

3R – 317

2009 AGWMR

09 / 03 / 2010

RECEIVED OGD

270 SEP 13 A 9 29



Environmental Services
188 CR 4900
Bloomfield, NM 87413

September 3, 2010

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

RE: 2009 GROUND WATER SUMMARY REPORT

Dear Mr. Von Gonten:

Enclosed for your review is the Williams 2009 Ground Water Summary Report. The report presents monitoring data for eight sites having petroleum hydrocarbon impacted ground water resulting from past use of unlined surface impoundments. The sites included in the report are identified in separate sections.

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 have been previously mentioned in project correspondence and suggest producer or third party responsibility. Until such time as the other responsible parties address these sources, efforts by Williams are invariably extended.

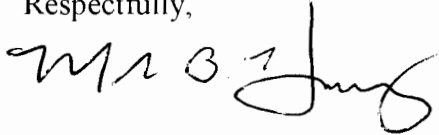
Two sites (Florence 47X and Davis #1) have regular accumulations of LNAPL in one monitoring well at each location. Since 2002, passive collection devices have been deployed in all wells containing measurable accumulations of LNAPL. Periodic emptying of the collection devices along with active bailing of LNAPL during the quarterly sampling events continues at the aforementioned sites and at times if observed at any other site.

One site previously monitored (Patterson A COM #1A) met closure criteria in 2008 and a closure request was submitted in 2009. Williams plans to close the Patterson A COM #1A and abandon the monitoring wells there unless the NMOCD objects to that action in the next 60 days. Williams will also abandon monitoring wells at five other sites where closure requests were made based on meeting closure criteria. The closure notices for these sites were submitted on two occasions with no response from the NMOCD. Again, closure is assumed to be approved unless there is documented objection.

As noted in the site summaries, laboratory reports have not been included in the annual 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 (801) 232-8985 or Aaron Dailey at (505) 634-4708.

Respectfully,

A handwritten signature in black ink, appearing to read 'Mark B. Harvey', written in a cursive style.

