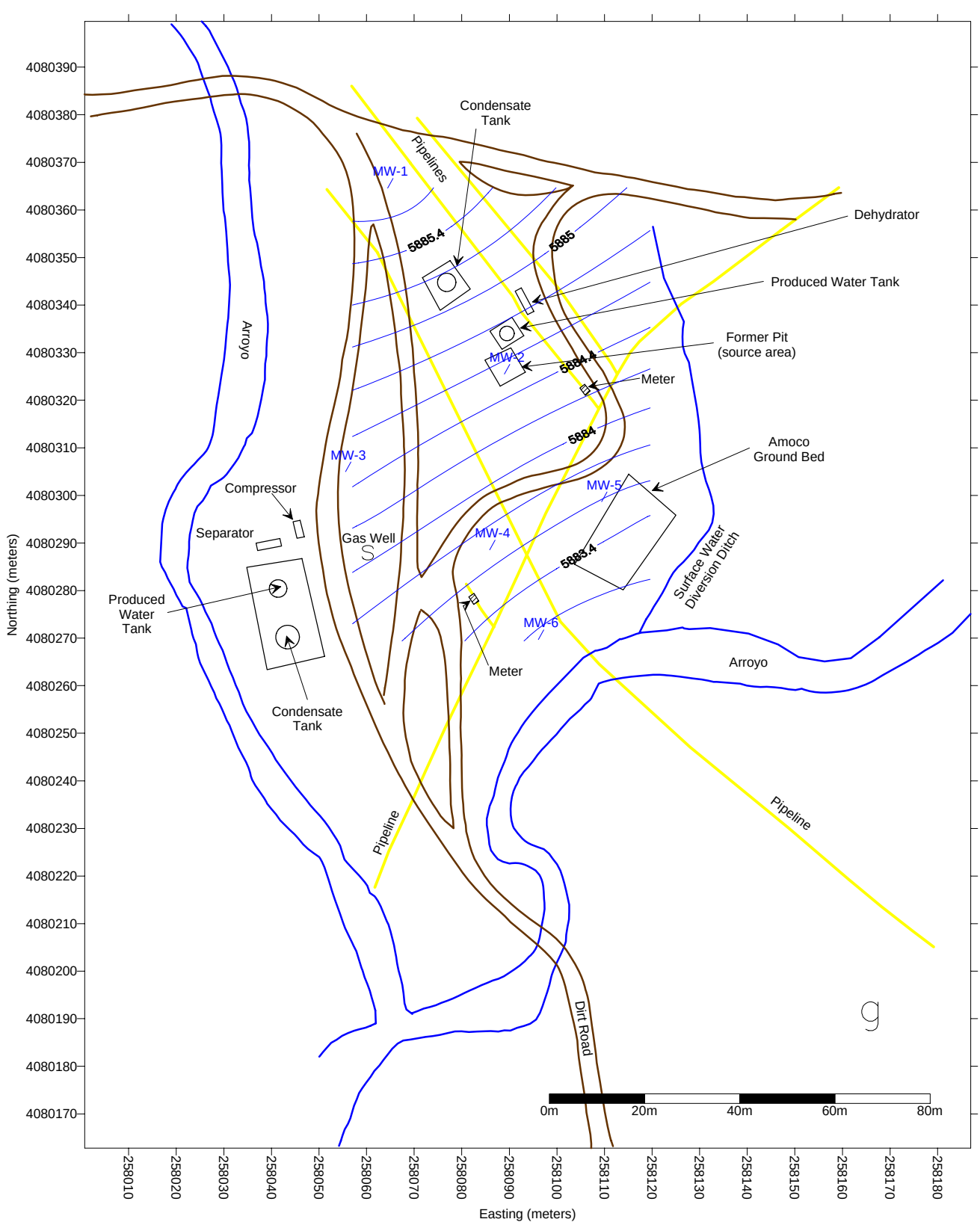


Figure 2
Potentiometric Surface Map
Pritchard #2
(June 16, 2002)

