

AP - 52

GW Mon. Wells
STAGE 1 & 2
REPORTS

DATE:
6-21-11



**2011 FIELD ACTIVITY REPORT
MONITOR WELL PLUGGING AND INSTALLATION
C.S. CAYLER
SECTION 6, TOWNSHIP 17 SOUTH, RANGE 37 EAST
LEA COUNTY, NEW MEXICO
PLAINS SRS #2002-10250
NMOCD REF. # AP-052**

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JUN 20 2011

Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

PREPARED FOR:

**PLAINS PIPELINE, L.P.
333 CLAY STREET
SUITE 1600
HOUSTON, TEXAS 77002**

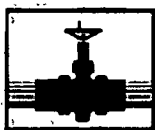
PREPARED BY:

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June 21, 2011



PLAINS
PIPELINE, L.P.

June 23, 2011

Mr. Edward Hansen
New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

RECEIVED

JUN 29 2011

Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, NM 87505

RE: Plains Pipeline, L.P. C. S. Cayler Release Site
NMOCD Reference # AP-052
Unit Letter B of Section 6, Township 17 South, Range 37 East
Lea County, New Mexico

Dear Mr. Hansen:

Plains Pipeline, L.P. is pleased to submit the attached Field Activity Report, dated June 21, 2011, for the C.S. Cayler release site located in Section 6 of Township 17 South, and Range 37 East of Lea County, New Mexico. This document summarizes the recent activities performed at the site related to the installation of monitor wells and the plugging and abandonment of monitor wells.

Should you have any questions or comments, please contact me at (575) 441-1099.

Sincerely,

Jason Henry
Remediation Coordinator
Plains Pipeline, L.P.

CC: Geoffrey R. Leking, NMOCD, Hobbs Office

Enclosure

2011 FIELD ACTIVITY REPORT MONITOR WELL PLUGGING AND INSTALLATION

**C.S. CAYLER
LEA COUNTY, NEW MEXICO
SRS #2002 - 10250
NMOCD REF. # AP-052**

**PLAINS PIPELINE, L.P.
333 CLAY STREET, SUITE 1600
HOUSTON, TEXAS**

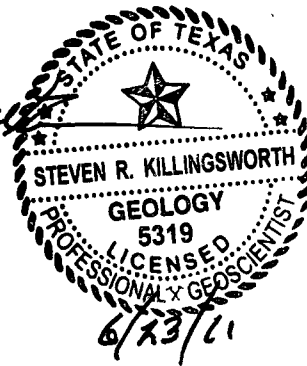
TALON/LPE PROJECT NO. 700376.049.01

Prepared by:

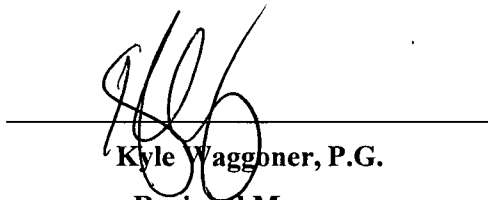


Steven R. Killingsworth, P.G.

Senior Project Manager



Reviewed by:



Kyle Waggoner, P.G.

Regional Manager

**TALON/LPE
2901 S. State Highway 349
Midland, Texas 79706**

May, 2011

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NMOCD - New Mexico Oil Conservation Division

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1.0 INTRODUCTION AND OBJECTIVES

1.1 Objectives and Site Background

The C.S. Cayler (site) is located approximately seven (7) miles southeast of Lovington, Lea County, New Mexico, on property owned by Robert C. Rice. There are no residences, groundwater supply wells, or surface water bodies within a 1,000-foot radius of the site. The initial release occurred from an EOTT Energy (EOTT) steel pipeline on September 19, 2002. Subsequently, EOTT changed its name to Link Energy in October 2003, and Plains Marketing, L.P. (Plains) purchased the assets of Link Energy on April 1, 2004. Initial reports estimated that 70 barrels (bbls) of crude oil were released. During site reconnaissance, it was observed that the ground surface beyond the current spill area had apparently been impacted by a prior spill or spills; however, the source(s) and date(s) of the spill are unknown. Based on available information, no crude oil was initially recovered at the release site.

The site is situated in a physiogeographic area that is on the extreme south-western portion of the Southern High Plains as it grades into the Edwards Plateau to the south and southeast and the Chihuahuan Desert of the Trans-Pecos Region to the southwest.

The topography proximal to the site is typical of the Southern High Plains, which is essentially flat with shallow depressions, or playa lakes, dotting the landscape. The prominent surface features on the Southern High Plains are the approximately 19,250 ephemeral playa lakes; however the density of the playa lakes diminishes toward the southern extent of the Southern High Plains. During periods of rainfall, the playas accumulate sheet runoff from watershed areas ranging in size from less than one square mile to several square miles. Only a small portion of drainage from rainfall occurs by streams. Playa lakes that collect storm water runoff can act as a recharge mechanism for groundwater.

The average elevation of the site area is approximately 3,810-feet above mean sea level with a slight slope to the southeast. The regional slope of the land surface in the Southern High Plains is approximately 100 feet per mile in a southeasterly direction.

On February 5, 2007, Talon/LPE (Talon) was retained by Plains to assume remediation activities at the site. Remediation activities at the site were previously conducted by Environmental Plus, Inc. (EPI).

1.2 Site Geology

The surface deposits in Lea County are composed of Blackwater Draw (Illinoian) sediments, Ogallala sediments and undivided Quaternary alluvium, which is also termed 'cover sands'. The soil in the upper two (2) feet at the site composed of gravelly loam that consists of 43% sand, 18% clay and 40% silt and also contains abundant eroded gravel to cobble size caliche fragments. Below the top soil is predominately unconsolidated sand to weakly cemented sandstone which has undergone calcification of varying extent.

Below the Blackwater Draw Formation is the Ogallala Formation of Miocene to Pliocene age. The Ogallala Formation was deposited from sediments eroded from the Southern Rockies and

consists mostly of eolian sediments, silty to very fine sand or loess. During the middle to late Miocene, the Ogallala was deposited by fluvial mechanism as paleovalley fill composed of gravelly to sandy braided stream deposits that trended west to east across the Southern High Plains. During the late Miocene the west to east drainage was diverted (captured) by the Pecos River. Subsequently, the Pecos River basin has experienced deflation, which facilitated eolian deposition on the Southern High Plains during the Pliocene.

1.3 Previous Monitor Well Installations

A total of twenty-three groundwater monitor wells have been installed at the Cayler site to date and three monitor wells have been plugged and abandoned (see Figure 1). With New Mexico Oil Conservation Division (NMOCD) approval and landowner concurrence, groundwater monitor well MW-1 was installed in October 2002, which was subsequently plugged in September 2008 due to the well being dry. Groundwater monitor wells MW-2, MW-3, MW-4, and MW-5 were installed from May to June 2004, and MW-6, MW-7, MW-8, MW-9, and MW-10 were installed in October 2004. Groundwater monitor wells MW-11, MW-12, MW-13, MW-14, MW-15, MW-16, and MW-17 were installed in February 2006, and MW-18 was installed in March 2008. Replacement monitor well MW-1A was installed in September 2008.

