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Annual GW Mon. REPORTS

DATE:

2008

2008
ANNUAL MONITORING REPORT

RED BYRD #1

SE ¼ NE ¼, SECTION 1, TOWNSHIP 20 SOUTH, RANGE 36 EAST
LEA COUNTY, NEW MEXICO
PLAINS EMS NUMBER: TNM RED BYRD #1
NMOCD REFERENCE NUMBER 1R-0085

PREPARED FOR:

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NOVA
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PREPARED BY:

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December 2008

Ronald K. Rounsaville
Project Manager

Brittan K. Byerly, P.G.
President

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ENCLOSED ON DATA DISK

INTRODUCTION

On behalf of Plains Marketing, L.P. (Plains), NOVA Safety and Environmental (NOVA) is pleased to submit this Annual Monitoring Report in compliance with the New Mexico Oil Conservation Division (NMOCD) letter of May 1998, requiring submittal of an Annual Monitoring Report by April 1 of each year. The Red Byrd #1 site, which was formally the responsibility of Texas New Mexico Pipeline Company (TNM), is now the responsibility of Plains. The Release Notification and Corrective Action (Form C-141) is provided as Appendix A. This report is intended to be viewed as a complete document with text, figures, tables and appendices. The report presents the results of the quarterly groundwater monitoring events conducted in calendar year 2008 only. However, historic data tables as well as 2008 laboratory analytical reports are provided on the enclosed data disk. The Site Location Map is provided as Figure 1.

Groundwater monitoring was conducted during each quarter of 2008 to assess the levels and extent of dissolved phase constituents and Phase Separated Hydrocarbon (PSH). The groundwater monitoring events consisted of measuring static water levels in the monitor wells, checking for the presence of PSH and purging and sampling of each well exhibiting sufficient recharge. Monitor wells containing a thickness of PSH greater than 0.01 foot were sampled as per a NMOCD directive.

SITE DESCRIPTION AND BACKGROUND INFORMATION

The site is located approximately four miles southwest of the town of Monument, New Mexico in the SE 1/4 of the NE 1/4 of Section 1, Township 20 South, Range 36 East. Evidence of a historical release was brought to the attention of Link Energy (formerly Enron Oil Trading and Transportation (EOTT) who acquired the pipeline from TNM in 1999), by Mr. Red Byrd in January 2000.

Approximately 8,900 cubic yards of impacted soil was excavated, shredded and blended with nutrients. Approximately 3,700 cubic yards of the impacted soil was transported to Plains Lea Station to be used as berm material. Upon completion of excavation activities, confirmation soil samples were collected from the excavation and stockpiles. Review of analytical results indicated soil samples collected from the excavation to be below NMOCD regulatory standards. The excavation was backfilled with the blended soil and approximately 3,500 cubic yards of topsoil was transported onsite and the area was contoured to topographic grade.

Groundwater monitoring and gauging was conducted weekly at selected monitor wells at the site. During the reporting period, approximately 74 gallons (1.8 barrels) of PSH was recovered from monitor well MW-12, the monitor well containing PSH. Approximately 463 gallons (11 barrels) of PSH has been recovered by manual recovery since project inception. All wells are currently sampled on a quarterly schedule.

At the Red Byrd #1 site, two areas of hydrocarbon impact related to the Plains pipeline have been identified. The first area of impact (Red Byrd#1) is the subject of this Annual Monitoring Report and is centered on and around monitor well MW-1. The soil issues at the Red Byrd #1 site have been remediated and groundwater monitoring and sampling are on-going. The second area of impact related to the Plains pipeline is centered on monitor well MW-12. Plains is in the

process of delineating the soil issues at the Red Byrd Historical (MW-12 area) site and submitted a Site Investigation Report to the NMOCD in May 2008. The Site Investigation Report documents the delineation and remediation activities to date at the Site. The report also presented Plains' position (to the NMOCD) that there are likely additional sources outside the Plains pipelines that are or have contributed to the dissolved phase contaminant near the Red Byrd #1 site that have not yet been fully identified.

On May 29, 2008, in a correspondence to Plains Marketing L.P., the NMOCD recommended the installation of one monitor well located to the southeast of existing well MW-15 to delineate the groundwater contaminant plume downgradient of MW-15. On July 15, 2008, Plains installed monitor well MW-19 to a depth of approximately 45 feet below ground surface (bgs).

Currently, a total of 18 monitor wells are located on the Red Byrd #1 site.

FIELD ACTIVITIES

Product Recovery Efforts

A measurable thickness of PSH was detected in monitor well MW-12 throughout the 2008 reporting period. The average PSH thickness reported in monitor well MW-12 during the reporting period was 1.42 feet. The maximum PSH thickness was 1.83 feet on April 17, 2008, of the reporting period. A total of 31 gallons (0.74 barrels) of PSH was recovered from monitor well MW-12 during 2008.

Groundwater Monitoring

Quarterly monitoring events for the reporting period were performed according to the following sampling schedule, which was approved by the NMOCD in correspondence dated April 28, 2004, and confirmed by NMOCD correspondence dated June 22, 2005.

NMOCD APPROVED SAMPLING SCHEDULE					
Location	**Schedule**	**Location**	**Schedule**	**Location**	**Schedule**
MW-1	Quarterly	MW-8	Quarterly	MW-15	Quarterly
MW-2	P&A 11/9/06	MW-9	Quarterly	MW-16	Quarterly
MW-3	Quarterly	MW-10	Quarterly	MW-17	Quarterly
MW-4	Quarterly	MW-11	Quarterly	MW-18	Quarterly
MW-5	Quarterly	MW-12	Quarterly	MW-19	Quarterly
MW-6	Quarterly	MW-13	Quarterly		
MW-7	Quarterly	MW-14	Quarterly		

The site monitor wells were gauged and sampled on February 5, May 5, August 4 and November 3, 2008. During each sampling event, sampled monitor wells were purged of a minimum of three well volumes of water or until the wells were dry using a PVC bailer or electrical Grundfos pump. Groundwater was allowed to recharge and samples were obtained using disposable Teflon samplers. Water samples were collected in clean glass containers provided by the laboratory and placed on ice in the field. Purge water was collected in a polystyrene tank and disposed of at a licensed disposal facility.

Locations of the monitor wells and the inferred groundwater gradient, which were constructed from measurements collected during the four quarterly monitoring events, are depicted on Figures 2A through 2D, the Inferred Groundwater Gradient Maps. Groundwater elevation data

for 2008 is provided as Table 1. Historic groundwater elevation data beginning at project inception is provided on the enclosed data disk.

The most recent Groundwater Gradient Map, Figure 2D, indicates a general gradient of approximately 0.004 feet/foot to the south as measured between monitor well MW-1 and MW-9. This is consistent with data presented from earlier in the year. The corrected groundwater elevation has ranged between 3530.37 and 3536.02 feet above mean sea level, in monitor wells MW-3 on August 4, 2008 and MW-13 on February 5, 2008, respectively.

LABORATORY RESULTS

Groundwater samples obtained during the quarterly sampling events of 2008 were delivered to TraceAnalysis, Inc. in Midland, Texas for determination of Benzene, Toluene, Ethylbenzene and Xylene (BTEX) constituent concentrations by EPA Method 8021B, and Polynuclear Aromatic Hydrocarbons (PAH) concentrations by EPA Method 8270C. Monitoring wells containing measurable amounts of PSH were analyzed for Total Petroleum Hydrocarbons (TPH) concentrations by EPA Method 8015M. A listing of BTEX and TPH constituent concentrations for 2008 are summarized in Table 2 and the PAH constituent concentrations for 2008 are summarized in Table 3. Copies of the laboratory reports generated for 2008 are provided on the enclosed data disk. The quarterly groundwater sample results for BTEX constituent concentrations are depicted on Figures 3A through 3D.

Monitor well MW-1 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.154 mg/L during the 1st quarter to 0.816 mg/L during the 2nd quarter of 2008. Benzene concentrations were above the NMOCD regulatory standard of 0.01 mg/L during all four quarters of the reporting period. Toluene concentrations ranged from 0.0293 mg/L during the 4th quarter to <0.005 mg/L during the 2nd and 3rd quarters of 2008. Toluene concentrations were below the NMOCD regulatory standard of 0.75 mg/L during all four quarters of the reporting period. Ethylbenzene concentrations ranged from 0.104 mg/L during the 4th quarter to 0.583 mg/L during the 1st quarter of 2008. Ethylbenzene concentrations were below the NMOCD regulatory standard of 0.75 mg/L during all four quarters of the reporting period. Xylene concentrations ranged from 0.0972 mg/L during the 3rd quarter to 0.461 mg/L during the 1st quarter of 2008. Xylene concentrations were below the NMOCD regulatory standard of 0.62 mg/L during all four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards of 1-methylnaphthalene (0.175 mg/L).

Monitor well MW-3 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.382 mg/L during the 4th quarter to 0.554 mg/L during the 3rd quarter of 2008. Benzene concentrations were above the NMOCD regulatory standard during all four quarters of the reporting period. Toluene concentrations ranged from <0.100 mg/L during the 1st, 2nd and 4th quarters to <0.005 mg/L during the 3rd quarter of 2008. Toluene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Ethylbenzene concentrations ranged from 0.0844 mg/L during the 4th quarter to 0.2570 mg/L during the 1st quarter of 2008. Ethylbenzene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Xylene concentrations ranged from 0.122 mg/L during the 2nd quarter to 0.315 mg/L during the 1st quarter of 2008. Xylene concentrations were below the NMOCD regulatory standard during all

four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards of 1-methylnaphthalene (0.348 mg/L).

Monitor well MW-4 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.0083 mg/L during the 1st quarter to 0.1950 mg/L during the 2nd quarter of 2008. Benzene concentrations were above the NMOCD regulatory standard during the 2nd, 3rd and 4th quarters of the reporting period. Toluene concentrations ranged from <0.005 mg/L during the 2nd quarter to 0.0082 mg/L during the 1st quarter of 2008. Toluene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Ethylbenzene concentrations ranged from 0.146 mg/L during the 4th quarter to 0.219 mg/L during the 1st and 2nd quarters of 2008. Ethylbenzene concentrations were below the NMOCD regulatory standard all four quarters of the reporting period. Xylene concentrations ranged from 0.121 mg/L during the 4th quarter to 0.174 mg/L during the 2nd quarter of 2008. Xylene concentrations were below the NMOCD regulatory standard all four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards of 1-methylnaphthalene (0.322 mg/L) and 2- methylnaphthalene (0.0718 mg/L).

