

3R – 325

2008 AGWMR

04 / 05 / 2009

Site Summary Report

Site Name: Jicarilla Contract 147-6

Reporting Period: 2008

Location: Unit C, Sec 6, Twn 25N, Rng 5W

Canyon: Tapicito

Operator: Amoco

Vulnerable Class: expanded

OCD Ranking: 40

Lead Agency: NMOCD / JAEPO

Status Narrative

Thirty-seven quarters of water quality data have been collected from the ten monitoring wells located at this site. Concentrations of BTEX in MW-2, the source area well, have been below NMWQCC standards in each of the last twelve quarters. Cross-gradient well MW-8 continues to show elevated benzene levels but measured values are trending down.

MW-4 and MW-7 were both lost due to erosion and their locations adjacent to the arroyo bank. Concentrations of dissolved BTEX in downgradient wells MW-3 and MW-6 remain above the cleanup standards with a spike in BTEX levels during the mid part of 2008. This may be related to the release event reported by the producer upgradient of the former dehy pit. Nevertheless, BTEX levels essentially returned to the previous levels observed in these wells during late 2007. Well MW-9, which is located approximately 13-meters downgradient of the former MW-7, had a benzene spike in the third quarter which did not appear again in the fourth quarter. Again, this spike may be related to the release event reported by the producer in 2007.

Potentiometric surface maps (Figure 2) depict a northwest by north to northwest ground water flow direction at an average hydraulic gradient of 0.025. Seasonal fluctuations in water-table elevation at the site are illustrated in the enclosed hydrograph.

It should be noted that the current production operator at this location continues with a spill response / cleanup effort from 2007. It was reported that approximately 200 bbls of condensate liquids were found to have been released from the producer tank sometime earlier in the fall of 2007. The nature and extent of any remedial effort performed by the producer is unknown.