LEGEND

MW-2 — Monitoring Well

5585.20 — Ground Water Elevation (ft. AMSL)

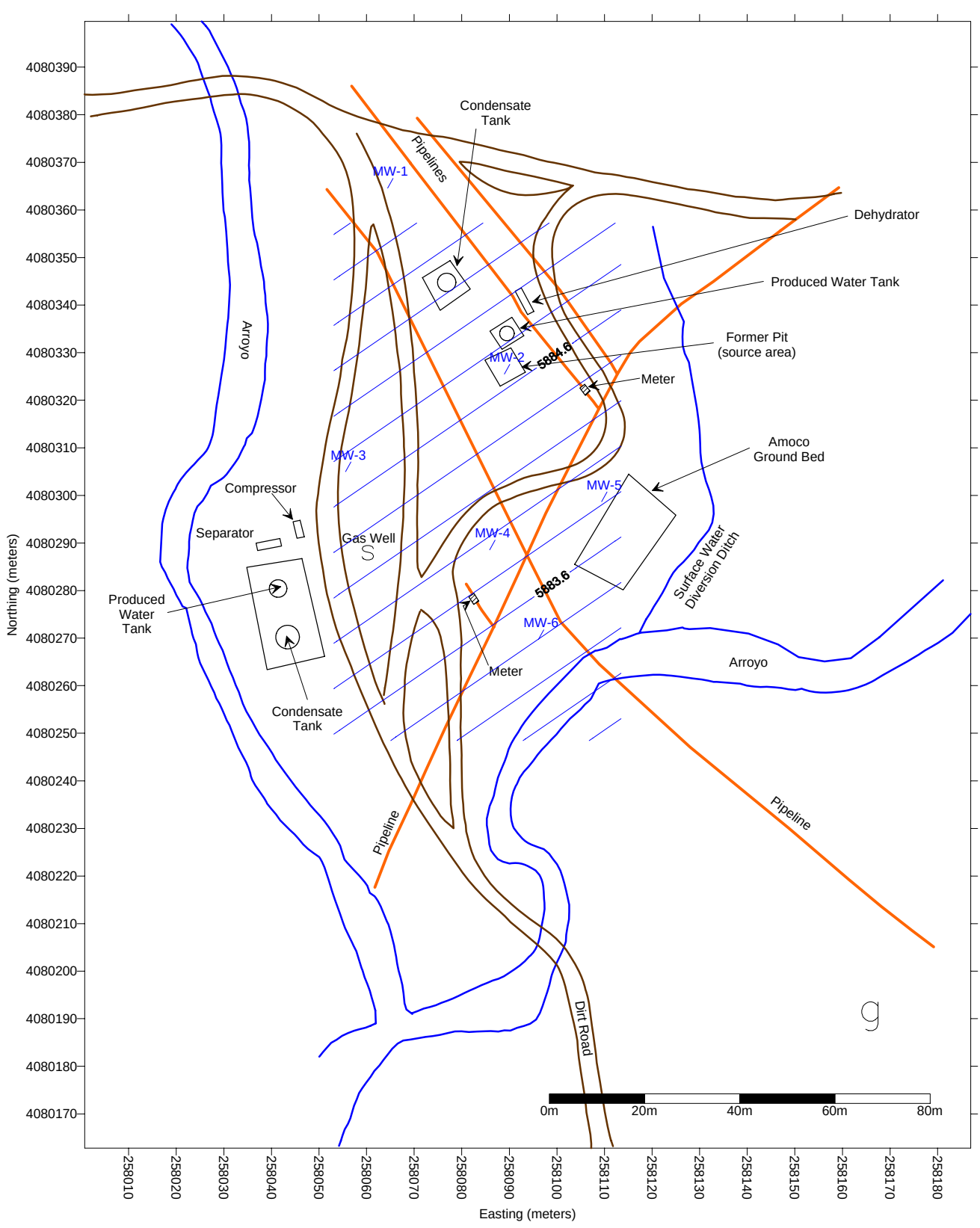