Monitor well MW-5 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.0266 mg/L during the 4th quarter to 0.223 mg/L during the 2nd quarter of 2008. Benzene concentrations were above the NMOCD regulatory standard all four quarters of the reporting period. Toluene concentrations ranged from <0.001 mg/L during the 4th quarter to 0.003 mg/L during the 1st quarter of 2008. Toluene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Ethylbenzene concentrations ranged from <0.001 mg/L during the 3rd quarter to 0.0158 mg/L during the 1st quarter of 2008. Ethylbenzene concentrations were below the NMOCD regulatory standard all four quarters of the reporting period. Xylene concentrations ranged from 0.106 mg/L during the 4th quarter to 0.238 mg/L during the 2nd quarter of 2008. Xylene concentrations were below the NMOCD regulatory standard all four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards of 1-methylnaphthalene (0.302 mg/L).

Monitor well MW-6 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.126 mg/L during the 4th quarter to 0.327 mg/L during the 2nd quarter of 2008. Benzene concentrations were above the NMOCD regulatory standard all four quarters of the reporting period. Toluene concentrations ranged from 0.003 mg/L during the 1st quarter to 0.117 mg/L during the 3rd quarter of 2008. Toluene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Ethylbenzene concentrations ranged from <0.020 mg/L during the 2nd quarter to 0.0294 mg/L during the 3rd quarter of 2008. Ethylbenzene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Xylene concentrations ranged from <0.020 mg/L during the 2nd quarter to 0.193 mg/L during the 1st quarter of 2008. Xylene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations above WQCC Drinking Water Standards during the reporting period.

Monitor well MW-7 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.0027 mg/L during the 4th quarter to 0.116 mg/L during the 2nd quarter of 2008. Benzene concentrations were above the NMOCD regulatory standard during the 1st and 2nd quarters of 2008. Toluene concentrations were below the MDL of <0.001 and the NMOCD regulatory standard during all four quarters of the reporting period. Ethylbenzene concentrations ranged from <0.001 mg/L during the 1st, 2nd and 4th quarters to 0.001 mg/L during the 3rd quarter of 2008. Ethylbenzene concentrations were below the NMOCD regulatory standard all four quarters of the reporting period. Xylene concentrations ranged from <0.001 mg/L during the 1st and 3rd quarters to 0.0149 mg/L during the 4th quarter of 2008. Xylene concentrations were below the NMOCD regulatory standard all four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations above WQCC Drinking Water Standards during the reporting period.

Monitor well MW-8 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.0051 mg/L during the 3rd quarter to 0.0319 mg/L during the 1st quarter of 2008. Benzene concentrations were above the NMOCD regulatory standard during the 1st and 4th quarters of 2008. Toluene concentrations were below the MDL of <0.001 and the NMOCD regulatory standard during all four quarters of the reporting period. Ethylbenzene concentrations ranged from <0.001 mg/L during the 3rd quarter to 0.045 mg/L during the 1st quarter of 2008. Ethylbenzene concentrations were below the NMOCD regulatory standard all four quarters of the reporting period. Xylene concentrations ranged from 0.0034 mg/L during the 3rd quarter to 0.0175 mg/L during the 1st quarter of 2008. Xylene concentrations were below the NMOCD regulatory standard all four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations above WQCC Drinking Water Standards during the reporting period.

Monitor well MW-9 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.0270 mg/L during the 3rd quarter to 0.2790 mg/L during the 4th quarter of 2008. Benzene concentrations were above the NMOCD regulatory standard during all four quarters of the reporting period. Toluene concentrations ranged from <0.001 mg/L during the 1st, 3rd and 4th quarters to <0.005 mg/L during the 2nd quarter of 2008. Toluene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Ethylbenzene concentrations ranged from 0.0011 mg/L during the 3rd quarter to 0.0102 mg/L during the 2nd quarter of 2008. Ethylbenzene concentrations were below the NMOCD regulatory standard all four quarters of the reporting period. Xylene concentrations ranged from <0.001 mg/L during the 3rd quarter to 0.0252 mg/L during the 4th quarter of 2008. Xylene concentrations were below the NMOCD regulatory standard all four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations above WQCC Drinking Water Standards during the reporting period.

Monitor well MW-10 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.0625 mg/L during the 4th quarter to 0.118 mg/L during the 1st quarter of 2008. Benzene concentrations were above the NMOCD regulatory standard during all four quarters of the reporting period. Toluene concentrations ranged from <0.001 mg/L during the 1st, 3rd and 4th quarters to <0.005 mg/L during the 3rd quarter of 2008. Toluene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Ethylbenzene concentrations ranged from 0.0029 mg/L during the 1st quarter to 0.0082 mg/L during the 2nd quarter of 2008. Ethylbenzene concentrations were below the

NMOCD regulatory standard all four quarters of the reporting period. Xylene concentrations ranged from 0.0131 mg/L during the 3rd quarter to 0.0305 mg/L during the 2nd quarter of 2008. Xylene concentrations were below the NMOCD regulatory standard all four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations above WQCC Drinking Water Standards during the reporting period.

Monitor well MW-11 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.0375 mg/L during the 3rd quarter to 0.260 mg/L during the 1st quarter of 2008. Benzene concentrations were above the NMOCD regulatory standard during all four quarters of the reporting period. Toluene concentrations ranged from <0.001 mg/L during the 1st and 4th quarters to <0.005 mg/L during the 2nd and 3rd quarters of 2008. Toluene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Ethylbenzene concentrations ranged from <0.005 mg/L during the 3rd quarter to 0.0599 mg/L during the 1st quarter of 2008. Ethylbenzene concentrations were below the NMOCD regulatory standard all four quarters of the reporting period. Xylene concentrations ranged from <0.005 mg/L during the 3rd quarter to 0.0273 mg/L during the 1st quarter of 2008. Xylene concentrations were below the NMOCD regulatory standard all four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations above WQCC Drinking Water Standards during the reporting period.

Monitor well MW-12 is sampled on a quarterly schedule. Monitor well MW-12 was not sampled during the first three quarters of the reporting period, due to the reported presence of PSH in the monitor well. PSH thicknesses of 1.54 feet, 1.48 feet, and 1.68 feet were reported during the 1st, 2nd, and 3rd quarters of 2008, respectively. Monitor well MW-12 was sampled during the 4th quarter of 2008 for BTEX, TPH and PAH. Analytical results on the groundwater sample collected from MW-12 exhibited a benzene concentration of 0.7290 mg/L, toluene concentration of 0.2130 mg/L, ethylbenzene concentration of 0.9940 mg/L, and a total xylene concentration of 2.640 mg/L during the 4th quarter of 2008. BTEX concentrations were above the NMOCD regulatory standard, with the exception of toluene, during the 4th quarter of the reporting period. Analytical results for TPH indicated a total concentration of 949 mg/L. PAH analysis during the 4th quarter sampling event indicated elevated concentrations above WQCC Drinking Water Standards of naphthalene (0.0414 mg/L), 1-methylnaphthalene (0.168 mg/L), and 2- methylnaphthalene (0.141 mg/L).

Monitor well MW-13 is sampled on a quarterly schedule and analytical results indicate benzene, toluene and ethylbenzene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Xylene concentrations ranged from <0.001 mg/L during the 3rd and 4th quarters to 0.0021 mg/L during the 1st quarter of 2008. Xylene concentrations were below the NMOCD regulatory standard all four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations above WQCC Drinking Water Standards during the reporting period.

Monitor well MW-14 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.0062 mg/L during the 4th quarter to 0.0095 mg/L during the 1st quarter of 2008. Benzene concentrations were below the NMOCD regulatory standard all four quarters of the reporting period. Toluene concentrations ranged from <0.001 mg/L during the 1st and 4th quarters to 0.0015 mg/L during the 3rd quarter of 2008. Toluene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period.

Ethylbenzene concentrations ranged from <0.001 mg/L during the 1st, 2nd and 4th quarters to 0.0017 mg/L during the 3rd quarter of 2008. Ethylbenzene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Xylene concentrations ranged from <0.001 mg/L during the 1st quarter to 0.0147 mg/L during the 4th quarter of 2008. Xylene concentrations were below the NMOCD regulatory standard all four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations above WQCC Drinking Water Standards during the reporting period.

Monitor well MW-15 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.0660 mg/L during the 3rd quarter to 0.5980 mg/L during the 2nd quarter of 2008. Benzene concentrations were above the NMOCD regulatory standard during all four quarters of the reporting period. Toluene concentrations ranged from <0.001 mg/L during the 2nd and 3rd quarters to <0.010 mg/L during the 4th quarter of 2008. Toluene concentrations were below the NMOCD regulatory standard during all four quarters of the reporting period. Ethylbenzene concentrations ranged from 0.0144 mg/L during the 3rd quarter to 0.190 mg/L during the 2nd quarter of 2008. Ethylbenzene concentrations were below the NMOCD regulatory standard all four quarters of the reporting period. Xylene concentrations ranged from 0.0108 mg/L during the 3rd quarter to 0.1770 mg/L during the 4th quarter of 2008. Xylene concentrations were below the NMOCD regulatory standard all four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations above WQCC Drinking Water Standards during the reporting period.

Monitor well MW-16 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.0566 mg/L during the 3rd quarter to 0.128 mg/L during the 2nd quarter of 2008. Benzene concentrations were above the NMOCD regulatory standard during all four quarters of the reporting period. Toluene concentrations ranged from <0.001 mg/L during the 3rd quarter to <0.005 mg/L during the 1st, 2nd and 4th quarters of 2008. Toluene concentrations were below the NMOCD regulatory standard all four quarters of the reporting period. Ethylbenzene concentrations ranged from 0.0334 mg/L during the 3rd quarter to 0.611 mg/L during the 1st quarter of 2008. Ethylbenzene concentrations were below the NMOCD regulatory standard all four quarters of the reporting period. Xylene concentrations ranged from 0.0503 mg/L during the 1st quarter to 0.1010 mg/L during the 4th quarter of 2008. Xylene concentrations were below the NMOCD regulatory standard all four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations above WQCC Drinking Water Standards during the reporting period.

Monitor well MW-17 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.0299 mg/L during the 3rd quarter to 0.0800 mg/L during the 2nd quarter of 2008. Benzene concentrations were above the NMOCD regulatory standard during all four quarters of the reporting period. Toluene concentrations ranged from <0.001 mg/L during the 1st, 3rd and 4th quarters to <0.005 mg/L during the 2nd quarter of 2008. Toluene concentrations were below the NMOCD regulatory standard all four quarters of the reporting period. Ethylbenzene concentrations ranged from 0.0159 mg/L during the 3rd quarter to 0.0415 mg/L during the 4th quarter of 2008. Ethylbenzene concentrations were below the NMOCD regulatory standard all four quarters of the reporting period. Xylene concentrations ranged from 0.0105 mg/L during the 3rd quarter to 0.0417 mg/L during the 4th quarter of 2008. Xylene concentrations were below the NMOCD regulatory standard all four quarters of the reporting

period. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations above WQCC Drinking Water Standards during the reporting period.