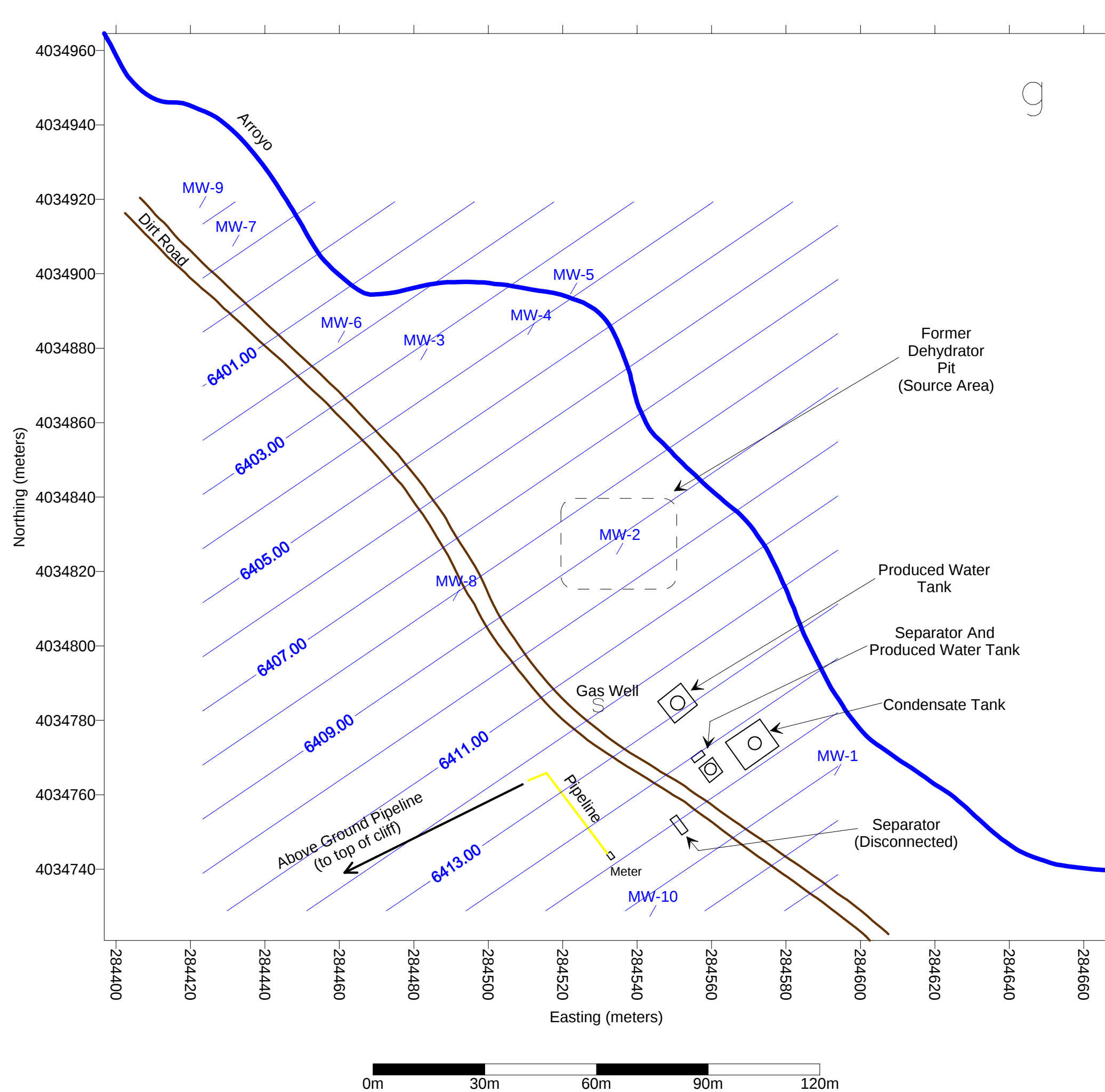


Figure 2
Potentiometric
Surface Map
Jicarilla Contract 147-6
(June 2008)

LEGEND

- MW-2 / Monitoring Well
- 5585.20 — Ground Water Elevation (ft. AMSL)