1.4 Physical Characteristics of the Water-Bearing Zone

The primary groundwater resource under the Southern High Plains, including the subject site, is referred to as the Ogallala Aquifer or High Plains Aquifer. The Southern portion of the Ogallala aquifer underlies an area of about 29,000 square miles (mi²) in western Texas and eastern New Mexico, encompassing all or part of 31 counties in Texas and six (6) counties in New Mexico.

The Ogallala Aquifer has experienced acute depletion from extensive irrigation and urban demand, which have exceeded the average annual recharge rate. Recharge of the Ogallala Aquifer on the Southern High Plains occurs predominately from rainfall runoff that accumulates in ephemeral streams and playa lakes as well as direct recharge in areas that contain permeable soils such as sand hills. Recharge rates vary depending on mechanism, but averages from 0 to 1.6 inches per year.

The Ogallala Aquifer is generally unconfined and the potentiometric surface generally mirrors the land surface elevation with the regional flow direction from the northwest to the southeast. The mean regional gradient is 15 feet per mile and the typical groundwater velocity averages seven (7) inches per day. The regional hydraulic conductivity averages 17 gallons per day per square-foot and specific yield averages 16%. The depth to groundwater at the site has historically ranged from 80 to 85 feet below ground surface (bgs) and the groundwater flow direction is to the southeast at an average of five (5) feet per mile. The saturated thickness of the Ogallala formation in the Lea County area ranges from 50 feet to 100 feet. The variable thickness is due to the irregularly eroded Triassic surface that underlies the Ogallala.

The composition of Ogallala groundwater is defined as mixed-cation-HCO₃, therefore, Ogallala groundwater is considered hard. Problems with scale have occurred with residential and commercial water systems that use Ogallala groundwater and often treatment strategies are employed to reduce the effects of scale. The typical total dissolved solids of Ogallala groundwater in the Hobbs-Lovington area is generally less than 500 mg/L (ppm) in areas not

impacted by oil-field brines. The pH of Ogallala water in the Lea County area averages 7.3.

2.0 SITE ACTIVITIES

The sections that follow summarize the installation procedures for the four (4) replacement monitor wells at the site (MW-2A, MW-7A, MW-8A, and MW-12A). Groundwater levels at the site have declined an average of 11 feet since groundwater measurements were first obtained in 2002. Monitor wells MW-7 has not detected groundwater since the gauging event on 9/21/10 and monitor well MW-8 has not detect groundwater since the gauging event on 6/10/09. Monitor well MW-2 measured a total depth (TD) of 88 feet below top of casing (btoc) and contained approximately five (5) ft of PSH and groundwater was not detected during the gauging event on 3/23/11. Monitor well MW-12 measured a TD of 90 feet btoc and the gauging event on 3/25/11 indicated approximately five (5) feet of PSH and groundwater at TD.

Gauging data for the four (4) newly installed monitor wells is located in Table 1 in Appendix B.

2.1 Monitor Well Installation

Monitor well installation was performed by Talon Drilling Co. under the supervision of Talon Geologists, John Franklin and Steven R. Killingsworth, P.G. Talon Drilling Co. is licensed (No. 1575) to operate in the State of New Mexico. Talon drilling and supervisory staff personnel are safety trained in accordance with 29 CFR-1910.120.

The four (4) replacement monitor wells (MW-2A, MW-7A, MW-8A, and MW-12A) were drilled using a truck mounted rotary drilling rig in accordance with New Mexico Administrative Code (NMAC) 19.27.4 and New Mexico Environmental Department (NMED) Groundwater Quality Bureau guidelines.

Each monitor well was constructed using four (4) inch, schedule 40 PVC casing from surface to TD including 30-ft of 0.010 slotted casing into the saturated section. A filter pack consisting of 8/16 graded silica sand was installed in the annulus between the casing and the formation from TD to above the top of well screen. The annulus was then filled from the top of the filter pack to approximately two (2) feet bgs with bentonite chips. After the bentonite seal was hydrated, the well annulus was topped with cement to the surface. A steel well vault was installed approximately three (3)-ft above ground to provide access to the monitor well for gauging and sample collection. State of New Mexico Well Reports are included in Appendix D with the boring logs. The locations of the four (4) replacement monitor wells are depicted on the site map located in Appendix A.

Monitor wells MW-7A and MW-8A were drilled on April 19 and 20, 2011 using air rotary drilling methods and an 8 ½-inch bit. Both wells were over drilled to 110-feet to ensure that casing could be set at the appropriate depth, which was specified at approximately 20-ft into the saturated section. Due to persistent formation slough in the saturated section, casing was set at 102.67-ft in monitor well MW-8A and 101.21-ft in monitor well MW-7A.

Monitor wells MW-2A and MW-12A were drilled on April 28, 2011 using mud rotary to a total depth of 110-ft bgs. Casing was set at 109.32-ft in monitor well MW-2A and 108.06-ft in monitor well MW-12A.

The well logs that portray the well construction details are found in Appendix D.

2.2 Soil Samples

Drill cuttings circulated to the surface were collected at appropriate intervals using a shovel and the samples were characterized in the field for physical properties in accordance with Unified Soil Classification System. The soil samples were also analyzed in the field for petroleum contaminants using a MiniRAE 2000 portable VOC monitor with a photo-ionization detector (PID) equipped with a 10.6 eV gas discharge lamp. The PID was calibrated prior to use with 100-ppm isobutylene. The results of the soil sample characterization are presented on the well boring logs in Appendix D.

Soil samples were collected for laboratory analyses from monitor wells MW-7A and MW-8A at 80-90-ft. The samples were placed in laboratory provided four (4) ounce soil jars, placed on ice in a cooler and transported to Trace Analysis laboratory in Midland Texas. The samples were analyzed for BTEX by EPA Method 8021 and TPH by EPA Method 418.1. Soil sample analytical results are summarized on Table 2 in Appendix B.

Soil samples were not collected for laboratory analysis from monitor wells MW-2A and MW-12A because those wells were drilled with gelled water and the samples were of poor quality.

By comparison, analytical results from the 80-90-ft sample collected from MW-7A and the analytical results from the 74-75-ft sample collected from MW-7 exhibited similar concentrations of TPH, toluene, ethylbenzene and xylenes (TEX). However benzene was not detected in the sample collected from MW-7A and benzene was detected in the sample collected from MW-7.

Analytical results from the 80-90-ft sample collected from MW-8A and the analytical results from the 74-75-ft sample collected from MW-8 exhibited dissimilar concentrations of BTEX, that is, the MW-8 sample did not exhibit TEX concentrations but did exhibit benzene, whereas, MW-8A did not exhibit benzene but did exhibit TEX concentrations. Also, TPH was detected in the MW-8A 80-90-ft sample, whereas, TPH was not detected in the MW-8 74-75-ft sample.