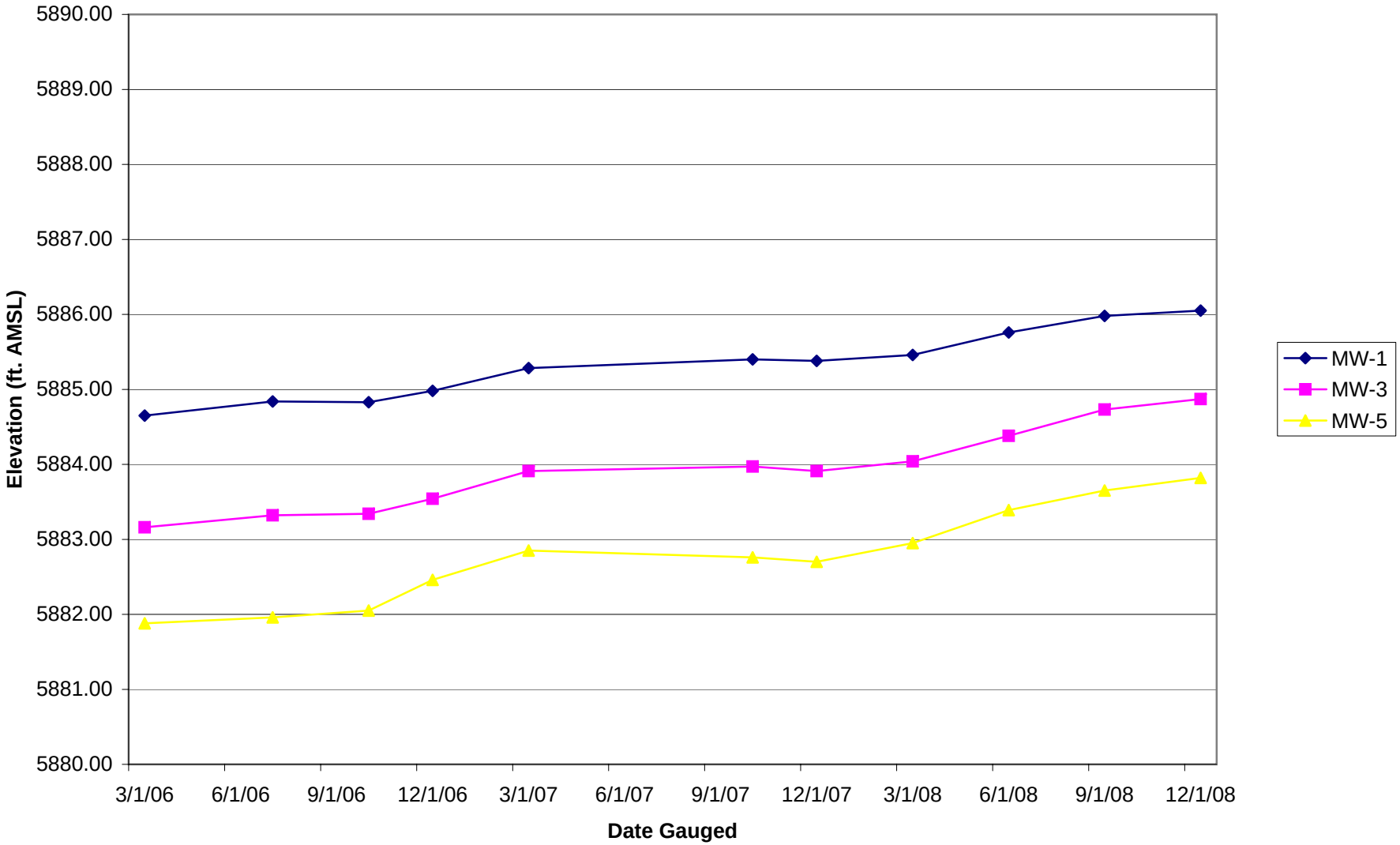
Figure 2
Potentiometric Surface Map
Pritchard #2
(December 16, 2003)