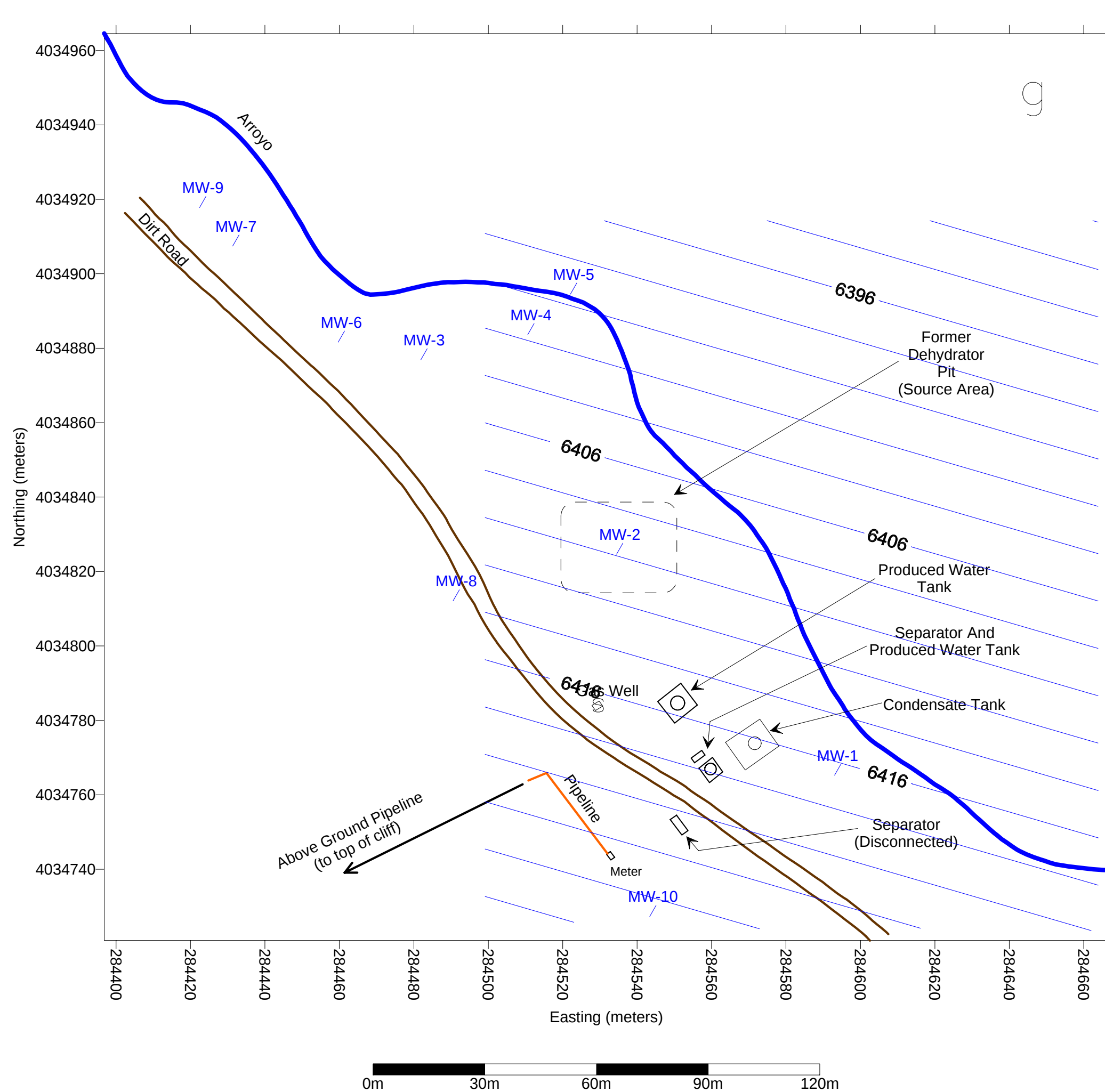


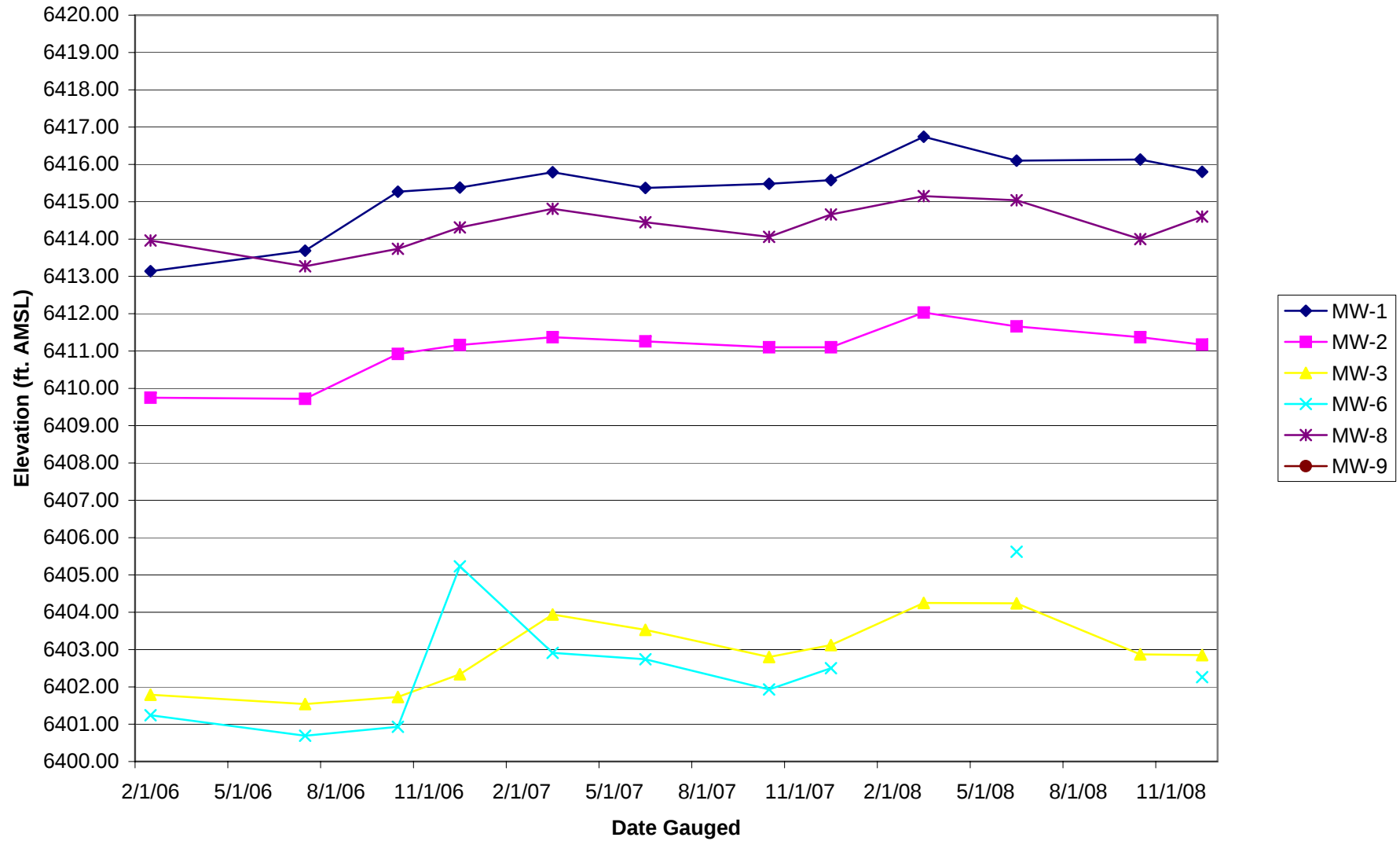
Figure 2
Potentiometric
Surface Map
Jicarilla Contract 147-6
(December 2008)

