

3R – 315

2011 AGWMR

05 / 11 / 2012



RECEIVED OCD

2012 MAY 14 A 11: 13

May 11, 2012

Mr. Glen Von Gonten
Hydrologist
Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 87505

RE: 2011 GROUND WATER SUMMARY REPORT

Dear Mr. Von Gonten:

Enclosed for your review is the Williams 2011 Ground Water Summary Report. The report presents monitoring data for seven sites having petroleum hydrocarbon impacted ground water resulting from past use of unlined surface impoundments. Information for each site includes a brief narrative, analytical summary, hydrograph, and ground water contour maps.

As has been mentioned previously, four of the eight sites have known or suspected up-gradient contaminant sources which continue to influence conditions affecting the rate of natural attenuation. These conditions likely indicate producer or third party responsibility and affect the ultimate closure schedule.

Two sites (Florence 47X and Davis #1) have regular accumulations of LNAPL in one monitoring well at each location. Since 2002, passive collection devices have been deployed in all wells containing measurable accumulations of LNAPL. Free product which has again appeared at the Dogie Compressor Station has been analyzed and found to be some type of refined product. A report on this finding will be presented under separate cover. Periodic emptying of the collection devices along with active bailing of LNAPL continues at all free product sites if and when LNAPL is observed.

As noted in the site summaries, laboratory reports have not been included in the annual summary report. Lab results reports are retained in project files until such time as a site closure report is developed, but are available anytime upon request.

Thank you for your time to review this submittal. If you have any questions regarding the content of the report, or about specific conditions at any site, you may call me at (505) 402-1958 or Danny Reutlinger at (918) 573-2000.

Respectfully,

A handwritten signature in black ink, appearing to read "Mark Harvey", is written over the typed name.

Mark Harvey
Project Manager

Enclosure

c: Bill Liess, BLM Farmington District Office
Dan Reutlinger, Williams-TUL



Annual Groundwater Report 2011

San Juan Basin, New Mexico
Unlined Surface Impoundments

3R-315

Site Summary Report

Site Name: Florance 40

Reporting Period: 2011

Location: Unit G, Sec 21, Twn 30N, Rng 8W

Canyon: Gobernador

Operator: BP

Status Narrative

Responsibility for the remediation of the contaminant plume or plumes was divided between BP and Williams by virtue of a December 30, 1997 letter to Amoco. In that letter, the NMOCD required Amoco to address soil and ground water contamination downgradient of Amoco's separator pit, located up gradient of the Williams source area. The letter assigned responsibility for ground water contamination downgradient of PNM's former dehydrator pit to PNM (now a Williams' responsibility). The effort or level of investigation by BP at this location is unknown.

Fifty-seven quarters of water quality data have been collected from the seven monitoring wells located at this site. LNAPL previously present in several wells has not observed for several years. The majority of recovered LNAPL had been previously removed from well MW-1 located in the BP (Amoco) area of responsibility. Monitoring well MW-6 (source area) which previously had LNAPL, continues to show a declining contaminant trend as does the up gradient Amoco well. Monitoring of sentinel well MW-7 confirms that there is no plume migration off-site.

Potentiometric surface maps show ground water to flow generally to the east-southeast at an average hydraulic gradient of 0.05. Up gradient contamination likely delays effective monitored natural attenuation in the area for which Williams is responsible. Until such time as up-gradient conditions are addressed, monitored natural attenuation and ultimate site closure will likely extend in time.

Analytical Data Summary

Site Name:

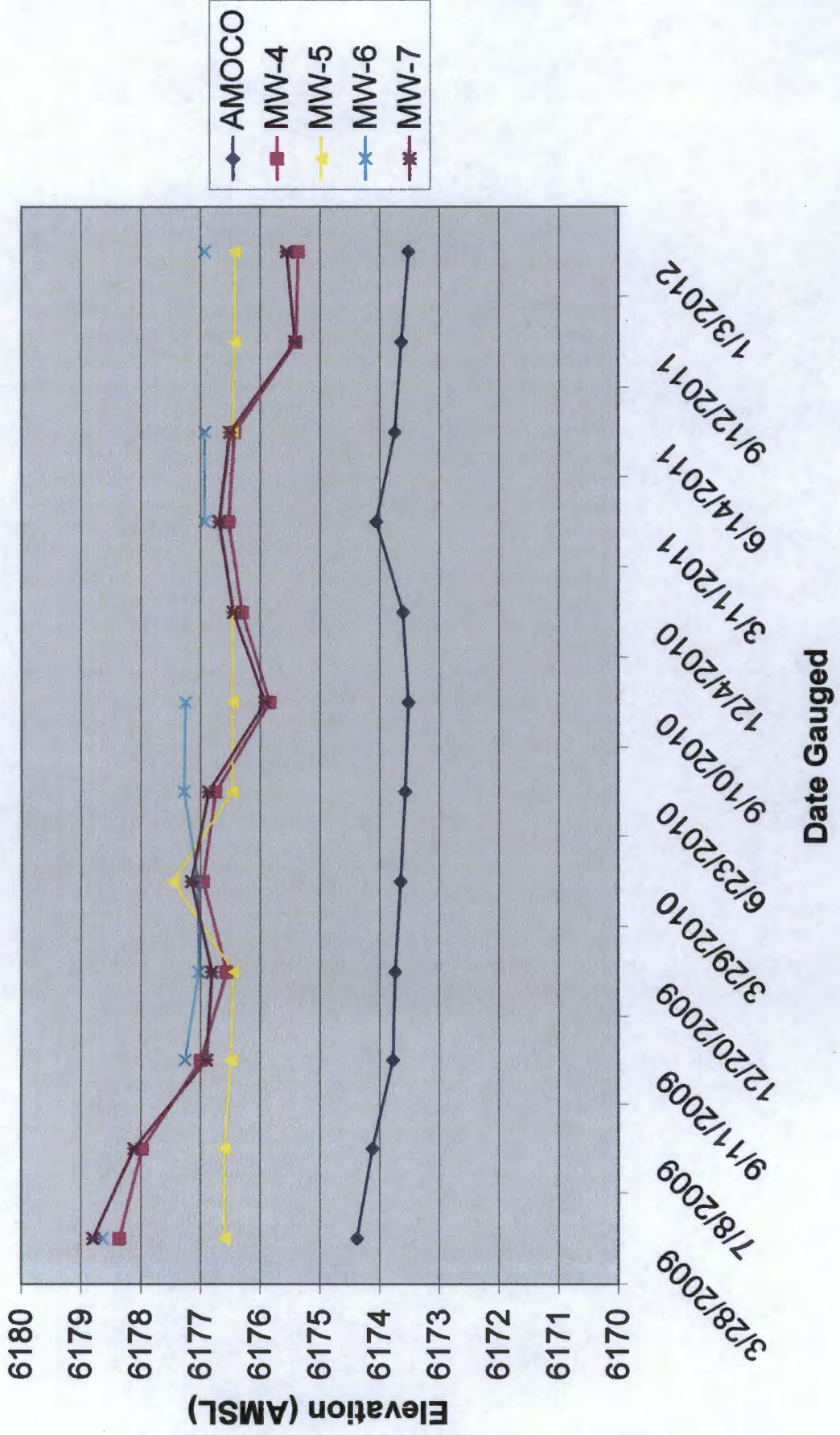
Florance 40

Reporting Period:

1/1/2010 To 1/30/2012

Well ID	Sample Date	Sample ID	Benzene ug/l	Toluene ug/l	Ethylbenzene ug/l	Xylene (Total) ug/l
AMOCO						
	3/29/2010	170129MAR10	114	<100	1230	8840
	6/23/2010	115923JUN10	116	<25.0	3400	19000
	9/10/2010	121410SEP10	112	<50.0	2980	22000
	12/4/2010	123304DEC10	103	<50.0	1710	10900
	3/11/2011	152211MAR11	78.1	23.3	1130	6350
	6/14/2011	141214JUN11	88.1	<10.0	1980	14200
	9/12/2011	141912SEP11	75.6	<1.0	670	3710
	1/3/2012	120603JAN12	73.8	<5.0	732	3380
MW-4						
	3/29/2010	172729MAR10	<5.0	7.1	65.5	360
	6/23/2010	123123JUN10	<5.0	<5.0	70.1	439
	9/10/2010	124110SEP10	<1.0	<1.0	11.8	110
	12/4/2010	130604DEC10	<5.0	<5.0	15.8	152
	3/11/2011	154111MAR11	<5.0	<5.0	18.1	167
	6/14/2011	142814JUN11	<1.0	<1.0	4.9	33.3
	9/12/2011	144212SEP11	<1.0	<1.0	<1.0	7.9
	1/3/2012	122303JAN12	<1.0	<1.0	<1.0	3.6
MW-6						
	6/23/2010	121923JUN10	815	75.3	32.3	3090
	9/10/2010	123110SEP10	674	129	28.7	4010
MW-7						
	3/29/2010	164629MAR10	<5.0	<5.0	<5.0	<15.0
	6/23/2010	114223JUN10	<1.0	<1.0	<1.0	<3.0
	9/10/2010	120010SEP10	<1.0	<1.0	<1.0	<3.0
	12/4/2010	122504DEC10	<1.0	<1.0	<1.0	<3.0
	3/11/2011	150311MAR11	<1.0	<1.0	<1.0	<3.0
	6/14/2011	140314JUN11	<1.0	<1.0	<1.0	<3.0
	9/12/2011	140612SEP11	<1.0	<1.0	<1.0	<3.0
	1/3/2012	115603JAN12	<1.0	<1.0	<1.0	<3.0