2.3 Drill Cuttings

Drill cuttings were transported from each monitor well location and stockpiled adjacent to the site system recovery tank compound. A composite sample of the drill cutting was collected and analyzed for BTEX by EPA Method 8021 and TPH by EPA Method 418.1. Analytical results indicate that the TPH concentration was 94.2 mg/Kg and the total BTEX concentration was 0.0217 mg/Kg. Analytical results are summarized on Table 2 in Appendix B.

2.4 Monitor Well Plugging

As previously noted, groundwater levels have consistently declined every year since groundwater measurements were initiated in 2002. Groundwater levels declined below the total depths of monitor wells MW-7 and MW-8; therefore, those monitor wells were plugged and abandoned. Plugging procedure was performed in accordance with NMAC 19.27.4 and NMED guidance. After an unsuccessful attempt to pull the casing from each well, 3/8-inch bentonite

chips were placed into the casing from TD to surface. The bentonite seal was hydrated with fresh water at ten (10) feet lifts. After plugging, the surface vault and concrete pad were removed. Copies of the State of New Mexico Well Plugging Records for MW-7 and MW-8 are located in Appendix D.

Monitor wells MW-2 and MW-12 were not plugged at this time because they still contain a minor amount of fluid and can be used for gauging purposes when monitor wells MW-2A and MW-12A contain pumps.

2.5 Groundwater Gauging and Development Procedures

Each newly installed monitor well was developed by removing five (5) casing volumes of fluid using a four (4) inch Grunfos stainless steel electric pump. The purge water and phase separated hydrocarbon (PSH), if recovered, were contained in 55-gallon drums and transferred to the on-site recovery tank. The fluid will then be transferred to the Rocky Smith SWD (NM #307219) for disposal.

After well development, each newly installed monitor well was measured with an oil/water interface probe. The gauging results collected were incorporated in Table 1, Appendix B – Summary of Historical Fluid Level Measurements.

Groundwater samples will be collected from the newly installed monitor wells that were not impacted with PSH during the next quarterly monitoring event in June of 2011.

3.0 RECOMMENDATIONS

3.1 Recommendations

Subsequent to new monitor well installation, Talon proposes the following actions:

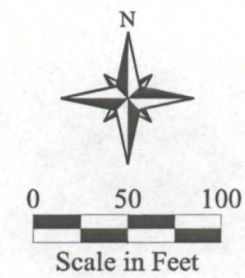
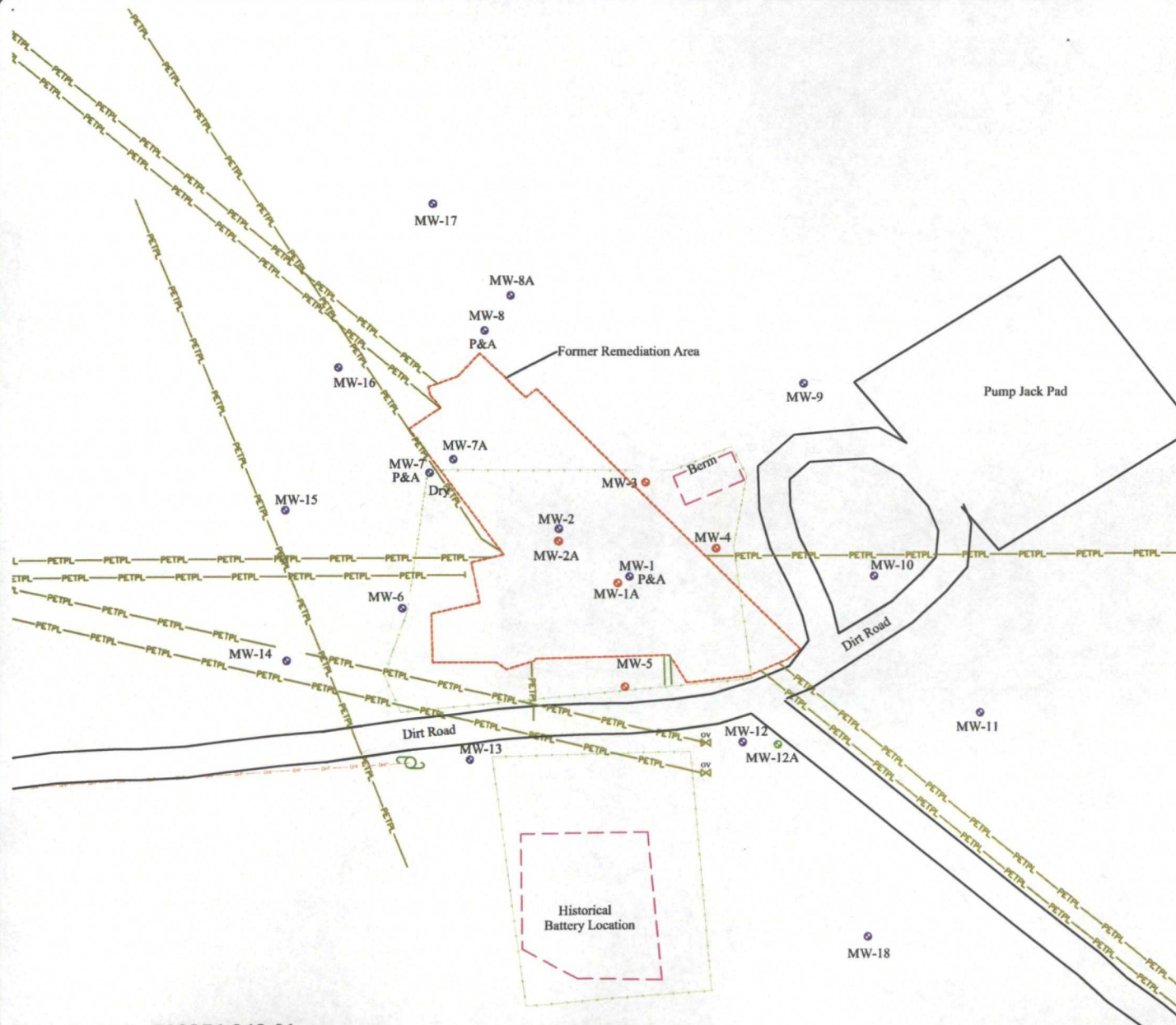
- Install pneumatic total fluids pumps in newly installed monitor well MW-2A, and MW-4 and install skimmers with bladder pumps in newly installed monitor wells MW-7A and MW-12A in order to optimize PSH recovery and inhibit plume migration.
- Continue to monitor PSH plume distribution and recovery volumes in order to adjust pump depths and cycles to the optimal configuration.