LEGEND

MW-2 / Monitoring Well

— 5585.20 — Ground Water Elevation (ft. AMSL)

Jicarilla 147-6 2008 Hydrograph



Analytical Data Summary

Site Name:

Jicarilla Contract 147-6

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						
	10/6/2006	121706OCT06	<1.0	<1.0	<1.0	<3.0
	3/26/2007	153426MAR07	<1.0	<1.0	<1.0	<3.0
	6/27/2007	150827JUN07	<1.0	<1.0	<1.0	<3.0
	10/9/2007	145509OCT07	<1.0	<1.0	<1.0	<3.0
	12/18/2007	114118DEC07	<1.0	<1.0	<1.0	<3.0
	3/27/2008	145527MAR08	<1.0	<1.0	<1.0	<3.0
	6/5/2008	165405JUN08	<1.0	<1.0	<1.0	<3.0
	10/1/2008	145501OCT08	<1.0	<1.0	<1.0	<3.0
	12/5/2008	092405DEC08	<1.0	<1.0	<1.0	<3.0
MW-2						
	2/26/2006	120526FEB06	2.1	ND	ND	ND
	7/14/2006	163714JUL06	<1.0	<1.0	<1.0	<3.0
	10/6/2006	125206OCT06	<1.0	<1.0	10.8	<3.0
	12/7/2006	140407DEC06	<1.0	2.2	1.8	<3.0
	3/26/2007	161626MAR07	<1.0	<1.0	<1.0	<3.0
	6/27/2007	153627JUN07	<1.0	<1.0	<1.0	<3.0
	10/9/2007	151909OCT07	<1.0	<1.0	<1.0	<3.0
	12/18/2007	121618DEC07	<1.0	<1.0	<1.0	<3.0
	3/27/2008	152427MAR08	<1.0	<1.0	<1.0	<3.0
	6/5/2008	171905JUN08	<1.0	<1.0	<1.0	<3.0
	10/1/2008	152201OCT08	<1.0	<1.0	2.6	<3.0
	12/5/2008	095605DEC08	<1.0	<1.0	<1.0	<3.0
MW-3						
	2/26/2006	113126FEB06	6310	9880	361	6890
	10/6/2006	132506OCT06	103	27.7	5.7	51.2
	12/7/2006	145407DEC06	14.8	2.9	<1.0	<3.0
	3/26/2007	163326MAR07	<1.0	<1.0	<1.0	<3.0
	10/9/2007	153409OCT07	<1.0	<1.0	<1.0	<3.0
	12/18/2007	123818DEC07	39.6	<1.0	1.8	<3.0
	3/27/2008	154027MAR08	<1.0	<1.0	<1.0	<3.0
	6/5/2008	174005JUN08	10.1	<1.0	<1.0	<3.0
	10/1/2008	153501OCT08	82.6	10.5	4.0	24.5
	12/5/2008	101605DEC08	98.0	58.5	5.1	66.9