Monitor well MW-18 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from 0.0039 mg/L during the 4th quarter to 0.0438 mg/L during the 2nd quarter of 2008. Benzene concentrations were above the NMOCD regulatory standard during the 2nd and 3rd quarters of 2008. Toluene concentrations ranged from <0.001 mg/L during the 1st quarter to 0.004 mg/L during the 4th quarter of 2008. Toluene concentrations were below the MDL and the NMOCD regulatory standard during all four quarters of the reporting period. Ethylbenzene concentrations ranged from 0.0420 mg/L during the 4th quarter to 0.0991 mg/L during the 2nd quarter of 2008. Ethylbenzene concentrations were below the NMOCD regulatory standard all four quarters of the reporting period. Xylene concentrations ranged from 0.0397 mg/L during the 4th quarter to 0.0766 mg/L during the 2nd quarter of 2008. Xylene concentrations were below the NMOCD regulatory standard all four quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations above WQCC Drinking Water Standards during the reporting period.

Monitor well MW-19 is sampled on a quarterly schedule and analytical results indicate benzene concentrations ranged from <0.001 mg/L during the 3rd quarter to 0.0012 mg/L during the 4th quarter of 2008. Benzene concentrations were below the NMOCD regulatory standard during the 3rd and 4th quarters of 2008. Toluene concentrations were below the MDL and the NMOCD regulatory standard during the 3rd and 4th quarters of the reporting period. Ethylbenzene concentrations ranged from 0.0039 mg/L during the 3rd quarter to 0.0108 mg/L during the 4th quarter of 2008. Ethylbenzene concentrations were below the NMOCD regulatory standard during the 3rd and 4th quarters of the reporting period. Xylene concentrations ranged from 0.0039 mg/L during the 3rd quarter to 0.0201 mg/L during the 4th quarter of 2008. Xylene concentrations were below the NMOCD regulatory standard during the 3rd and 4th quarters of the reporting period. PAH analysis during the 4th quarter sampling event indicated no elevated concentrations above WQCC Drinking Water Standards during the reporting period.

Laboratory analytical results were compared to NMOCD regulatory limits based on the New Mexico groundwater standards found in section 20.6.2.3103 of the New Mexico Administrative Code.

SUMMARY

This report presents the results of monitoring activities for the 2008 annual monitoring period. Currently, there are eighteen groundwater monitor wells (MW-1 and MW-3 through MW-19) on-site. The most recent Groundwater Gradient Map, Figure 2D, indicates a general gradient of approximately 0.004 feet/foot to the south.

A measurable thickness of PSH was detected in monitor well MW-12 throughout the 2008 reporting period. The average PSH thickness reported in monitor well MW-12 during the reporting period was 1.42 feet. The maximum PSH thickness was 1.83 feet on April 17, 2008. All wells are currently sampled on a quarterly schedule.

During the reporting period approximately 74 gallons (1.8 barrels) of PSH was recovered from monitor well MW-12. Approximately 463 gallons (11 barrels) of PSH has been recovered by manual recovery since project inception.

Review of laboratory analytical results generated from analysis of the groundwater samples obtained during the 2008 monitoring period indicates the benzene concentrations were above the NMOCD regulatory standard in fifteen of the eighteen site monitor wells at least one of the four quarters of the reporting period.

Analytical results indicate benzene concentrations are fluctuating throughout the site monitor wells. Toluene, ethylbenzene and xylene concentrations are generally stable and are of relatively low magnitude. Groundwater samples from MW-12 exhibited elevated TPH concentrations for GRO and DRO. Analytical results on groundwater samples collected indicate PAH distributions mirrored those of BTEX distributions over the site.

ANTICIPATED ACTIONS

Groundwater monitoring and sampling along with PSH recovery efforts will continue in 2009. An Annual Monitoring Report will be submitted to the NMOCD before April 1, 2009. Plains anticipates completing the soil remediation around monitor well MW-12 in 2009.

LIMITATIONS

NOVA has prepared this Annual Monitoring Report to the best of its ability. No other warranty, expressed or implied, is made or intended.

NOVA has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. NOVA has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. NOVA has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. NOVA also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of Plains. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of NOVA and/or Plains.

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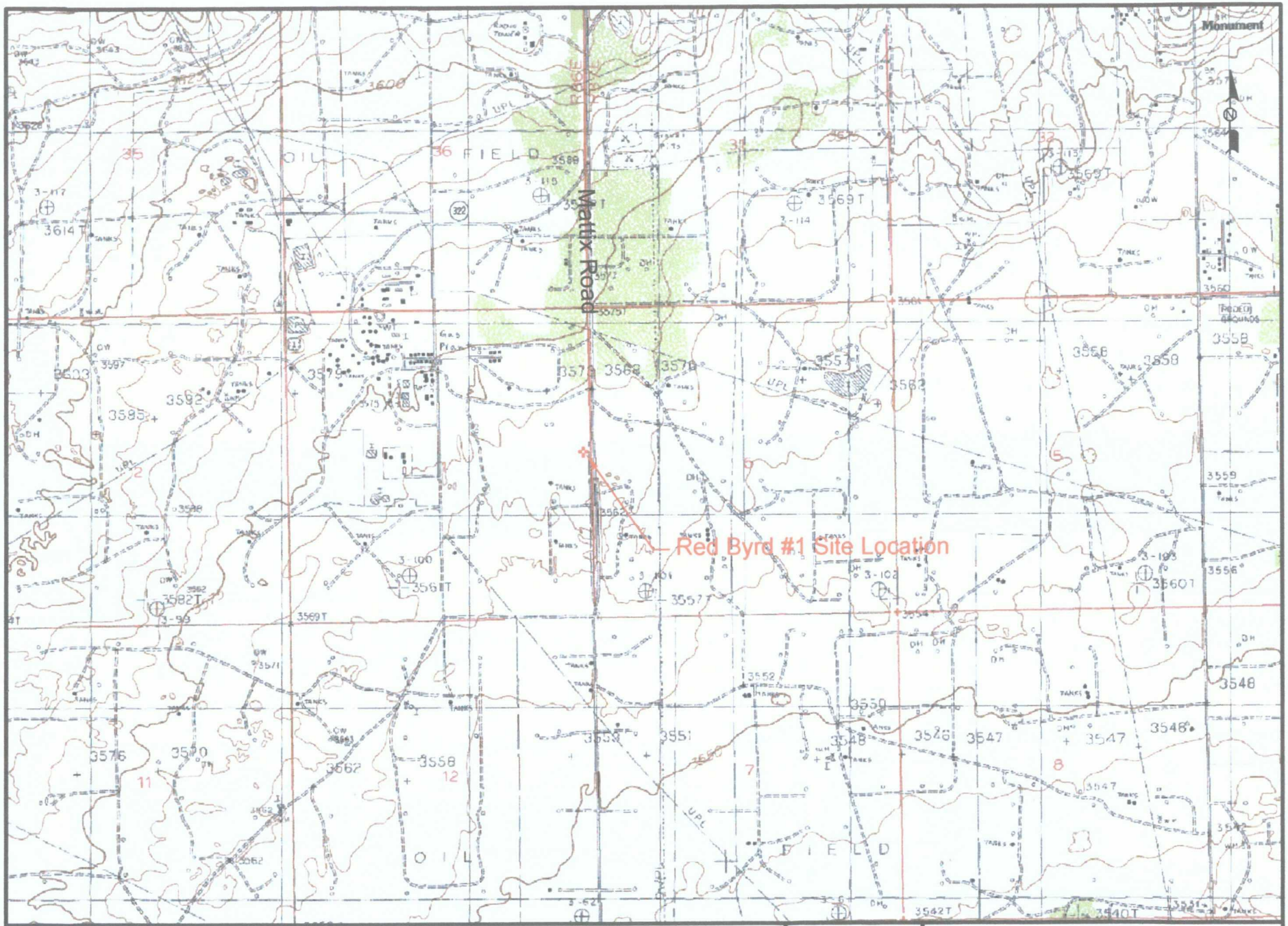


Figure 1
Site Location Map

Plains Marketing, L.P.
Red Byrd No. 1
Lea County, NM

NMOCD Reference #1R-0085

NOVA Safety and Environmental

SE1/4 NE1/4 Sec 1 T20S R36E		32° 36' 09.2"N 103° 17' 56.9"
Scale: NTS	Prep By: RKR	Checked By: TKC
		September 4, 2008