APPENDIX A

Figures

Figure 1 - Site Plan

Figure 2 – Topographic Map



- Legend
- Monitor Well
 - Pipeline
 - Valve
 - Fence line

Talon/LPE # : 700376.049.01



Date: 04/24/2009

Scale: 1" = 100'

Drawn By: SJA

C.S. Cayler
 SRS # 2002-10250, NMOCD REF. # AP-052 (OLD 1R-0382)
 Lea County, New Mexico
 Figure 1 - Site Plan



Topographic Map - Lovington SE, 1985
 Section 6, Township 17S, Range 37E
 1:24,000 - New Mexico
 Date: June 15, 2011
 Prepared by: S. R. Killingsworth, PG

Plains Pipeline, L.P.
 333 Clay St. - Suite 1600
 Houston, Texas 77002

Not to scale

APPENDIX B

Tables

Table 1 – Summary of Historical Fluid Level Measurements

Table 2 – Summary of Soil Analytical Results



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-1	10/17/02	WELL INSTALLED 17-Oct-02				
MW-1	03/07/03	3,803.97	72.28	84.20	11.92	3,729.72
MW-1	03/11/03		72.30	84.19	11.89	3,729.71
MW-1	03/17/03		72.33	84.25	11.92	3,729.67
MW-1	03/22/03		72.35	84.24	11.89	3,729.66
MW-1	05/06/03		71.55	83.11	11.56	3,730.51
MW-1	05/07/03		71.58	83.05	11.47	3,730.50
MW-1	05/08/03		71.55	83.03	11.48	3,730.53
MW-1	05/09/03		71.53	83.00	11.47	3,730.55
MW-1	05/15/03		71.57	83.01	11.44	3,730.51
MW-1	05/16/03		71.59	82.90	11.31	3,730.51
MW-1	05/28/03		71.65	82.50	10.85	3,730.53
MW-1	06/11/03		71.75	82.57	10.82	3,730.43
MW-1	08/14/03		63.45	73.41	9.96	3,738.88
MW-1	01/02/04		64.31	73.63	9.32	3,738.12
MW-1	04/12/04		64.74	73.74	9.00	3,737.75
MW-1	06/01/04		64.87	73.52	8.65	3,737.67
MW-1	06/21/04		65.04	73.49	8.45	3,737.54
MW-1	07/14/04		67.52	75.92	8.40	3,735.06
MW-1	10/17/04		68.38	73.28	4.90	3,734.78
MW-1	10/29/04		68.53	73.45	4.92	3,734.63
MW-1	03/31/05		68.23	73.00	4.77	3,734.95
MW-1	04/25/05		68.56	72.68	4.12	3,734.73
MW-1	05/31/05		68.57	72.61	4.04	3,734.73
MW-1	06/29/05		68.88	73.72	4.84	3,734.29
MW-1	09/15/05		69.79	73.63	3.84	3,733.55
MW-1	11/14/05		70.44	73.26	2.82	3,733.06
MW-1	01/23/06		70.72	73.80	3.08	3,732.74
MW-1	03/01/06		70.41	73.59	3.18	3,733.04
MW-1	05/25/06		71.05	73.20	2.15	3,732.57
MW-1	08/14/06		72.46	73.76	1.30	3,731.30
MW-1	11/29/06		73.31	73.69	0.38	3,730.60



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-1	01/11/07		73.31	73.69	0.38	3,730.60
MW-1	02/08/07		73.38	73.73	0.35	3,730.53
MW-1	04/03/07		73.86	82.21	8.35	3,728.73
MW-1	04/11/07		74.06	82.27	8.21	3,728.56
MW-1	04/17/07		74.21	82.63	8.42	3,728.37
MW-1	05/14/07		74.06	82.00	7.94	3,728.60
MW-1	06/26/07		73.80	NA		NA
MW-1	06/28/07		DRY			
MW-1	09/14/07		DRY			
MW-1	09/26/07		DRY			
MW-1	10/05/07		DRY			
MW-1	10/09/07		DRY			
MW-1	10/19/07		DRY			
MW-1	10/24/07		DRY			
MW-1	10/31/07		DRY			
MW-1	11/28/07		DRY			
MW-1	12/03/07		DRY			
MW-1	01/03/08		DRY			
MW-1	01/08/08		DRY			
MW-1	01/14/08		DRY			
MW-1	01/23/08		DRY			
MW-1	01/28/08		DRY			
MW-1	02/11/08		DRY			
MW-1	03/12/08		DRY			
MW-1	03/26/08		DRY			
MW-1	04/01/08		DRY			
MW-1	08/13/08		DRY			
MW-1	09/18/08	WELL PLUGGED 9/18/08				
MW-1A	09/18/08	WELL INSTALLED 9/18/08 TD=96.20				
MW-1A	09/23/08	3,810.02	82.40	89.71	7.31	3,726.41
MW-1A	12/04/08		82.50	89.55	7.05	3,726.36



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-1A	01/21/09		82.11	89.61	7.50	3,726.67
MW-1A	02/18/09	3,810.14	82.34	89.70	7.36	3,726.59
MW-1A	04/06/09		82.76	90.26	7.50	3,726.14
MW-1A	06/10/09		83.22	90.54	7.32	3,725.71
MW-1A	08/25/09	Well Not Gauged Due to Total Fluid Pump				
MW-1A	12/10/09		84.68	91.52	6.84	3,724.33
MW-1A	01/08/10		84.65	90.80	6.15	3,724.48
MW-1A	02/18/10		85.29	87.95	2.66	3,724.41
MW-1A	06/09/10		84.95	93.02	8.07	3,723.86
MW-1A	09/21/10		86.04	93.13	7.09	3,722.93
MW-1A	12/17/10		88.92	91.52	2.60	3,720.79
MW-1A	03/25/11		85.85	92.40	6.55	3,723.21
MW-2	05/28/04	WELL INSTALLED 5/28/04 TD=88.10				
MW-2	06/01/04	3,803.93	67.17	77.76	10.59	3,735.01
MW-2	06/21/04		67.27	77.93	10.66	3,734.90
MW-2	07/14/04		67.38	78.09	10.71	3,734.78
MW-2	10/16/04		68.79	74.04	5.25	3,734.27
MW-2	10/29/04		67.97	77.70	9.73	3,734.35
MW-2	03/31/05		68.23	78.50	10.27	3,734.01
MW-2	04/25/05		68.37	77.03	8.66	3,734.13
MW-2	05/31/05		68.46	76.97	8.51	3,734.07
MW-2	06/29/05		69.09	76.12	7.03	3,733.68
MW-2	09/15/05		69.75	79.14	9.39	3,732.63
MW-2	11/14/05		70.66	78.44	7.78	3,731.99
MW-2	01/23/06		70.95	78.27	7.32	3,731.77
MW-2	03/01/06		70.53	77.41	6.88	3,732.26
MW-2	05/25/06		72.19	75.49	3.30	3,731.20
MW-2	08/14/06		73.08	78.31	5.23	3,729.99
MW-2	11/29/06		74.09	78.20	4.11	3,729.16
MW-2	12/12/06		74.53	77.57	3.04	3,728.90
MW-2	01/11/07		74.22	78.81	4.59	3,728.95