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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-4						
	2/26/2006	105526FEB06	123	ND	39.1	ND
	7/14/2006	170214JUL06	159	3.2	60.3	15.4
	10/6/2006	130806OCT06	37.2	<1.0	12.6	<3.0
	12/7/2006	143907DEC06	<1.0	2.2	<1.0	<3.0
	6/27/2007	154927JUN07	<1.0	<1.0	<1.0	<3.0
MW-6						
	2/26/2006	124726FEB06	14900	254	324	1260
	7/14/2006	173314JUL06	14500	701	338	1620
	10/6/2006	134106OCT06	12300	270	246	1020
	12/7/2006	151007DEC06	9900	572	276	768
	3/26/2007	165726MAR07	18700	8500	528	3210
	6/27/2007	161827JUN07	19800	892	612	3990
	10/9/2007	154909OCT07	15900	10800	443	4120
	12/18/2007	125018DEC07	13100	<100	391	1520
	6/5/2008	175305JUN08	20700	7210	606	4170
	10/1/2008	155901OCT08	13600	7330	400	3080
	12/5/2008	103605DEC08	12300	1030	368	1390
MW-8						
	2/26/2006	114626FEB06	414	ND	5.1	7.0
	10/6/2006	123706OCT06	81.0	<1.0	1.5	<3.0
	12/7/2006	134807DEC06	93.2	3.5	1.3	<3.0
	3/26/2007	155626MAR07	348	<1.0	5.2	<3.0
	6/27/2007	152427JUN07	248	<5.0	14.6	<15.0
	10/9/2007	150909OCT07	76.4	<1.0	<1.0	<3.0
	12/18/2007	115718DEC07	52.6	<1.0	2.0	<3.0
	3/27/2008	151027MAR08	23.5	<1.0	1.4	<3.0
	6/5/2008	170905JUN08	8.9	<1.0	<1.0	<3.0
	10/1/2008	151101OCT08	9.5	<1.0	<1.0	<3.0
	12/5/2008	094005DEC08	25.7	<1.0	<1.0	<3.0

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Well ID	Sample Date	Sample ID	Benzene ug/l	Toluene ug/l	Ethylbenzene ug/l	Xylene (Total) ug/l
MW-9	2/26/2006	122826FEB06	ND	ND	ND	ND
	7/14/2006	175114JUL06	<1.0	<1.0	<1.0	<3.0
	10/6/2006	135606OCT06	<1.0	<1.0	<1.0	<3.0
	12/7/2006	153207DEC06	37.7	3.3	<1.0	<3.0
	3/26/2007	172226MAR07	<1.0	<1.0	<1.0	<3.0
	6/27/2007	170327JUN07	<1.0	<1.0	<1.0	<3.0
	10/9/2007	160609OCT07	<1.0	<1.0	<1.0	<3.0
	12/18/2007	133918DEC07	3.4	<1.0	<1.0	<3.0
	3/27/2008	161527MAR08	<1.0	<1.0	<1.0	<3.0
	6/5/2008	182005JUN08	<1.0	<1.0	<1.0	<3.0
	10/1/2008	161301OCT08	46.6	<1.0	<1.0	<3.0
	12/5/2008	105105DEC08	<1.0	<1.0	<1.0	<3.0