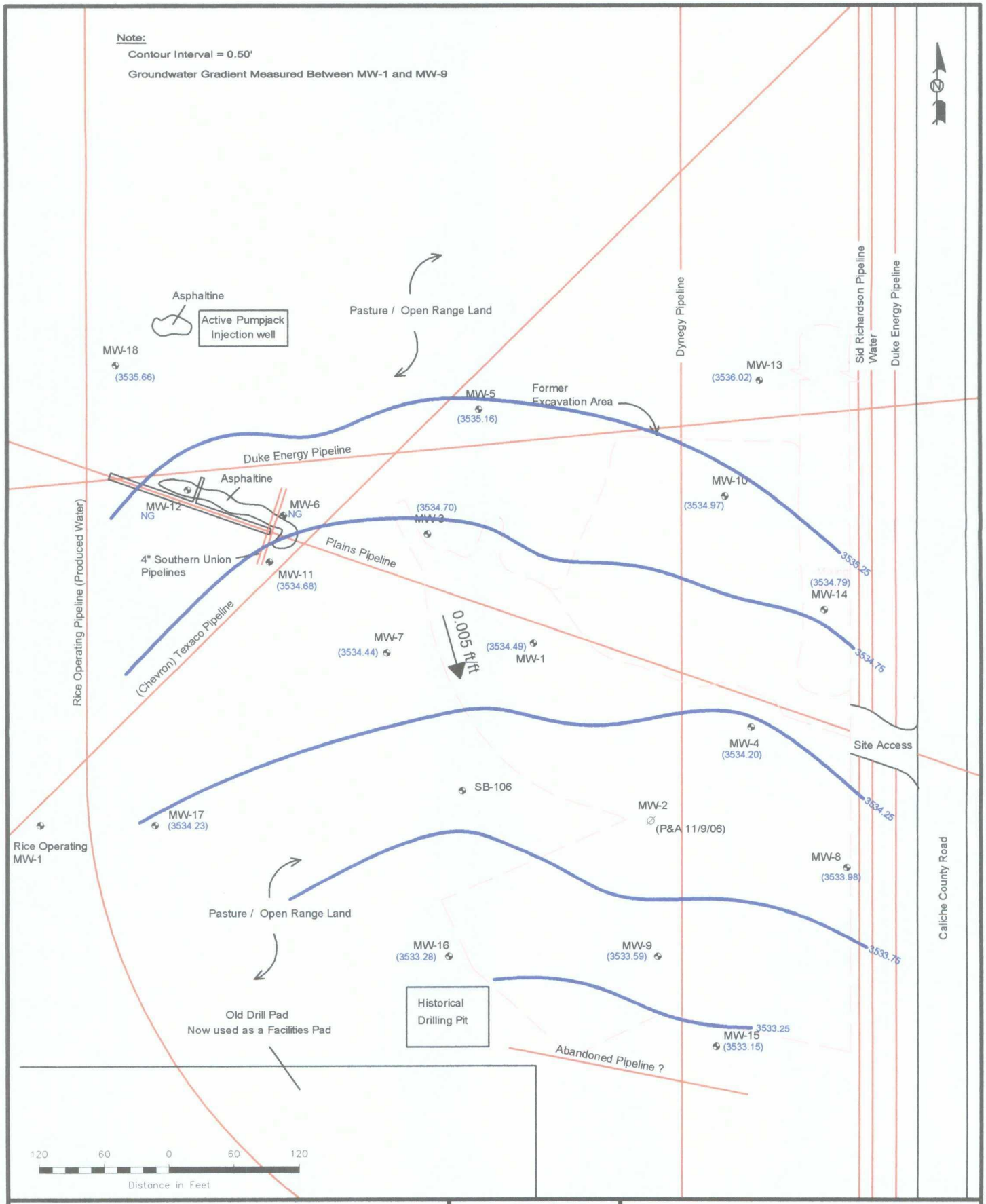
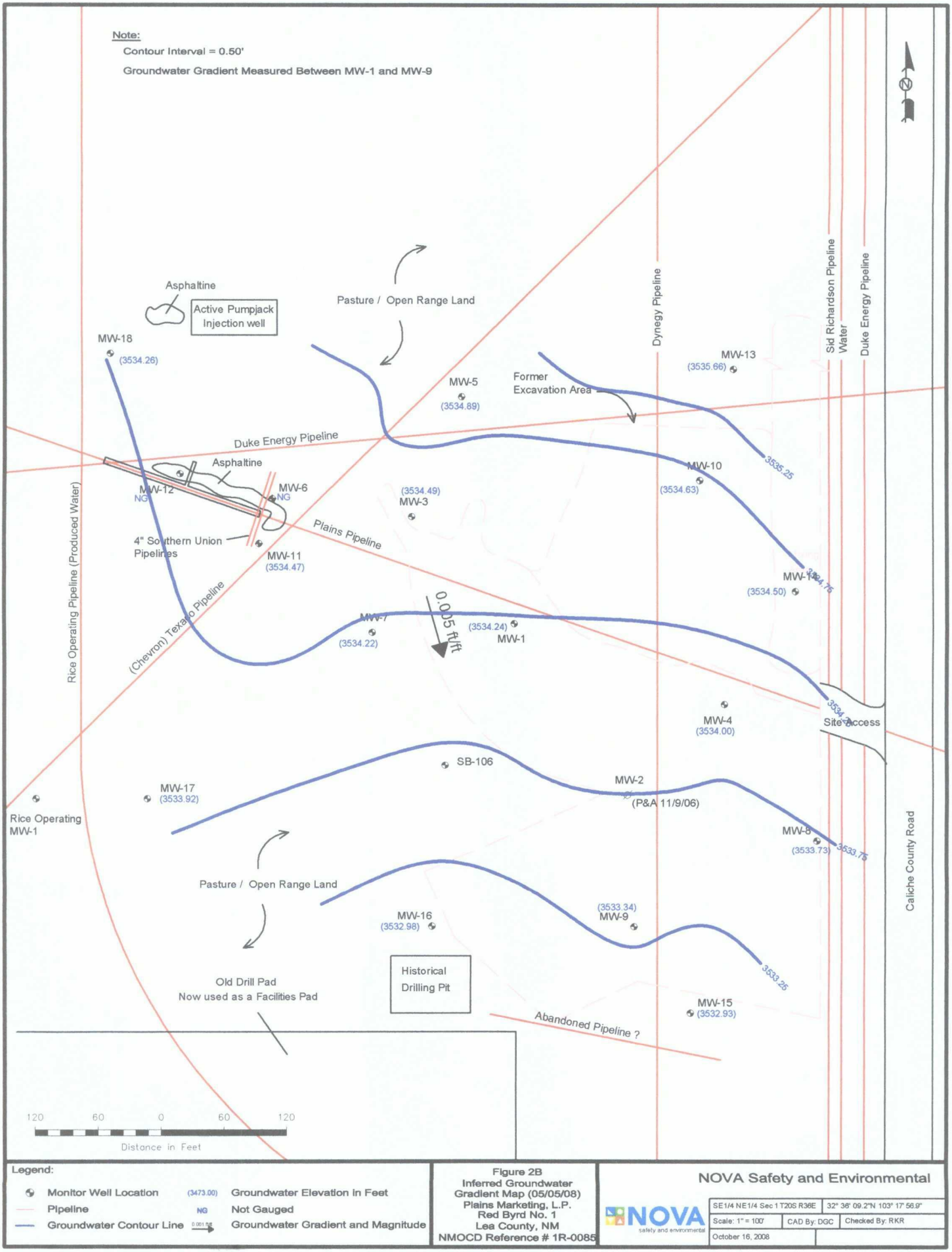


Figure 2A
Inferred Groundwater Gradient Map (02/05/08)
Plains Marketing, L.P.
Red Byrd No. 1
Lea County, NM
NMOCD Reference # 1R-0085

NOVA Safety and Environmental

SE1/4 NE1/4 Sec 1 T20S R36E		32° 36' 09.2"N 103° 17' 56.9"
Scale: 1" = 100'	CAD By: DGC	Checked By: RKR
October 16, 2008		



Legend:

- Monitor Well Location (3473.00) Groundwater Elevation in Feet
- Pipeline NG Not Gauged
- Groundwater Contour Line 0.001 ft/ft Groundwater Gradient and Magnitude

Figure 2B
Inferred Groundwater Gradient Map (05/05/08)
Plains Marketing, L.P.
Red Byrd No. 1
Lea County, NM
NMOCD Reference # 1R-0085

NOVA Safety and Environmental

NOVA safety and environmental

SE1/4 NE1/4 Sec 1 T20S R36E	32° 36' 09.2"N 103° 17' 56.9"	
Scale: 1" = 100'	CAD By: DGC	Checked By: RKR
October 16, 2008		

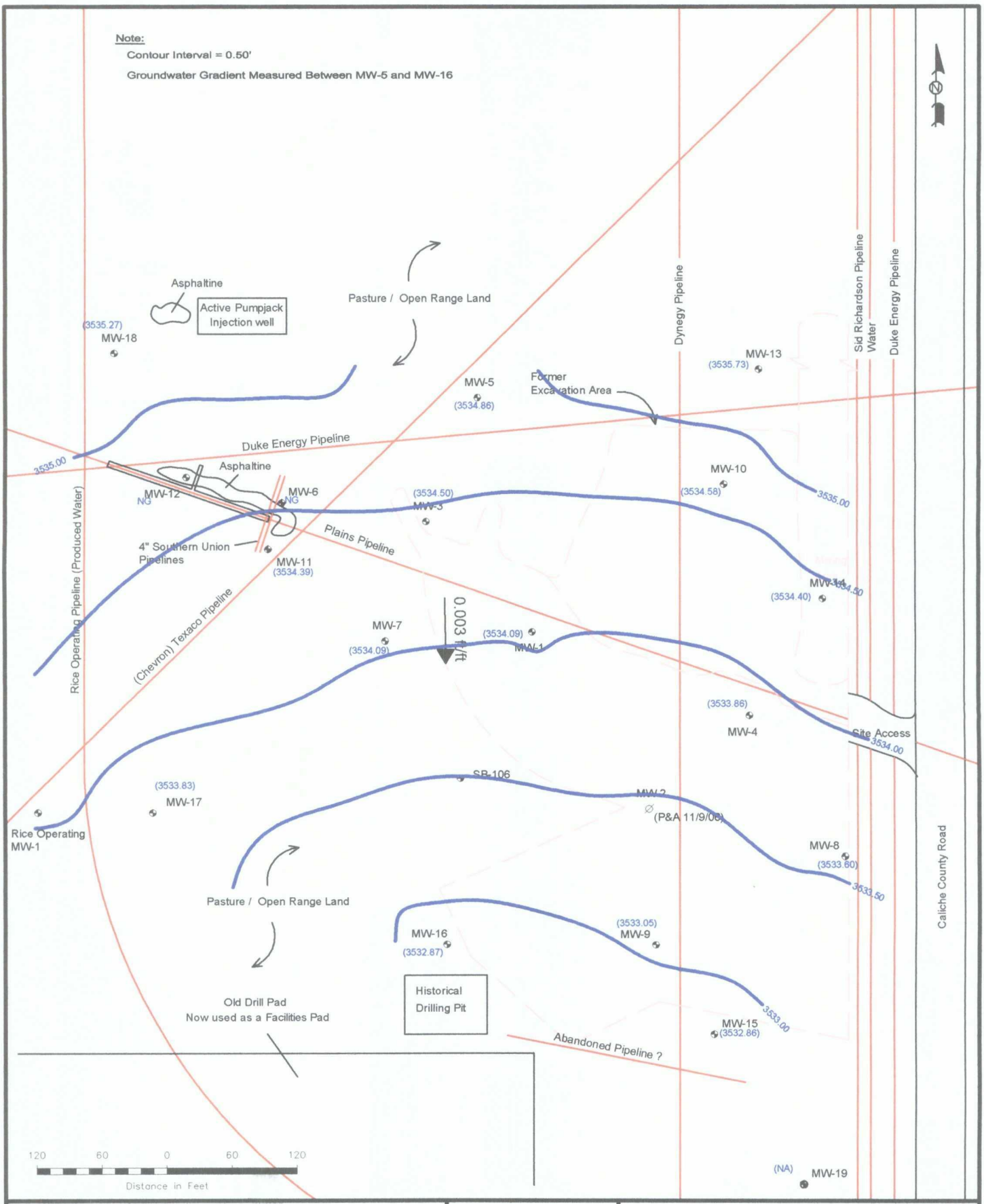


Figure 2C
Inferred Groundwater Gradient Map (08/04/08)
Plains Marketing, L.P.
Red Byrd No. 1
Lea County, NM
NMOCD Reference # 1R-0085