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-2	02/08/07		75.11	75.18	0.07	3,728.81
MW-2	04/03/07		73.95	82.11	8.16	3,728.63
MW-2	04/11/07		74.02	82.30	8.28	3,728.54
MW-2	04/17/07		74.02	82.41	8.39	3,728.53
MW-2	05/14/07		74.03	82.55	8.52	3,728.49
MW-2	06/26/07		74.20	82.64	8.44	3,728.34
MW-2	06/28/07		74.36	82.48	8.12	3,728.23
MW-2	08/13/07		74.71	81.91	7.20	3,728.03
MW-2	08/17/07		75.66	79.30	3.64	3,727.67
MW-2	08/21/07		NA	76.19		3,727.74
MW-2	08/28/07		75.84	78.91	3.07	3,727.58
MW-2	09/14/07		75.63	79.29	3.66	3,727.70
MW-2	09/26/07		74.88	82.41	7.53	3,727.81
MW-2	10/05/07		74.85	82.70	7.85	3,727.78
MW-2	10/08/07		74.87	82.71	7.84	3,727.77
MW-2	10/19/07		74.87	82.96	8.09	3,727.73
MW-2	10/24/07		74.87	83.04	8.17	3,727.71
MW-2	10/31/07		74.88	83.11	8.23	3,727.69
MW-2	11/12/07		74.82	83.19	8.37	3,727.73
MW-2	11/28/07		74.89	83.27	8.38	3,727.66
MW-2	12/03/07		74.83	83.20	8.37	3,727.72
MW-2	01/03/08		75.32	83.50	8.18	3,727.26
MW-2	01/08/08		74.76	82.25	7.49	3,727.93
MW-2	01/14/08		75.49	83.23	7.74	3,727.16
MW-2	01/23/08		75.45	83.43	7.98	3,727.16
MW-2	01/28/08		75.38	83.47	8.09	3,727.22
MW-2	02/11/08		74.94	83.02	8.08	3,727.66
MW-2	03/12/08		75.40	83.54	8.14	3,727.19
MW-2	03/26/08		75.14	83.99	8.85	3,727.33
MW-2	04/01/08		76.19	83.34	7.15	3,726.56
MW-2	04/11/08		76.73	80.62	3.89	3,726.56
MW-2	04/15/08		76.33	79.08	2.75	3,727.15



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-2	04/22/08		75.66	79.07	3.41	3,727.71
MW-2	04/28/08		76.00	83.17	7.17	3,726.75
MW-2	05/06/08		75.68	79.12	3.44	3,727.68
MW-2	05/16/08		75.40	83.02	7.62	3,727.27
MW-2	05/22/08		75.61	82.32	6.71	3,727.21
MW-2	07/25/08		79.90	87.72	7.82	3,722.74
MW-2	08/13/08		80.21	88.82	8.61	3,722.30
MW-2	09/23/08	3,807.67	79.34	85.88	6.54	3,727.25
MW-2	10/15/08			79.89	79.89	3,794.49
MW-2	12/04/08		79.68	84.90	5.22	3,727.13
MW-2	01/21/09		74.92	79.30	4.38	3,732.03
MW-2	02/18/09	3,807.38	79.99	86.26	6.27	3,726.36
MW-2	04/06/09		80.46	86.28	5.82	3,725.96
MW-2	06/10/09		81.05	85.86	4.81	3,725.54
MW-2	08/25/09		82.45	85.30	2.85	3,724.46
MW-2	12/10/09		82.74	86.22	3.48	3,724.07
MW-2	01/08/10		81.79	86.25	4.46	3,724.85
MW-2	02/18/10		81.50	87.12	5.62	3,724.95
MW-2	06/09/10		88.21	ND		
MW-2	09/21/10		NM - Pump Stuck			
MW-2	12/17/10		NM - Pump Stuck			
MW-2	03/25/11		82.45	88.10	5.65	3,724.00
MW-2A	04/28/11	WELL INSTALLED 28-April-11 TD=109.32'				
	05/10/11	NM		87.44		NM
MW-3	05/31/04	WELL INSTALLED 31-May-04 TD=93.53				
MW-3	06/21/04	3,810.20	75.51	75.51	0.00	3,734.69
MW-3	07/14/04		74.39	81.31	6.92	3,734.67
MW-3	08/26/04		74.75	84.31	9.56	3,733.87
MW-3	10/16/04		75.53	77.55	2.02	3,734.34



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-3	10/29/04		75.45	79.00	3.55	3,734.16
MW-3	03/31/05		74.65	83.60	8.95	3,734.07
MW-3	04/25/05		74.81	82.74	7.93	3,734.08
MW-3	05/31/05		75.00	82.16	7.16	3,734.02
MW-3	06/29/05		75.83	80.44	4.61	3,733.61
MW-3	09/15/05		76.09	85.47	9.38	3,732.56
MW-3	11/14/05		77.81	81.11	3.30	3,731.85
MW-3	01/23/06		77.78	81.74	3.96	3,731.77
MW-3	03/01/06		77.43	81.49	4.06	3,732.10
MW-3	05/25/06		78.49	81.15	2.66	3,731.27
MW-3	08/14/06		79.51	84.36	4.85	3,729.89
MW-3	01/11/07		80.78	84.05	3.27	3,728.88
MW-3	02/08/07		83.65	83.66	0.01	3,726.55
MW-3	04/03/07		80.25	88.51	8.26	3,728.59
MW-3	04/11/07		80.69	88.97	8.28	3,728.14
MW-3	04/17/07		80.38	88.78	8.40	3,728.43
MW-3	05/14/07		80.43	89.56	9.13	3,728.26
MW-3	06/26/07		81.74	89.12	7.38	3,727.24
MW-3	06/28/07		80.69	89.05	8.36	3,728.13
MW-3	08/13/07		81.08	89.43	8.35	3,727.74
MW-3	08/17/07		82.05	83.50	1.45	3,727.91
MW-3	08/21/07		82.65	82.68	0.03	3,727.55
MW-3	08/28/07		81.51	88.44	6.93	3,727.55
MW-3	09/14/07		81.42	86.89	5.47	3,727.88
MW-3	09/26/07		81.22	88.92	7.70	3,727.71
MW-3	10/05/07		81.14	88.99	7.85	3,727.76
MW-3	10/08/07		81.14	89.00	7.86	3,727.76
MW-3	10/19/07		81.23	89.39	8.16	3,727.62
MW-3	10/24/07		81.24	89.35	8.11	3,727.62
MW-3	10/31/07		81.24	89.47	8.23	3,727.60
MW-3	11/12/07		81.25	89.39	8.14	3,727.61
MW-3	11/28/07		81.26	89.44	8.18	3,727.59