Mark B. Harvey
Project Manager

Enclosure

Note: Report previously submitted electronically April 4, 2010

3R-317

FLORANCE # 47X

Site Summary Report

Site Name: Florance 47X

Reporting Period: 2009

Location: Unit G, Sec 5, Twn 30N, Rng 8W

Canyon: Crow

Operator: Amoco

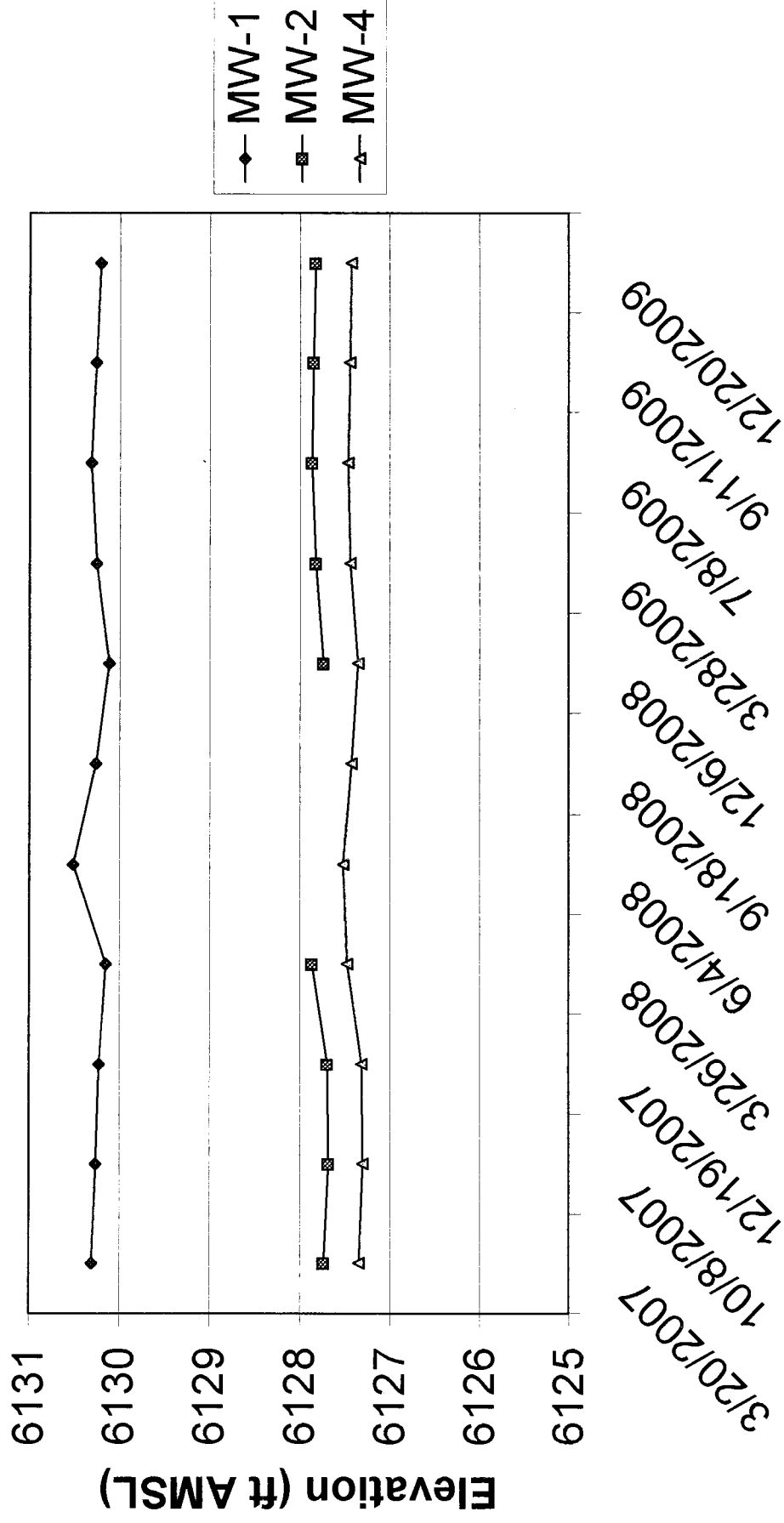
Status Narrative

Forty-nine 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 38-liters of LNAPL has been recovered from this well. In down and cross-gradient well MW-4, only xylene was detected during the monitoring period. This was consistent with the findings from 2008.

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(s) 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 WFS dehydrator pit and MW-2.

FLR47X 2009 Hydrograph



Date Gauged

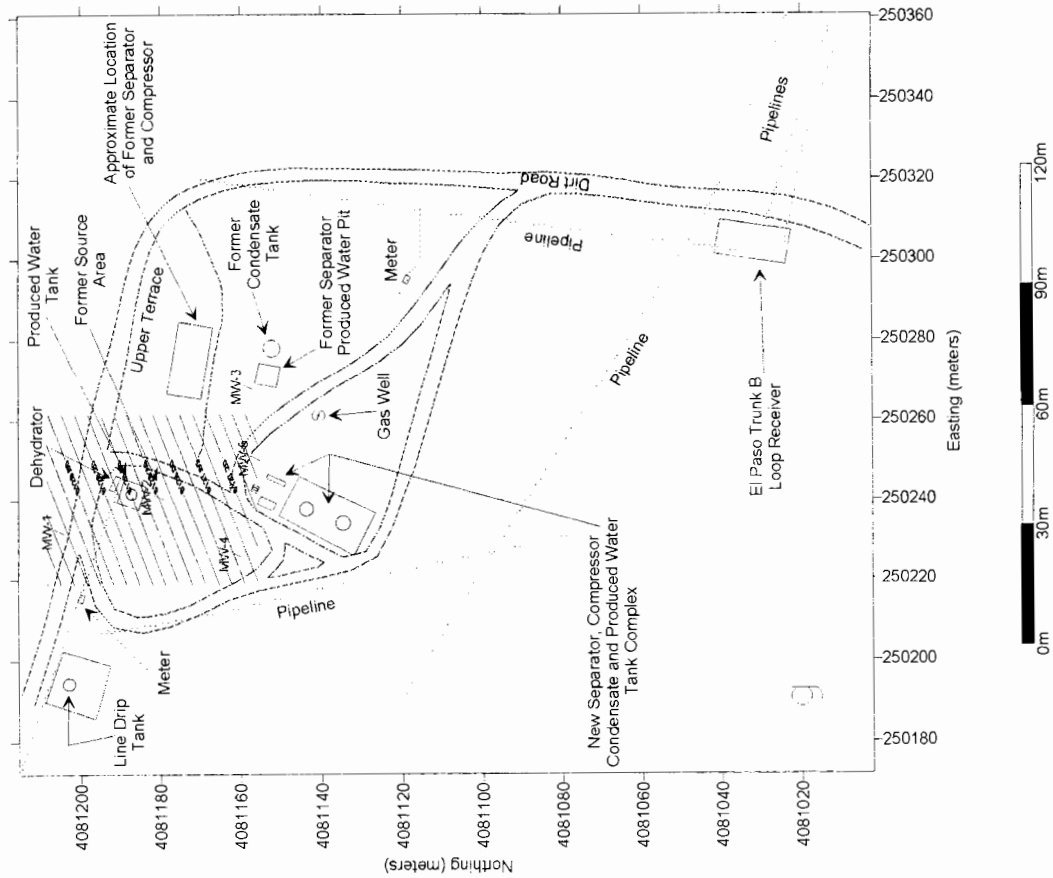
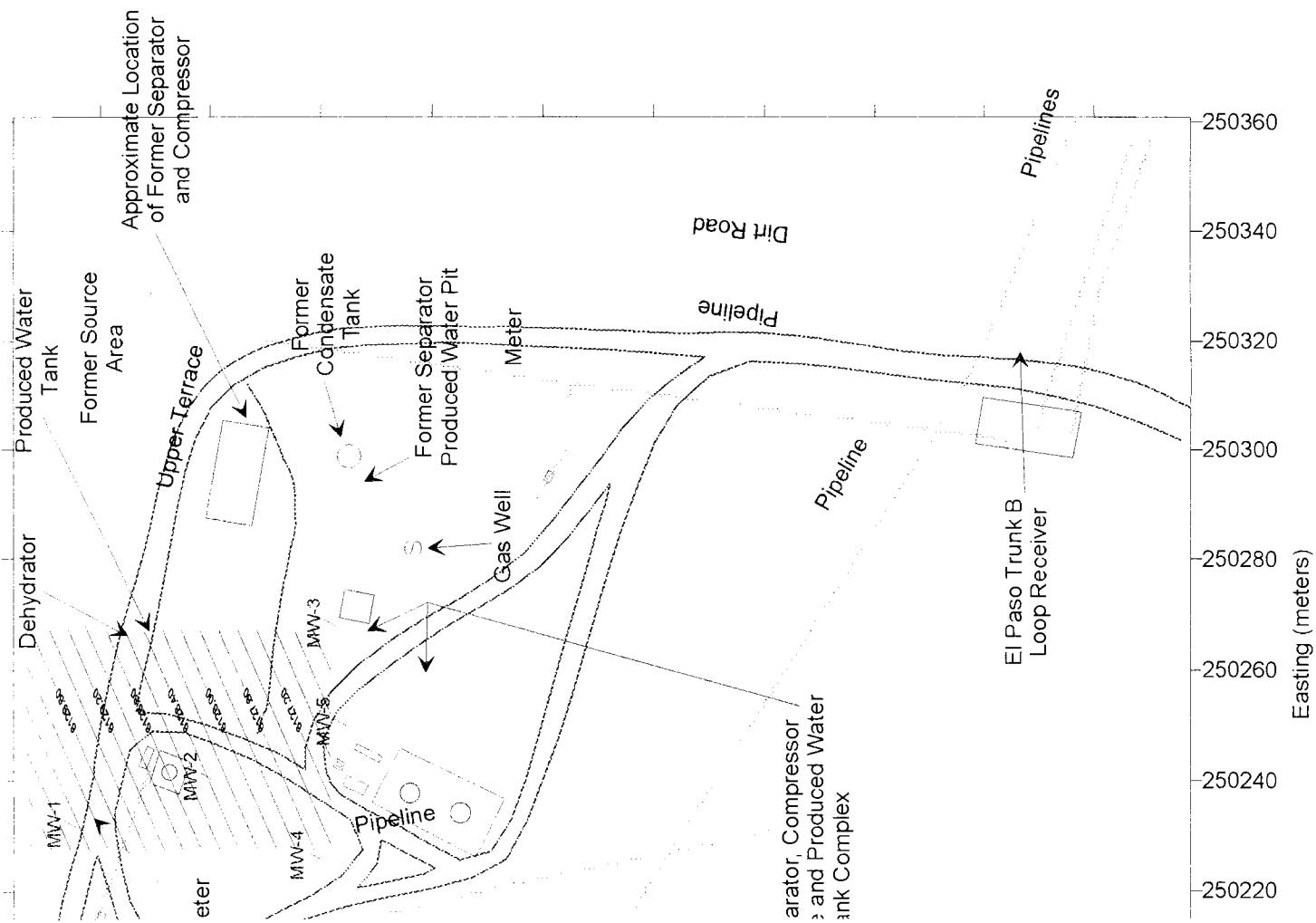