NOVA Safety and Environmental

SE1/4 NE1/4 Sec 1 T20S R36E	32° 36' 09.2"N 103° 17' 56.9"	
Scale: 1" = 100'	CAD By: DGC	Checked By: RKR
October 16, 2008		

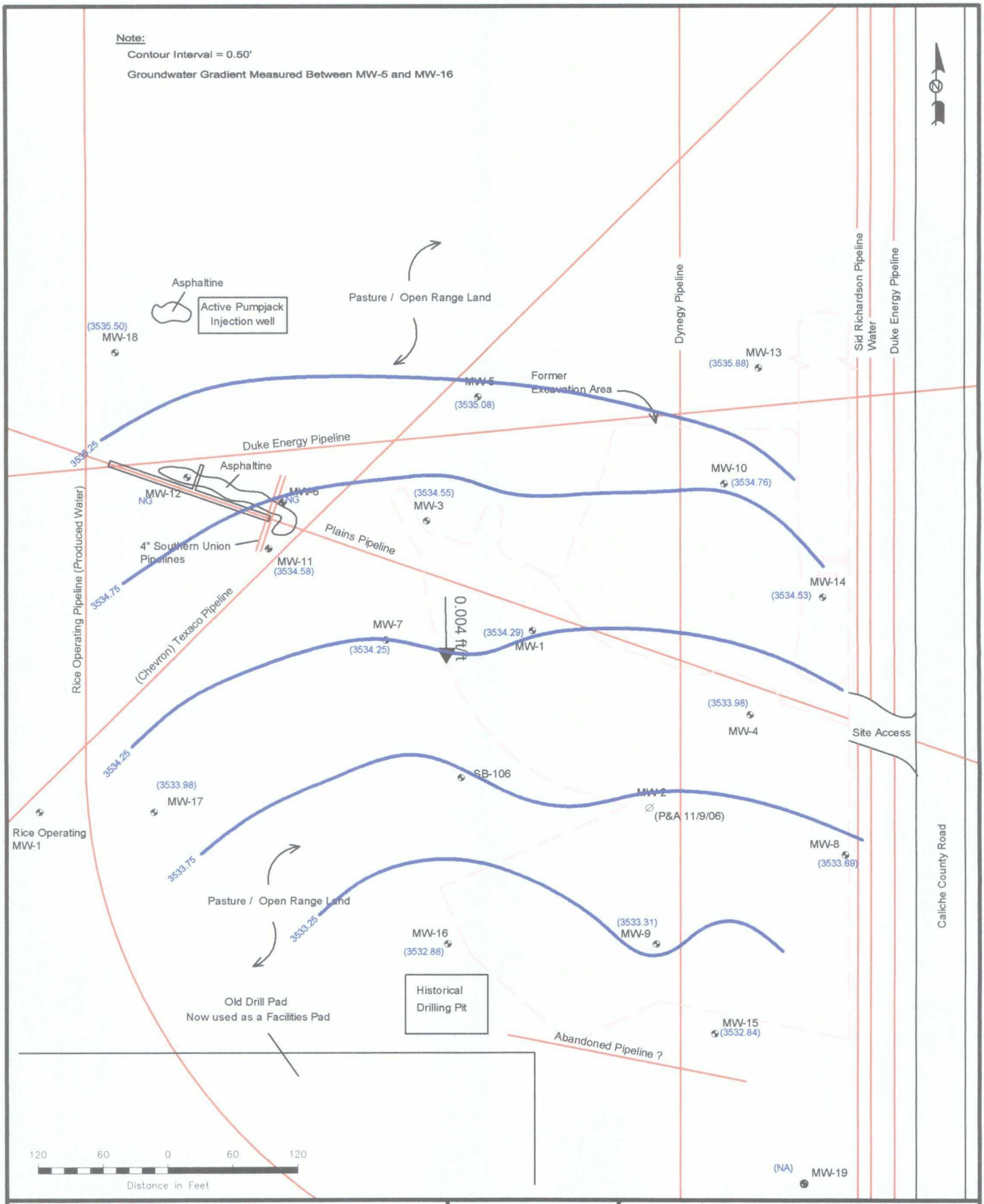
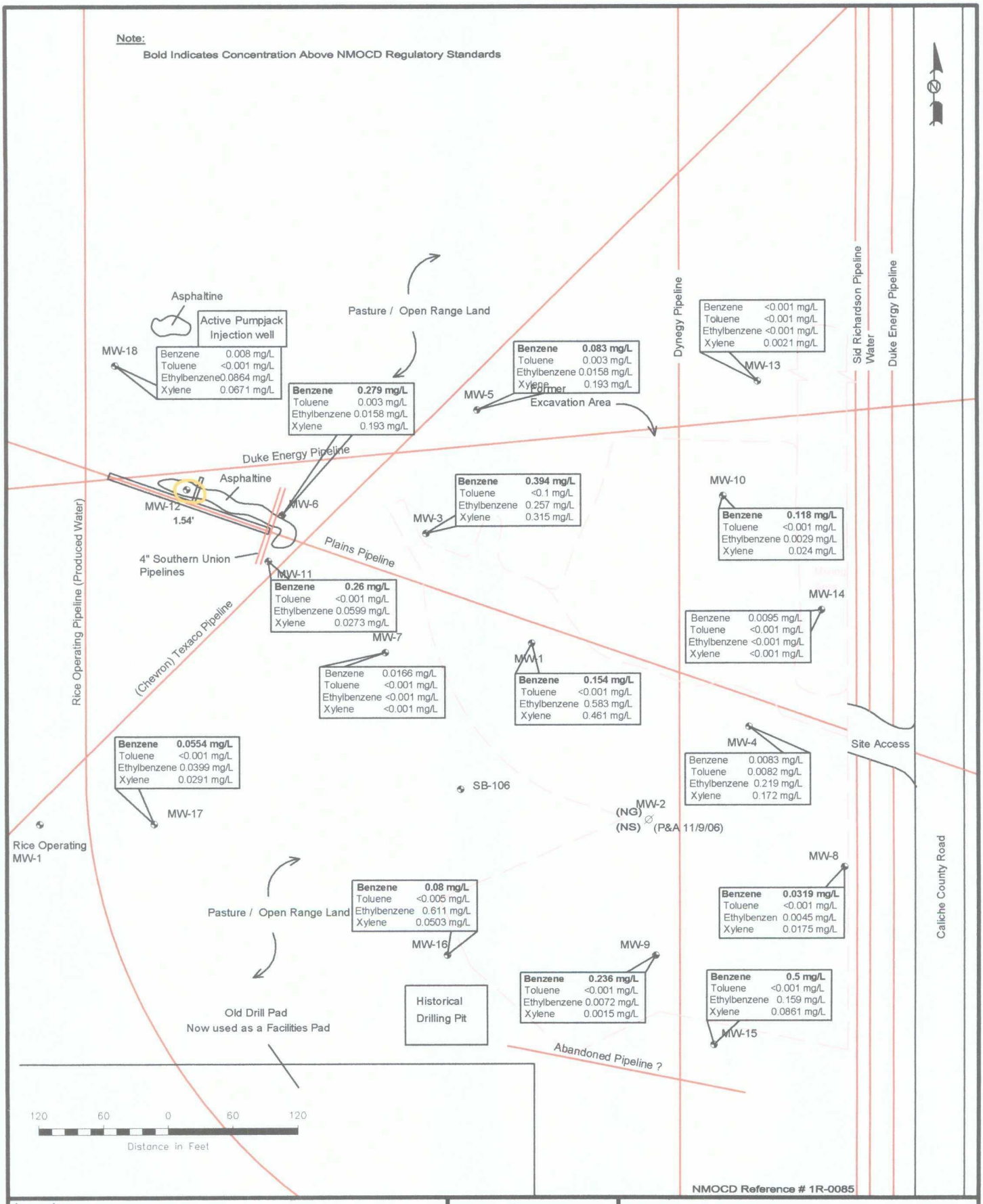


Figure 2D
Inferred Groundwater Gradient Map (11/03/08)
Plains Marketing, L.P.
Red Byrd No. 1
Lea County, NM
NMOCD Reference # 1R-0085

NOVA Safety and Environmental

SE1/4 NE1/4 Sec 1 T20S R36E	32° 36' 09.2"N 103° 17' 56.9"	
Scale: 1" = 100'	CAD By: DGC	Checked By: RKR
December 3, 2008		