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-3	12/03/07		81.26	89.36	8.10	3,727.60
MW-3	01/03/08		81.17	89.41	8.24	3,727.67
MW-3	01/08/08		81.11	89.05	7.94	3,727.78
MW-3	01/14/08		81.62	88.39	6.77	3,727.46
MW-3	01/23/08		80.84	87.89	7.05	3,728.20
MW-3	01/28/08		80.31	88.20	7.89	3,728.59
MW-3	02/11/08		81.92	88.49	6.57	3,727.20
MW-3	03/12/08		81.43	87.43	6.00	3,727.78
MW-3	03/26/08		80.57	88.54	7.97	3,728.31
MW-3	04/01/08		82.06	87.81	5.75	3,727.19
MW-3	04/11/08		81.90	87.81	5.91	3,727.32
MW-3	04/15/08		82.04	87.85	5.81	3,727.20
MW-3	04/22/08		82.01	87.90	5.89	3,727.22
MW-3	04/28/08		82.11	87.24	5.13	3,727.24
MW-3	05/06/08		82.00	87.94	5.94	3,727.22
MW-3	05/16/08		82.24	88.07	5.83	3,727.00
MW-3	05/22/08		82.94	89.22	6.28	3,726.22
MW-3	06/19/08		83.09	85.71	2.62	3,726.68
MW-3	07/25/08		83.35	88.33	4.98	3,726.03
MW-3	08/13/08		83.21	89.65	6.44	3,725.93
MW-3	09/23/08	3,810.35	83.28	86.97	3.69	3,726.46
MW-3	10/15/08		84.04	84.22	0.18	3,726.28
MW-3	12/04/08		83.61	85.01	1.40	3,726.51
MW-3	01/21/09		82.68	87.80	5.12	3,726.83
MW-3	02/18/09	3,810.36	84.82	88.49	3.67	3,724.93
MW-3	04/06/09		83.33	89.47	6.14	3,726.02
MW-3	06/10/09		83.58	89.41	5.83	3,725.82
MW-3	08/25/09		84.35	90.90	6.55	3,724.93
MW-3	12/10/09		85.04	92.01	6.97	3,724.17
MW-3	01/08/10		84.83	91.51	6.68	3,724.43
MW-3	02/18/10		84.81	91.41	6.60	3,724.46
MW-3	06/09/10		85.22	91.78	6.56	3,724.06



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-3	09/21/10		NM - Pump Stuck			
MW-3	12/17/10		86.56	89.21	2.65	3,723.36
MW-3	03/25/11		86.55	89.60	3.05	3,723.31
MW-4	06/01/04	WELL INSTALLED 01-Jun-04 TD=93.16				
MW-4	06/21/04	3,810.70	76.04	76.04		3,734.66
MW-4	07/14/04		74.51	83.91	9.40	3,734.64
MW-4	08/26/04		74.21	83.61	9.40	3,734.94
MW-4	10/16/04		75.77	80.56	4.79	3,734.14
MW-4	10/17/04		75.76	80.96	5.20	3,734.08
MW-4	10/29/04		75.56	81.42	5.86	3,734.17
MW-4	03/31/05		73.51	81.95	8.44	3,735.80
MW-4	04/25/05		75.53	82.62	7.09	3,734.00
MW-4	05/31/05		75.55	82.86	7.31	3,733.94
MW-4	06/29/05		75.96	83.51	7.55	3,733.49
MW-4	09/15/05		76.71	86.23	9.52	3,732.42
MW-4	11/14/05		77.64	85.38	7.74	3,731.78
MW-4	01/23/06		77.79	84.93	7.14	3,731.73
MW-4	03/01/06		77.48	84.12	6.64	3,732.12
MW-4	05/25/06		78.28	85.22	6.94	3,731.27
MW-4	08/14/06		79.78	86.67	6.89	3,729.78
MW-4	11/29/06		80.29	85.15	4.86	3,729.61
MW-4	12/12/06		81.71	86.01	4.30	3,728.28
MW-4	01/11/07		80.03	82.77	2.74	3,730.22
MW-4	02/08/07		81.28	82.70	1.42	3,729.19
MW-4	04/03/07		80.78	89.44	8.66	3,728.49
MW-4	04/11/07		80.85	89.55	8.70	3,728.41
MW-4	04/17/07		80.92	89.05	8.13	3,728.44
MW-4	05/14/07		80.96	89.68	8.72	3,728.30
MW-4	06/26/07		81.41	89.82	8.41	3,727.90
MW-4	06/28/07		81.28	89.71	8.43	3,728.03
MW-4	08/13/07		81.76	89.92	8.16	3,727.59



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-4	08/17/07		80.36	87.55	7.19	3,729.15
MW-4	08/21/07		82.01	89.41	7.40	3,727.47
MW-4	08/28/07		NA	79.50		3,731.20
MW-4	09/14/07		81.76	89.85	8.09	3,727.61
MW-4	09/26/07		81.73	88.89	7.16	3,727.79
MW-4	10/05/07		81.66	89.80	8.14	3,727.70
MW-4	10/08/07		81.65	89.78	8.13	3,727.71
MW-4	10/19/07		81.80	90.05	8.25	3,727.54
MW-4	10/24/07		81.80	89.99	8.19	3,727.55
MW-4	10/31/07		81.82	90.07	8.25	3,727.52
MW-4	11/12/07		82.02	89.84	7.82	3,727.39
MW-4	11/28/07		81.93	89.82	7.89	3,727.47
MW-4	12/03/07		81.91	89.72	7.81	3,727.50
MW-4	01/03/08		81.66	89.19	7.53	3,727.80
MW-4	01/08/08		81.70	89.31	7.61	3,727.74
MW-4	01/14/08		81.98	88.87	6.89	3,727.58
MW-4	01/23/08		82.17	87.76	5.59	3,727.61
MW-4	01/28/08		81.77	89.17	7.40	3,727.71
MW-4	02/11/08		81.29	88.75	7.46	3,728.18
MW-4	03/12/08		81.86	88.79	6.93	3,727.70
MW-4	03/26/08		82.67	86.36	3.69	3,727.42
MW-4	04/01/08		82.56	88.83	6.27	3,727.11
MW-4	04/11/08		82.49	88.94	6.45	3,727.15
MW-4	04/15/08		82.31	89.90	7.59	3,727.14
MW-4	04/22/08		82.36	89.26	6.90	3,727.20
MW-4	05/06/08		83.98	90.27	6.29	3,725.68
MW-4	05/16/08		82.89	90.01	7.12	3,726.64
MW-4	05/22/08		82.39	90.19	7.80	3,727.02
MW-4	06/19/08		82.78	90.45	7.67	3,726.65
MW-4	07/25/08		83.71	91.11	7.40	3,725.77
MW-4	08/13/08		83.60	91.07	7.47	3,725.87
MW-4	09/23/08	3,810.82	83.36	90.47	7.11	3,726.29