2011 FLR40 Hydrograph



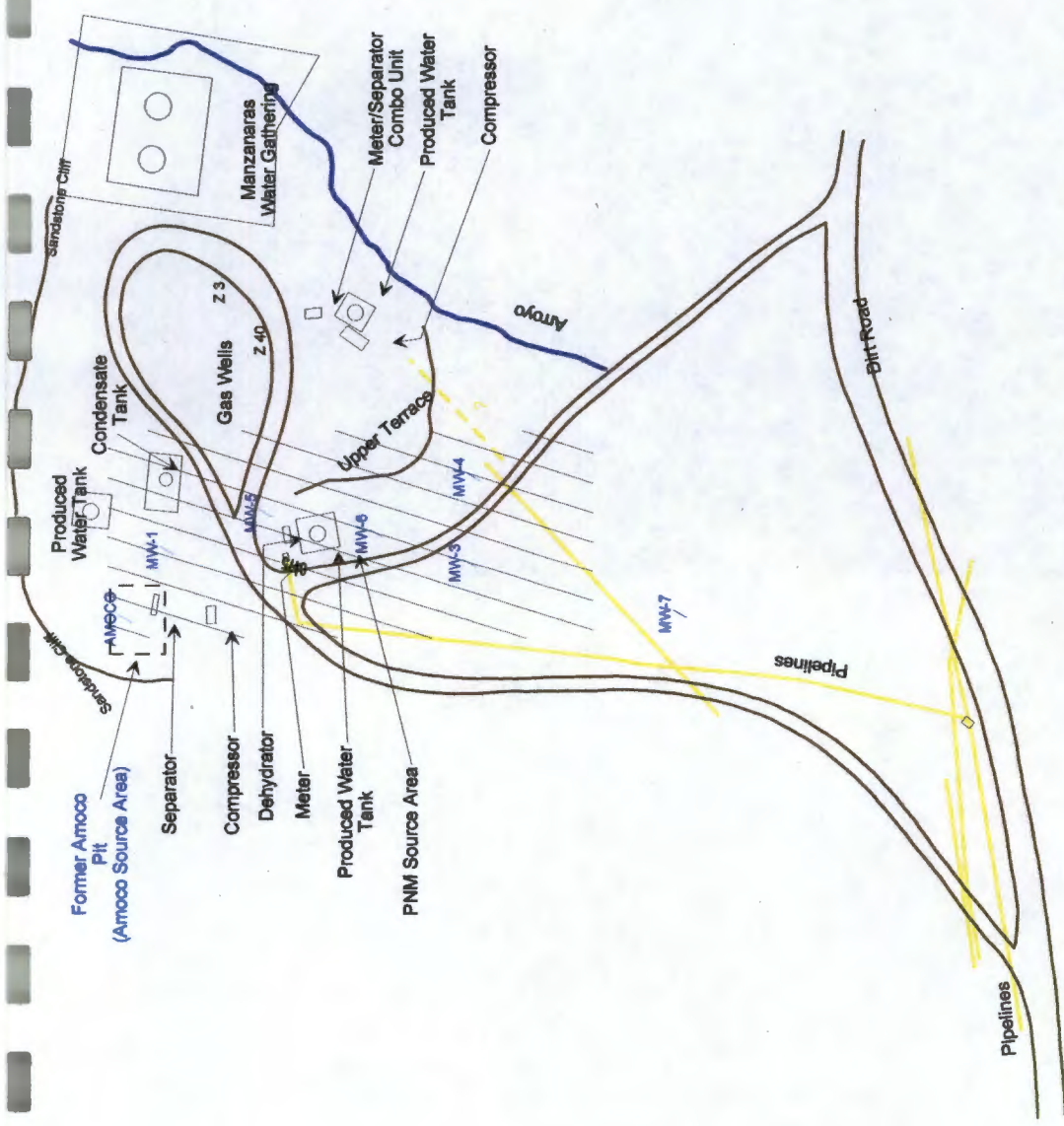


Figure 2
Potentiometric
Surface Map
Florance 40
September 2011

LEGEND

MW-2 / Monitoring Well

--- 5585.20 --- Ground Water Elevation (ft. AMSL)