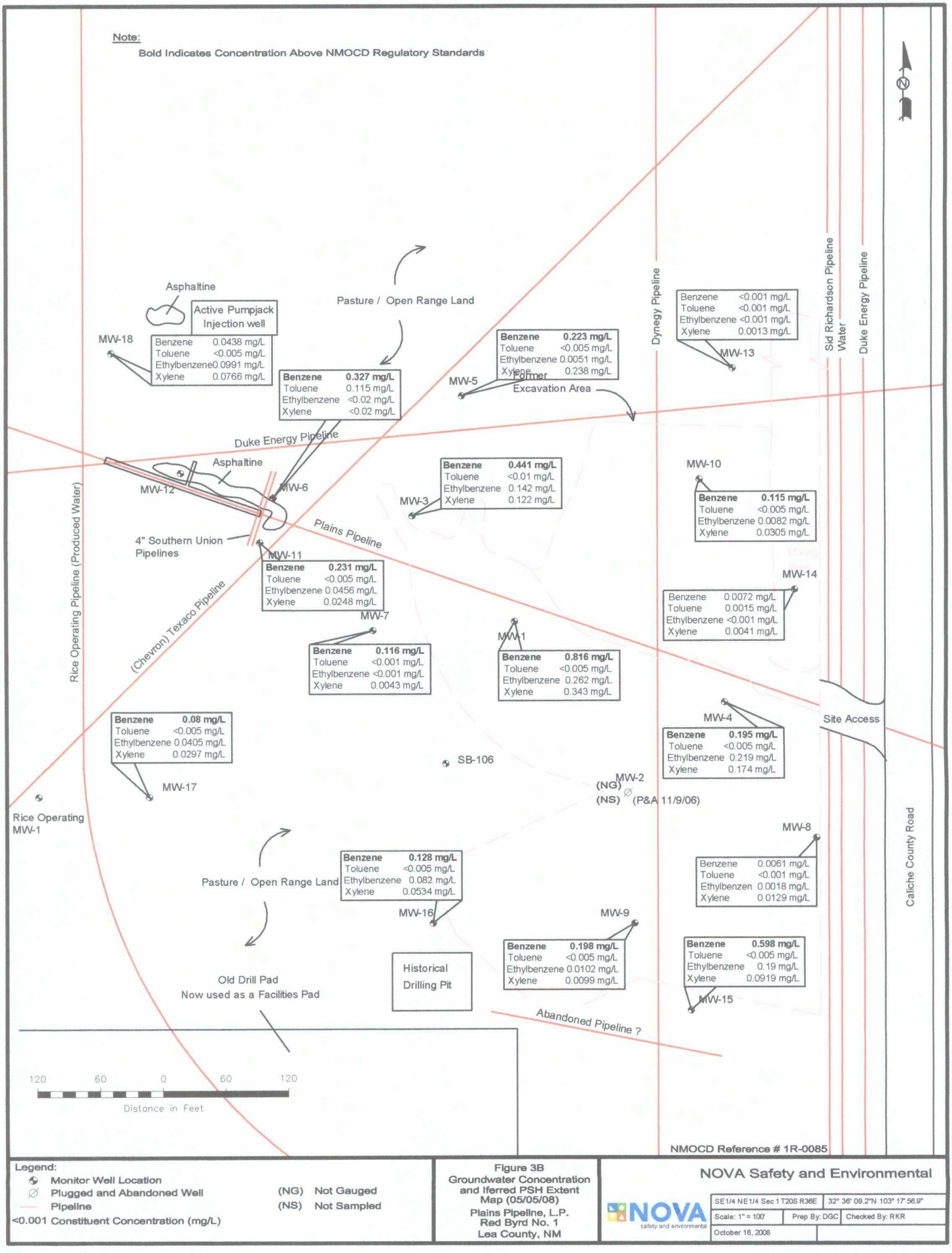


Legend:
- Monitor Well Location
- Plugged and Abandoned Well
- Pipeline
- <0.001 Constituent Concentration (mg/L)
- (NG) Not Gauged
- (NS) Not Sampled

Figure 3A
Groundwater Concentration and Iferred PSH Extent Map (02/05/08)
Plains Pipeline, L.P.
Red Byrd No. 1
Lea County, NM

NOVA Safety and Environmental

SE1/4 NE1/4 Sec 1 T20S R36E	32° 36' 09.2"N 103° 17' 56.9"	
Scale: 1" = 100'	Prep By: DGC	Checked By: RKR
October 16, 2008		

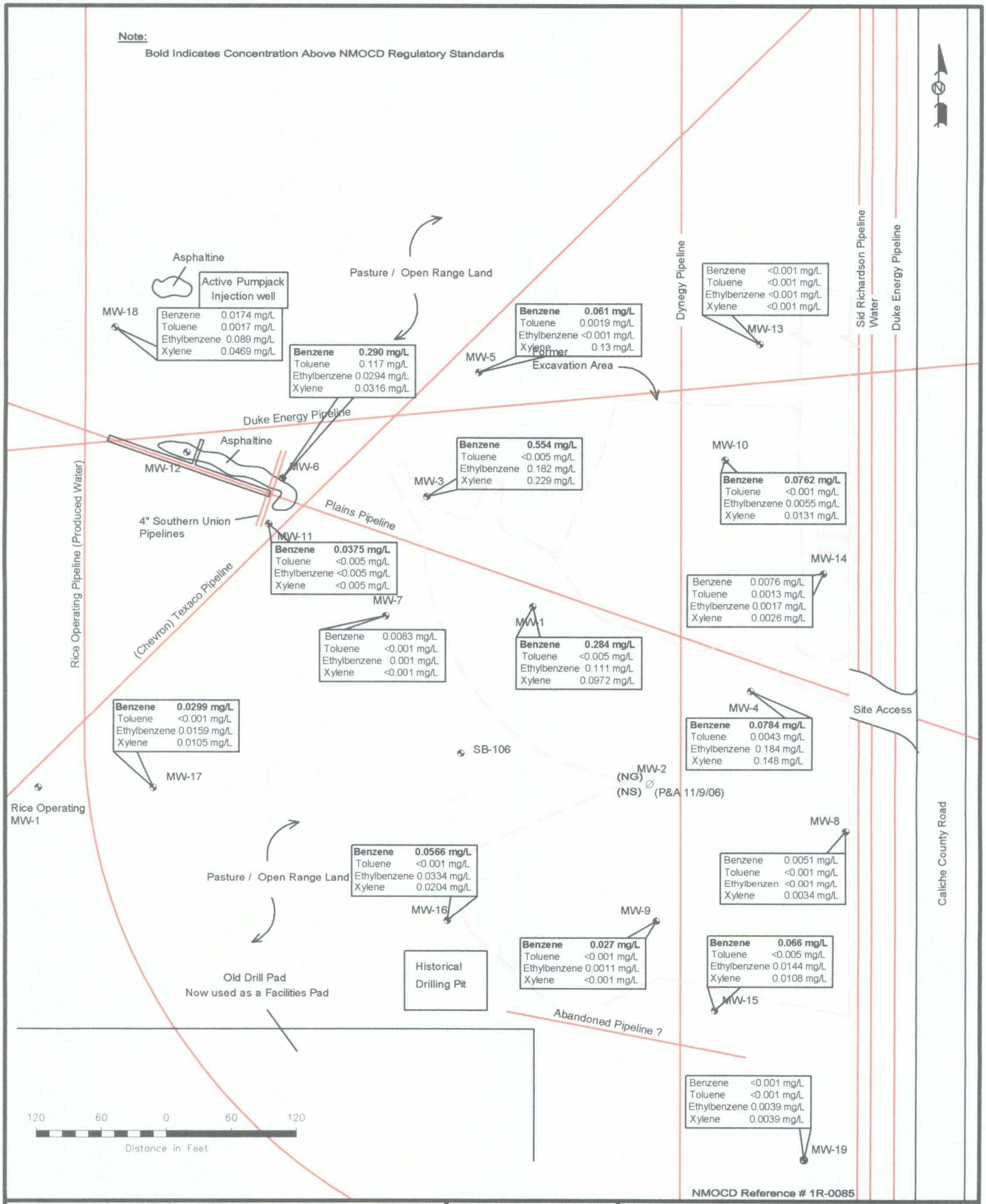


Legend:
- Monitor Well Location
- Plugged and Abandoned Well
- Pipeline
- <0.001 Constituent Concentration (mg/L)
- (NG) Not Gauged
- (NS) Not Sampled

Figure 3B
Groundwater Concentration and Iferred PSH Extent Map (05/05/08)
Plains Pipeline, L.P.
Red Byrd No. 1
Lea County, NM

NOVA Safety and Environmental

SE1/4 NE1/4 Sec 1 T20S R36E	32° 36' 09.2"N 103° 17' 56.9"	
Scale: 1" = 100'	Prep By: DGC	Checked By: RKR
October 16, 2008		

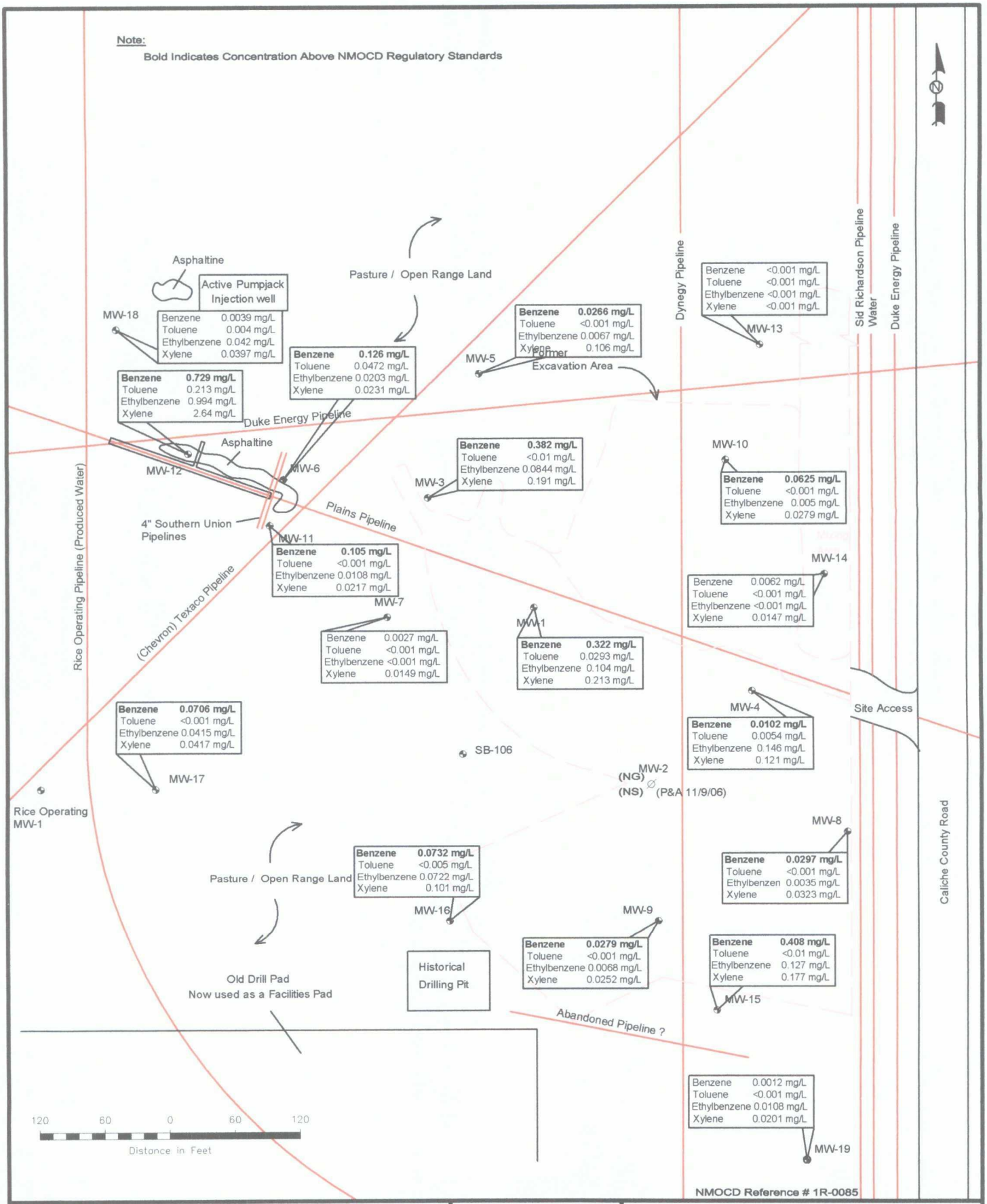


Legend:
- Monitor Well Location
- Plugged and Abandoned Well
- Pipeline
- <0.001 Constituent Concentration (mg/L)
- (NG) Not Gauged
- (NS) Not Sampled

Figure 3C
Groundwater Concentration and Iferred PSH Extent Map (08/04/08)
Plains Pipeline, L.P.
Red Byrd No. 1
Lea County, NM