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-4	10/15/08		83.78	88.43	4.65	3,726.27
MW-4	12/04/08		83.32	89.40	6.08	3,726.50
MW-4	01/21/09		82.79	90.31	7.52	3,726.79
MW-4	02/18/09	3,810.81	83.05	90.35	7.30	3,726.56
MW-4	04/06/09		84.24	91.58	7.34	3,725.36
MW-4	06/10/09		83.88	91.42	7.54	3,725.69
MW-4	08/25/09		84.90	92.00	7.10	3,724.74
MW-4	12/10/09		85.30	92.34	7.04	3,724.35
MW-4	01/08/10		85.47	92.15	6.68	3,724.24
MW-4	02/18/10		92.31	95.42	3.11	3,717.99
MW-4	06/09/10		86.38	90.06	3.68	3,723.82
MW-4	09/21/10		87.13	92.72	5.59	3,722.76
MW-4	12/17/10		87.32	89.22	1.90	3,723.18
MW-4	03/25/11		86.40	92.75	6.35	3,723.36
MW-5	06/05/04	WELL INSTALLED 05-Jun-04 TD=93.41				
MW-5	06/21/04	3,809.05	--	74.42		3,734.63
MW-5	07/14/04		--	74.53		3,734.52
MW-5	10/29/04		--	75.00		3,734.05
MW-5	11/19/04		--	75.10		3,733.95
MW-5	03/31/05		--	75.18		3,733.87
MW-5	04/25/05		--	75.19		3,733.86
MW-5	05/12/05		--	75.22		3,733.83
MW-5	05/31/05		--	75.25		3,733.80
MW-5	06/29/05		--	75.67		3,733.38
MW-5	08/22/05		--	76.64		3,732.41
MW-5	09/15/05		--	76.75		3,732.30
MW-5	11/14/05		--	77.39		3,731.66
MW-5	01/23/06		77.21	79.19	1.98	3,732.48
MW-5	03/01/06		76.59	79.18	2.59	3,733.00
MW-5	05/25/06		77.41	79.93	2.52	3,732.19
MW-5	08/14/06		78.99	80.63	1.64	3,730.76



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-5	11/29/06		78.91	85.95	7.04	3,729.95
MW-5	01/11/07		78.85	86.30	7.45	3,729.94
MW-5	02/08/07		78.82	86.29	7.47	3,729.97
MW-5	02/20/07		79.22	85.66	6.44	3,729.74
MW-5	03/06/07		79.15	86.07	6.92	3,729.73
MW-5	03/14/07		78.68	85.60	6.92	3,730.20
MW-5	03/27/07		79.64	86.03	6.39	3,729.33
MW-5	03/29/07		79.36	86.25	6.89	3,729.52
MW-5	04/03/07		79.38	86.71	7.33	3,729.43
MW-5	04/11/07		79.91	87.02	7.11	3,728.94
MW-5	04/17/07		79.52	88.90	9.38	3,728.95
MW-5	05/24/07		79.54	86.90	7.36	3,729.27
MW-5	06/26/07		79.94	87.32	7.38	3,728.86
MW-5	06/28/07		79.84	87.25	7.41	3,728.96
MW-5	08/13/07		80.26	81.66	1.40	3,729.53
MW-5	08/21/07		80.39	87.63	7.24	3,728.44
MW-5	08/28/07		80.49	87.64	7.15	3,728.35
MW-5	09/14/07		80.32	87.59	7.27	3,728.50
MW-5	09/26/07		81.72	87.66	5.94	3,727.32
MW-5	10/05/07		80.22	87.51	7.29	3,728.60
MW-5	10/08/07		80.20	87.52	7.32	3,728.61
MW-5	10/19/07		80.44	87.66	7.22	3,728.39
MW-5	10/24/07		80.36	87.73	7.37	3,728.44
MW-5	10/31/07		80.37	87.85	7.48	3,728.42
MW-5	11/12/07		80.36	87.51	7.15	3,728.48
MW-5	12/28/07		80.83	87.61	6.78	3,728.07
MW-5	12/03/07		80.34	87.35	7.01	3,728.52
MW-5	01/03/08		80.17	86.72	6.55	3,728.77
MW-5	01/08/08		80.17	86.85	6.68	3,728.75
MW-5	01/14/08		80.32	86.74	6.42	3,728.64
MW-5	01/23/08		82.34	85.78	3.44	3,727.11
MW-5	01/28/08		80.25	87.03	6.78	3,728.65



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-5	02/11/08		80.26	86.34	6.08	3,728.76
MW-5	03/12/08		80.28	86.93	6.65	3,728.64
MW-5	03/26/08		81.23	84.33	3.10	3,728.28
MW-5	04/01/08		81.38	84.40	3.02	3,728.14
MW-5	04/11/08		81.79	83.35	1.56	3,727.97
MW-5	04/15/08		81.77	83.38	1.61	3,727.98
MW-5	04/22/08		81.50	82.54	1.04	3,728.35
MW-5	04/28/08		81.87	82.13	0.26	3,728.11
MW-5	05/06/08		81.51	82.56	1.05	3,728.34
MW-5	05/16/08		82.15	82.56	0.41	3,727.80
MW-5	05/22/08		81.92	83.49	1.57	3,727.84
MW-5	06/19/08		81.24	88.59	7.35	3,727.57
MW-5	07/25/08		81.76	88.92	7.16	3,727.08
MW-5	08/13/08		82.07	89.27	7.20	3,726.76
MW-5	09/23/08	3,809.21	82.61	83.73	1.12	3,726.42
MW-5	10/15/08		82.98	83.20	0.22	3,726.19
MW-5	12/04/08		82.77	83.31	0.54	3,726.35
MW-5	01/21/09		81.48	87.40	5.92	3,726.75
MW-5	02/18/09	3,809.29	81.90	86.67	4.77	3,726.60
MW-5	04/06/09		82.40	86.98	4.58	3,726.13
MW-5	06/10/09		83.41	84.72	1.31	3,725.66
MW-5	08/25/09		84.03	87.40	3.37	3,724.70
MW-5	12/10/09		83.75	90.78	7.03	3,724.38
MW-5	01/08/10		83.69	90.13	6.44	3,724.54
MW-5	02/18/10		83.69	90.15	6.46	3,724.53
MW-5	06/09/10		85.02	87.17	2.15	3,723.92
MW-5	09/21/10		84.95	92.82	7.87	3,723.04
MW-5	12/17/10		85.42	87.87	2.45	3,723.47
MW-5	03/25/11		84.70	92.68	7.98	3,723.27
MW-6	10/21/04	WELL INSTALLED 21-Oct-04 (TD-88.31)				
MW-6	10/27/04	3,809.17		75.13		3,734.04



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-6	10/29/04			75.13		3,734.04
MW-6	11/19/04			75.23		3,733.94
MW-6	03/31/05			75.33		3,733.84
MW-6	04/25/05			75.27		3,733.90
MW-6	05/12/05			75.30		3,733.87
MW-6	05/31/05			75.33		3,733.84
MW-6	06/29/05			75.68		3,733.49
MW-6	08/22/05			76.63		3,732.54
MW-6	09/15/05			76.80		3,732.37
MW-6	11/14/05			77.41		3,731.76
MW-6	01/23/06			77.60		3,731.57
MW-6	03/01/06			77.01		3,732.16
MW-6	05/25/06			77.92		3,731.25
MW-6	08/14/06			79.18		3,729.99
MW-6	11/29/06			80.12		3,729.05
MW-6	12/12/06			80.19		3,728.98
MW-6	01/11/07			80.20		3,728.97
MW-6	02/08/07			79.99		3,729.18
MW-6	02/20/07			80.36		3,728.81
MW-6	03/06/07			80.40		3,728.77
MW-6	03/14/07			79.92		3,729.25
MW-6	03/27/07			80.62		3,728.55
MW-6	03/29/07			80.34		3,728.83
MW-6	04/03/07			80.68		3,728.49
MW-6	04/11/07			81.03		3,728.14
MW-6	04/17/07			80.82		3,728.35
MW-6	06/13/07			80.88		3,728.29
MW-6	06/26/07			81.04		3,728.13
MW-6	09/14/07			81.62		3,727.55
MW-6	10/19/07			81.64		3,727.53
MW-6	12/03/07			81.56		3,727.61
MW-6	01/08/08			81.78		3,727.39