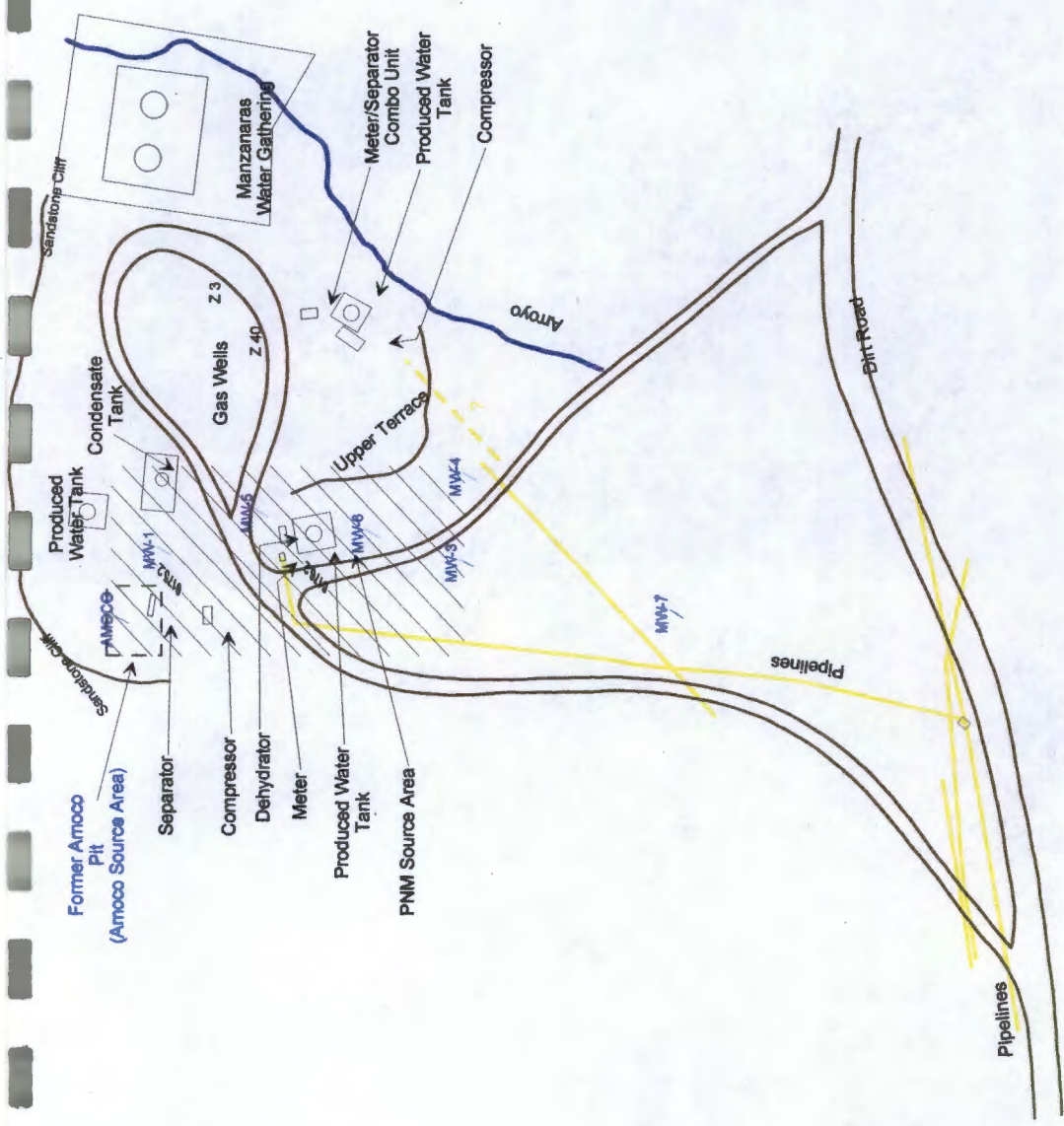


Figure 2
 Potentiometric
 Surface Map
 Florance 40
 March 2011