Figure 2
Potentiometric
Surface Map
Florance 47X
(December 2009)

LEGEND

MW-2 / Monitoring Well

— 5585.20 — Ground Water Elevation (ft. AMSL)



arator, Compressor
& Produced Water
Tank Complex

Approximate Location
of Former Separator
and Compressor

Upper Terrace

Former
Condensate
Tank

Former Separator
Produced Water Pit

Gas Well

Meter

Pipeline

Pipeline

Pipelines

El Paso Trunk B
Loop Receiver

Easting (meters)

250220 250240 250260 250280 250300 250320 250340 250360

Analytical Data Summary

Site Name:

Florance M 47X

Reporting Period:

1/1/2008 To 12/31/2009

Well ID	Sample Date	Sample ID	Benzene ug/l	Toluene ug/l	Ethylbenzene ug/l	Xylene (Total) ug/l
MW-1						
	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
	7/8/2009	181408JUL09	1.2	<1.0	<1.0	<3.0
	9/11/2009	185111SEP09	<1.0	<1.0	<1.0	<3.0
	12/20/2009	125320DEC09	<1.0	<1.0	<1.0	<3.0
MW-2						
	12/6/2008	110406DEC08	6570	<25.0	660	3700
	12/6/2008	110206DEC08	5820	<25.0	442	3850
	3/28/2009	145028MAR09	7760	<50.0	768	6100
	7/8/2009	182508JUL09	6150	<20.0	540	5640
	9/11/2009	190811SEP09	8460	<20.0	729	4150
	12/20/2009	130620DEC09	8980	<50.0	744	6080
MW-4						
	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
	3/28/2009	150428MAR09	<1.0	<1.0	<1.0	6.8
	7/8/2009	183108JUL09	<1.0	<1.0	<1.0	8.3
	12/20/2009	131820DEC09	<1.0	<1.0	<1.0	8.5