NOVA Safety and Environmental

SE1/4 NE1/4 Sec 1 T20S R36E	32° 36' 09.2"N 103° 17' 56.9"	
Scale: 1" = 100'	Prep By: DGC	Checked By: RKR
October 16, 2008		



Legend:
- Monitor Well Location
- Plugged and Abandoned Well
- Pipeline
- <0.001 Constituent Concentration (mg/L)
- (NG) Not Gauged
- (NS) Not Sampled

Figure 3D
Groundwater Concentration and Iferred PSH Extent Map (11/03/08)
Plains Pipeline, L.P.
Red Byrd No. 1
Lea County, NM

NOVA Safety and Environmental

SE1/4 NE1/4 Sec 1 T20S R36E	32° 36' 09.2"N 103° 17' 56.9"	
Scale: 1" = 100'	Prep By: DGC	Checked By: RKR
October 16, 2008		

Tables

TABLE 1

2008 GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
RED BYRD #1
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0085

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW-1	*02/05/08*	3,567.59	-	33.10	0.00	3,534.49
MW-1	*05/05/08*	3,567.59	-	33.35	0.00	3,534.24
MW-1	*08/04/08*	3,567.59	-	33.50	0.00	3,534.09
MW-1	*11/03/08*	3,567.59	-	33.30	0.00	3,534.29
MW-3	*02/05/08*	3,567.55	-	32.85	0.00	3,534.70
MW-3	*05/05/08*	3,567.55	-	33.06	0.00	3,534.49
MW-3	*08/04/08*	3,567.55	-	37.18	0.00	3,530.37
MW-3	*11/03/08*	3,567.55	-	33.00	0.00	3,534.55
MW-4	05/15/00	3,567.80	-	36.34	0.00	3,531.46
MW-4	*02/05/08*	3,567.80	-	33.60	0.00	3,534.20
MW-4	*05/05/08*	3,567.80	-	33.80	0.00	3,534.00
MW-4	*08/04/08*	3,567.80	-	33.94	0.00	3,533.86
MW-4	*11/03/08*	3,567.80	-	33.82	0.00	3,533.98
MW-5	*02/05/08*	3,569.50	-	34.34	0.00	3,535.16
MW-5	*05/05/08*	3,569.50	-	34.61	0.00	3,534.89
MW-5	*08/04/08*	3,569.50	-	34.64	0.00	3,534.86
MW-5	*11/03/08*	3,569.50	-	34.42	0.00	3,535.08
MW-6	*02/05/08*		-	19.79	0.00	0.00
MW-6	*05/05/08*		-	20.06	0.00	0.00
MW-6	*08/04/08*		-	20.14	0.00	0.00
MW-6	*11/03/08*		-	19.95	0.00	0.00
MW-7	*02/05/08*	3,567.53	-	33.09	0.00	3534.44
MW-7	*05/05/08*	3,567.53	-	33.31	0.00	3534.22
MW-7	*08/04/08*	3,567.53	-	33.44	0.00	3534.09
MW-7	*11/03/08*	3,567.53	-	33.28	0.00	3534.25
MW-8	*02/05/08*	3,567.79	-	33.81	0.00	3,533.98
MW-8	*05/05/08*	3,567.79	-	34.06	0.00	3,533.73
MW-8	*08/04/08*	3,567.79	-	34.19	0.00	3,533.60
MW-8	*11/03/08*	3,567.79	-	34.10	0.00	3,533.69
MW-9	*02/05/08*	3,568.62	-	35.23	0.00	3,533.39
MW-9	*05/05/08*	3,568.62	-	35.48	0.00	3,533.14
MW-9	*08/04/08*	3,568.62	-	35.57	0.00	3,533.05
MW-9	*11/03/08*	3,568.62	-	35.51	0.00	3,533.11
MW-10	*02/05/08*	3,570.11	-	35.14	0.00	3,534.97
MW-10	*05/05/08*	3,570.11	-	35.48	0.00	3,534.63
MW-10	*08/04/08*	3,570.11	-	35.53	0.00	3,534.58
MW-10	*11/03/08*	3,570.11	-	35.35	0.00	3,534.76

TABLE 1

2008 GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
RED BYRD #1
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0085

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW-11	*02/05/08*	3,567.96	-	33.28	0.00	3,534.68
MW-11	*05/05/08*	3,567.96	-	33.49	0.00	3,534.47
MW-11	*08/04/08*	3,567.96	-	33.57	0.00	3,534.39
MW-11	*11/03/08*	3,567.96	-	33.38	0.00	3,534.58
MW-12	01/11/08	Excavated around and cut down MW-12			--	--
MW-12	02/15/08		19.32	20.86	1.54	--
MW-12	02/21/08		19.33	20.57	1.24	--
MW-12	02/29/08		19.40	20.79	1.39	--
MW-12	03/14/08		19.33	21.03	1.7	--
MW-12	03/20/08		19.39	21.14	1.75	--
MW-12	04/04/08		19.44	21.24	1.8	--
MW-12	04/10/08		19.46	20.96	1.5	--
MW-12	04/17/08		19.45	21.28	1.83	--
MW-12	05/01/08		19.50	20.98	1.48	--
MW-12	05/08/08		19.53	21.09	1.56	--
MW-12	05/15/08		19.60	21.11	1.51	--
MW-12	05/20/08		19.62	20.98	1.36	--
MW-12	06/05/08		19.68	21.16	1.48	--
MW-12	06/17/08		19.74	21.38	1.64	--
MW-12	06/25/08		19.77	21.36	1.59	--
MW-12	07/03/08		19.70	21.37	1.67	--
MW-12	07/14/08		19.65	21.16	1.51	--
MW-12	07/23/08		19.66	20.94	1.28	--
MW-12	08/11/08		19.59	21.27	1.68	--
MW-12	08/18/08		19.62	20.96	1.34	--
MW-12	09/18/08		19.43	21.19	1.76	--
MW-12	09/25/08		19.52	20.62	1.1	--
MW-12	10/08/08		19.5	20.43	0.93	--
MW-12	10/22/08		19.43	20.22	0.79	--
MW-12	10/28/08		19.44	20.3	0.86	--
MW-12	*11/03/08*		19.51	21.34	1.83	--
MW-12	11/07/08		19.41	20.37	0.96	--
MW-12	11/14/08		19.58	20.51	0.93	--
MW-12	11/21/08		19.48	20.48	1.00	--
MW-12	11/26/08		19.69	20.71	1.76	--
MW-13	*02/05/08*	3,571.78	-	35.76	0.00	3,536.02
MW-13	*05/05/08*	3,571.78	-	36.12	0.00	3,535.66
MW-13	*08/04/08*	3,571.78	-	36.05	0.00	3,535.73
MW-13	*11/03/08*	3,571.78	-	35.90	0.00	3,535.88
MW-14	*02/05/08*	3,571.69	-	36.90	0.00	3,534.79
MW-14	*05/05/08*	3,571.69	-	37.19	0.00	3,534.50
MW-14	*08/04/08*	3,571.69	-	37.29	0.00	3,534.40
MW-14	*11/03/08*	3,571.69	-	37.16	0.00	3,534.53

TABLE 1

2008 GROUNDWATER ELEVATION DATA

PLAINS MARKETING, L.P.
RED BYRD #1
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0085

WELL NUMBER	DATE MEASURED	TOP OF CASING ELEVATION	DEPTH TO PRODUCT	DEPTH TO WATER	PSH THICKNESS	CORRECTED GROUND WATER ELEVATION
MW-15	*02/05/08*	3,569.33	-	36.18	0.00	3,533.15
MW-15	*05/05/08*	3,569.33	-	36.40	0.00	3,532.93
MW-15	*08/04/08*	3,569.33	-	36.47	0.00	3,532.86
MW-15	*11/03/08*	3,569.33	-	36.49	0.00	3,532.84
MW-16	*02/05/08*	3,568.89	-	35.61	0.00	3,533.28
MW-16	*05/05/08*	3,568.89	-	35.91	0.00	3,532.98
MW-16	*08/04/08*	3,568.89	-	36.02	0.00	3,532.87
MW-16	*11/03/08*	3,568.89	-	36.01	0.00	3,532.88
MW-17	*02/05/08*	3,569.66	-	35.43	0.00	3,534.23
MW-17	*05/05/08*	3,569.66	-	35.74	0.00	3,533.92
MW-17	*08/04/08*	3,569.66	-	35.83	0.00	3,533.83
MW-17	*11/03/08*	3,569.66	-	35.68	0.00	3,533.98
MW-18	*02/05/08*	3,571.17	-	35.51	0.00	3,535.66
MW-18	*05/05/08*	3,571.17	-	36.91	0.00	3,534.26
MW-18	*08/04/08*	3,571.17	-	35.90	0.00	3,535.27
MW-18	*11/03/08*	3,571.17	-	35.67	0.00	3,535.50
MW-19	*08/04/08*		-	37.82	0.00	0.00
MW-19	*08/26/08*		-	37.84	0.00	0.00
MW-19	*11/03/08*		-	37.79	0.00	0.00

Elevations based on the North American Vertical Datum of 1929.
** Complete Historical Tables Provided an the Attached CD.*