LEGEND

MW-2 — Monitoring Well

5585.20 — Ground Water Elevation (ft. AMSL)

Pritchard #2 2008 Hydrograph



Analytical Data Summary

Site Name:
Pritchard 2

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						
	3/1/2006	130901MAR06	2.0	2.2	ND	48.6
	7/13/2006	151613JUL06	17.5	6.0	<1.0	57.2
	12/8/2006	123708DEC06	18.4	14.3	<1.0	116
	3/20/2007	140720MAR07	14.3	8.7	<1.0	75.5
	6/28/2007	142828JUN07	15	1.2	<1.0	
	10/8/2007	124608OCT07	33.8	<1.0	<1.0	37.8
	12/19/2007	153619DEC07	46.2	8.6	1.2	68.6
	3/26/2008	185026MAR08	37.7	7.9	1.3	105
	6/4/2008	161004JUN08	22.3	15.1	<1.0	70.4
	9/18/2008	125919SEP08	28.4	8.7	<1.0	81.8
	12/6/2008	091006DEC08	18.1	2.0	<1.0	46.0
MW-2						
	7/13/2006	165113JUL06	6300	28500	2740	49500
MW-3						
	3/1/2006	132601MAR06	17.0	12.3	ND	15.1
	7/13/2006	152613JUL06	56.7	6.3	<1.0	7.8
	12/8/2006	125708DEC06	66.0	17.9	1.0	16.3
	3/20/2007	142420MAR07	79.3	18.3	2.4	19.2
	6/28/2007	144128JUN07	33	18	1.0	
	10/8/2007	130508OCT07	69.0	8.5	2.2	13.1
	12/19/2007	155019DEC07	74.8	6.2	2.4	11.9
	3/26/2008	190326MAR08	26.0	14.3	1.2	11.5
	6/4/2008	162204JUN08	82.1	3.4	7.1	49.9
	9/18/2008	131319SEP08	28.9	1.3	3.1	10.7
	12/6/2008	092606DEC08	25.3	1.7	3.0	12.2
MW-4						
	12/19/2007	162019DEC07	69.8	103	14.5	150

Site Name:

Pritchard 2

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-5						
	3/1/2006	134201MAR06	ND	ND	ND	5.4
	7/13/2006	154913JUL06	21.7	7.6	<1.0	44.7
	12/8/2006	131408DEC06	11.1	1.2	<1.0	27.2
	3/20/2007	144920MAR07	41.2	7.5	1.2	75.2
	6/28/2007	145328JUN07	46	3.6	1.6	
	10/8/2007	132408OCT07	86.9	3.8	2.1	102
	12/19/2007	160419DEC07	75.9	6.0	1.5	71.3
	3/26/2008	191426MAR08	24.1	2.3	1.7	41.6
	6/4/2008	163504JUN08	102	5.7	9.4	168
	9/18/2008	132719SEP08	285	18.1	12.0	344
MW-6						
	12/8/2006	133108DEC06	1020	1570	299	2550
	3/20/2007	150620MAR07	525	791	125	1100
	6/28/2007	151028JUN07	2000	3500	330	
	10/8/2007	134708OCT07	1630	2840	316	3250
	12/19/2007	162919DEC07	<1.0	<1.0	<1.0	<3.0
	3/26/2008	192826MAR08	2100	2500	454	4350
	6/4/2008	164904JUN08	1460	1120	370	3350
	9/18/2008	134319SEP08	2800	801	494	4580
	12/6/2008	101706DEC08	759	280	247	2130