TABLE 2

2008 CONCENTRATIONS OF BTEX AND TPH IN GROUNDWATER

PLAINS MARKETING, L.P.
RED BYRD #1
LEA COUNTY, NM
NMOCD REFERENCE NUMBER 1R-0085

All Concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	EPA SW 846-8015M		SW 846-8012B,5030				
		GRO C6-C12 mg/L	DRO C12-C35 mg/L	BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD REGULATORY LIMIT				**0.010**	**0.750**	**0.750**	**0.62**	
MW - 1	*02/05/08*			**0.1540**	<0.001	0.5830	0.4610	
	05/05/08			**0.8160**	<0.005	0.2620	0.3430	
	08/04/08			**0.2840**	<0.005	0.1110	0.0972	
	11/03/08			**0.3220**	0.02930	0.1040	0.2130	
MW-3	*02/05/08*			**0.3940**	<0.100	0.2570	0.315	
	05/05/08			**0.4410**	<0.0100	0.1420	0.122	
	08/04/08			**0.5540**	<0.005	0.1820	0.229	
	11/03/08			**0.3820**	<0.0100	0.0844	0.191	
MW - 4	*02/05/08*			0.0083	0.00820	0.2190	0.172	
	05/05/08			**0.1950**	<0.005	0.2190	0.174	
	08/04/08			**0.0784**	0.00430	0.1840	0.148	
	11/03/08			**0.0102**	0.00540	0.1460	0.121	
MW - 5	*02/05/08*			**0.0825**	0.00300	0.0158	0.193	
	05/05/08			**0.2230**	<0.005	0.0051	0.2380	
	08/04/08			**0.0610**	0.00190	<0.001	0.1300	
	11/03/08			**0.0266**	<0.001	0.0067	0.1060	
MW - 6	*02/05/08*			**0.2790**	0.00300	0.0158	0.1930	
	05/05/08			**0.3270**	0.11500	<0.02	<0.020	
	08/04/08			**0.2900**	0.11700	0.0294	0.0316	
	11/03/08			**0.1260**	0.04720	0.0203	0.0231	
MW - 7	*02/05/08*			**0.0166**	<0.001	<0.001	<0.001	
	05/05/08			**0.1160**	<0.001	<0.001	0.0043	
	08/04/08			0.0083	<0.001	0.0010	<0.001	
	11/03/08			0.0027	<0.001	<0.0010	0.0149	
MW-8	*02/05/08*			**0.0319**	<0.001	0.0045	0.0175	
	05/05/08			0.0061	<0.001	0.0018	0.0129	
	08/04/08			0.0051	<0.001	<0.001	0.0034	
	11/03/08			**0.0297**	<0.001	0.0035	0.0323	
MW-9	*02/05/08*			**0.2360**	<0.001	0.0072	0.0015	
	05/05/08			**0.1980**	<0.005	0.0102	0.0099	
	08/04/08			**0.0270**	<0.001	0.0011	<0.001	
	11/03/08			**0.2790**	<0.001	0.0068	0.0252	
MW-10	*02/05/08*			**0.1180**	<0.001	0.0029	0.0240	
	05/05/08			**0.1150**	<0.005	0.0082	0.0305	
	08/04/08			**0.0762**	<0.001	0.0055	0.0131	
	11/03/08			**0.0625**	<0.001	0.0050	0.0279	

TABLE 2

2008 CONCENTRATIONS OF BTEX AND TPH IN GROUNDWATER

PLAINS MARKETING, L.P.
RED BYRD #1
LEA COUNTY, NM
NMOCD REFERENCE NUMBER 1R-0085

All Concentrations are reported in mg/L.

SAMPLE LOCATION	SAMPLE DATE	EPA SW 846-8015M		SW 846-8012B,5030				
		GRO C6-C12 mg/L	DRO C12-C35 mg/L	BENZENE	TOLUENE	ETHYL-BENZENE	m, p - XYLENES	o - XYLENE
NMOCD REGULATORY LIMIT				**0.010**	**0.750**	**0.750**	**0.62**	
MW-11	*02/05/08*			**0.2600**	<0.001	0.0599	0.0273	
	05/05/08			**0.2310**	<0.005	0.0456	0.0248	
	08/04/08			**0.0375**	<0.005	<0.005	<0.005	
	11/03/08			**0.1050**	<0.001	0.0108	0.0217	
MW-12	*02/05/08*			Not Sampled Due to PSH in Well				
	05/05/08			Not Sampled Due to PSH in Well				
	08/04/08			Not Sampled Due to PSH in Well				
	11/03/08	**56.0**	**893**	**0.7290**	0.2130	**0.9940**	**2.640**	
MW-13	*02/05/08*			<0.001	<0.001	<0.001	0.0021	
	05/05/08			<0.001	<0.001	<0.001	0.0013	
	08/04/08			<0.001	<0.001	<0.001	<0.001	
	11/03/08			<0.001	<0.001	<0.001	<0.001	
MW-14	*02/05/08*			0.0095	<0.001	<0.001	<0.001	
	05/05/08			0.0072	0.00150	<0.001	0.0041	
	08/04/08			0.0076	0.00130	0.0017	0.0026	
	11/03/08			0.0062	<0.0010	<0.0010	0.0147	
MW-15	*02/05/08*			**0.5000**	<0.001	0.1590	0.0861	
	05/05/08			**0.5980**	<0.005	0.1900	0.0919	
	08/04/08			**0.0660**	<0.005	0.0144	0.0108	
	11/03/08			**0.4080**	<0.0100	0.1270	0.1770	
MW-16	*02/05/08*			**0.0796**	<0.005	0.6110	0.0503	
	05/05/08			**0.1280**	<0.005	0.0824	0.0534	
	08/04/08			**0.0566**	<0.001	0.0334	0.0204	
	11/03/08			**0.0732**	<0.005	0.0722	0.1010	
MW-17	*02/05/08*			**0.0554**	<0.001	0.0399	0.0291	
	05/05/08			**0.0800**	<0.005	0.0405	0.0297	
	08/04/08			**0.0299**	<0.001	0.0159	0.0105	
	11/03/08			**0.0706**	<0.001	0.0415	0.0417	
MW-18	*02/05/08*			0.0080	<0.001	0.0864	0.0671	
	05/05/08			**0.0438**	<0.005	0.0991	0.0766	
	08/04/08			**0.0174**	0.00170	0.0590	0.0469	
	11/03/08			0.0039	0.00400	0.0420	0.0397	
MW-19	*08/04/08*			<0.001	<0.001	0.0039	0.0039	
	08/22/08			<0.001	<0.001	0.0017	<0.001	
	11/03/08			0.0012	<0.001	0.0108	0.0201	

* *Complete Historical Tables Provided an the Attached CD.*

TABLE 3

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER - 2008

PLAINS MARKETING, L.P.
TNM RED BYRD # 1
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0085

All water concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW846-8270C, 3510																	
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno[1,2,3-cd]pyrene	Naphthalene	Phenanthrene	Pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.		—	—	—	**0.0001 mg/L**	**0.0007 mg/L**	**0.0002 mg/L**	—	**0.0002 mg/L**	**0.0002 mg/L**	**0.0003 mg/L**	—	—	**0.0004 mg/L**	**0.03 mg/L**	—	—	**0.03 mg/L**		—
MW-1	11/03/08	<0.000184	0.00459	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.000188	0.00452	<0.000184	<0.000184	0.0048	0.00106	**0.175**	<0.000184	0.0067
MW-3	11/03/08	<0.000184	<0.000184	<0.000184	**0.000337**	<0.000184	<0.000184	<0.000184	<0.000184	**0.00069**	<0.000184	0.00051	0.00888	<0.000184	0.013	0.00965	0.00185	**0.348**	0.0211	0.0123
MW-4	11/03/08	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	0.000367	0.0091	<0.000183	0.0203	0.0107	0.00212	**0.322**	**0.0718**	0.0114
MW-5	11/03/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	0.000363	0.00881	<0.000185	<0.000185	0.0104	0.00179	**0.302**	<0.000185	0.0115
MW-6	11/03/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.000329	0.000222	<0.000184	0.00424	<0.000184	0.00207
MW-7	11/03/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	0.00191
MW-8	11/03/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	0.000317	<0.000185	0.00562	<0.000185	0.00122
MW-9	11/03/08	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	<0.000185	0.000987	<0.000185	<0.000185	0.000784	<0.000185	0.0037	<0.000185	0.00232
MW-10	11/03/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.00095	<0.000184	<0.000184	0.000728	<0.000184	0.00423	<0.000184	0.00158
MW-11	11/03/08	<0.000211	<0.000211	<0.000211	<0.000211	<0.000211	<0.000211	<0.000211	<0.000211	<0.000211	<0.000211	<0.000211	<0.000211	<0.000211	0.000497	<0.000211	<0.000211	0.00158	0.000244	0.00139

TABLE 3

POLYNUCLEAR AROMATIC HYDROCARBON CONCENTRATIONS IN GROUNDWATER - 2008

PLAINS MARKETING, L.P.
TNM RED BYRD # 1
LEA COUNTY, NEW MEXICO
NMOCD REFERENCE NUMBER 1R-0085

All water concentrations are reported in mg/L

SAMPLE LOCATION	SAMPLE DATE	EPA SW846-8270C, 3510																	
		Acenaphthene	Acenaphthylene	Anthracene	Benzo[a]anthracene	Benzo[a]pyrene	Benzo[b]fluoranthene	Benzo[g,h,i]perylene	Benzo[k]fluoranthene	Chrysene	Dibenz[a,h]anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd)pyrene	Naphthalene	Phenanthrene	Pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Dibenzofuran
Maximum Contaminant Levels from NM WQCC Drinking water standards Sections 1-101.UU and 3-103.A.		–	–	–	**0.0001 mg/L**	**0.0007 mg/L**	**0.0002 mg/L**	–	**0.0002 mg/L**	**0.0002 mg/L**	**0.0003 mg/L**	–	–	**0.0004 mg/L**	**0.03 mg/L**	–	–	**0.03 mg/L**		–
MW-12	11/03/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.0245	<0.000184	**0.0414**	0.0382	<0.000184	**0.168**	**0.141**	0.0254
MW-13	11/03/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.000581	<0.000184	0.00107
MW-14	11/03/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.000323	<0.000184	0.00161	<0.000184	0.00161
MW-15	11/03/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.000874	<0.000184	<0.000184	0.000743	<0.000184	0.0164	<0.000184	0.00202
MW-16	11/03/08	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	0.00096	<0.000183	0.00196	0.00113	<0.000183	0.0147	0.00206	0.0029
MW-17	11/03/08	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	<0.000184	0.000626	0.00021	<0.000184	0.00336	0.000716	0.00231
MW-18	11/03/08	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	<0.000183	0.00136	<0.000183	0.00268	0.00148	0.000212	0.0224	0.00652	0.00406
MW-19	08/22/08	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
	11/03/08	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	<0.000187	0.00123	<0.000187	0.00103

Appendices

Appendix A
Release Notification and Corrective Action
(Form C-141)

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

x Initial Report ☐ Final Report

Name of Company	Plains Pipeline, LP	Contact:	Camille Reynolds
Address:	3705 E. Hwy 158, Midland, TX 79706	Telephone No.	505-441-0965
Facility Name:	Red Byrd # 1	Facility Type:	Steel Pipeline

Surface Owner:	Mineral Owner	Lease No.
Red Byrd		

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
H	1	20S	36E					Lea

Latitude 32° 36' 09.8" N **Longitude** 103° 17' 58.5" W

NATURE OF RELEASE

Type of Release: Crude Oil	Volume of Release: Unknown	Volume Recovered
Source of Release: Steel Pipeline	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? Yes ☐ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☐ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

Describe Area Affected and Cleanup Action Taken.*
NOTE: Texas-New Mexico Pipeline was the owner/operator of the pipeline system at the time of the release, initial response information is unavailable.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION	
Printed Name: Camille Reynolds	Approved by District Supervisor:	
Title: Remediation Coordinator	Approval Date:	Expiration Date:
E-mail Address: cjreynolds@paalp.com	Conditions of Approval:	Attached ☐
Date: 3/21/2005 Phone: (505)441-0965		

* Attach Additional Sheets If Necessary