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-6	01/28/08			81.39		3,727.78
MW-6	03/12/08			81.39		3,727.78
MW-6	04/22/08			84.48		3,724.69
MW-6	06/19/08			82.10		3,727.07
MW-6	08/13/08			82.67		3,726.50
MW-6	10/15/08			82.99		3,726.18
MW-6	12/04/08			82.88		3,726.29
MW-6	01/21/09			82.59		3,726.58
MW-6	02/18/09	3,809.33		82.78		3,726.55
MW-6	04/06/09			83.17		3,726.16
MW-6	06/10/09			83.64		3,725.69
MW-6	08/25/09			84.51		3,724.82
MW-6	12/10/09			84.77		3,724.56
MW-6	01/08/10			84.59		3,724.74
MW-6	02/18/10			84.49		3,724.84
MW-6	06/09/10			84.98		3,724.35
MW-6	09/21/10			86.25		3,723.08
MW-6	12/17/10			85.92		3,723.41
MW-6	03/25/11			86.04		3,723.29
MW-7	10/21/04	WELL INSTALLED 21-Oct-04 (TD-84.71)				
MW-7	10/27/04	3,809.95	75.82	76.05	0.23	3,734.09
MW-7	10/29/04		75.82	76.05	0.23	3,734.09
MW-7	11/19/04		75.21	79.14	3.93	3,734.09
MW-7	03/31/05		75.22	79.18	3.96	3,734.08
MW-7	04/25/05		74.37	82.84	8.47	3,734.18
MW-7	05/31/05		75.41	78.75	3.34	3,733.99
MW-7	06/29/05		74.86	83.31	8.45	3,733.70
MW-7	09/15/05		75.92	83.58	7.66	3,732.77
MW-7	11/14/05		76.75	83.17	6.42	3,732.14
MW-7	01/23/06		77.16	83.54	6.38	3,731.74
MW-7	03/01/06		76.71	82.60	5.89	3,732.27



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-7	05/25/06		77.71	79.37	1.66	3,731.97
MW-7	08/14/06		78.61	83.34	4.73	3,730.56
MW-7	11/29/06		79.51	83.15	3.64	3,729.84
MW-7	12/12/06		79.95	83.00	3.05	3,729.50
MW-7	01/11/07		79.77	84.41	4.64	3,729.41
MW-7	02/08/07		79.63	84.15	4.52	3,729.57
MW-7	04/03/07		80.09	84.18	4.09	3,729.19
MW-7	04/11/07		80.73	84.91	4.18	3,728.53
MW-7	04/17/07		80.74	84.96	4.22	3,728.51
MW-7	05/14/07		80.30	84.42	4.12	3,728.97
MW-7	06/26/07		80.70	82.68	1.98	3,728.92
MW-7	06/28/07		80.52	83.66	3.14	3,728.91
MW-7	08/13/07		81.22	83.66	2.44	3,728.33
MW-7	08/21/07		81.37	83.44	2.07	3,728.24
MW-7	09/14/07		81.01	84.25	3.24	3,728.41
MW-7	09/26/07		80.97	84.30	3.33	3,728.43
MW-7	10/05/07		80.92	84.33	3.41	3,728.47
MW-7	10/08/07		80.92	84.32	3.40	3,728.47
MW-7	10/19/07		81.04	84.30	3.26	3,728.37
MW-7	10/24/07		81.05	84.30	3.25	3,728.36
MW-7	10/31/07		81.08	84.34	3.26	3,728.33
MW-7	11/12/07		81.02	84.35	3.33	3,728.45
MW-7	11/28/07		80.89	NA		
MW-7	12/03/07		80.98	NA		
MW-7	01/03/08		79.83	NA		
MW-7	01/08/08		80.92	84.40*		
MW-7	01/14/08		81.34	84.37*		
MW-7	03/12/08		81.20	84.39*		
MW-7	03/26/08		81.54	84.45*		
MW-7	04/11/07		81.40	84.49	3.09	3,728.04
MW-7	04/15/07		82.67	83.16	0.49	3,727.20
MW-7	04/22/07		82.66	82.81	0.15	3,727.27



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-7	04/28/07		82.75	83.14	0.39	3,727.14
MW-7	05/06/07		82.39	83.29	0.90	3,727.41
MW-7	05/16/07		83.03	83.26	0.23	3,726.88
MW-7	05/22/08		81.76	83.84	2.08	3,727.85
MW-7	06/19/08		81.91	84.64	2.73	3,727.59
MW-7	07/25/08		82.67	84.87	2.20	3,726.92
MW-7	08/13/08		82.76	84.95*		
MW-7	09/23/08		82.54	84.29*		
MW-7	10/15/08		83.48	84.29	0.81	3,726.34
MW-7	12/04/08		82.77	84.29	1.52	3,726.93
MW-7	01/21/09		82.59	84.27	1.68	3,727.08
MW-7	02/18/09	3,810.08	82.41	84.29	1.88	3,727.36
MW-7	04/06/09		82.92	84.29	1.37	3,726.93
MW-7	06/10/09		83.00	*84.15		
MW-7	08/25/09		83.83	86.70	2.87	3,725.78
MW-7	12/10/09		84.53	84.58	0.05	3,725.54
MW-7	01/08/10		84.25	84.60	0.35	3,725.77
MW-7	02/18/10		84.28	84.71	0.43	3,725.73
MW-7	06/09/10		ND	84.71	0.00	3,725.37
MW-7	09/21/10		ND	DRY		
MW-7	12/17/10		ND	DRY		
MW-7	03/25/11		ND	DRY		
MW-7	03/26/11	WELL Plugged & Abandoned 26-March-11				
MW-7A	04/19/11	WELL INSTALLED 19-April-11 (TD-101.21')				
	05/13/11	NM	87.67	88.27	0.60	NM
MW-8	10/20/04	WELL INSTALLED 20-Oct-04 (TD-84.55)				
MW-8	10/27/04	3,810.29	--	76.20		3,734.09
MW-8	10/29/04		--	76.20		3,734.09
MW-8	11/19/04		--	76.26		3,734.03
MW-8	03/31/05		--	76.30		3,733.99



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-8	04/25/05		--	76.29		3,734.00
MW-8	05/12/05		--	76.32		3,733.97
MW-8	05/31/05		--	76.34		3,733.95
MW-8	06/29/05		--	76.62		3,733.67
MW-8	08/22/05		77.42	78.08	0.66	3,732.76
MW-8	11/14/05		78.16	79.40	1.24	3,731.93
MW-8	01/23/06		78.25	80.13	1.88	3,731.73
MW-8	03/01/06		77.60	80.55	2.95	3,732.20
MW-8	05/25/06		78.43	81.31	2.88	3,731.38
MW-8	08/14/06		79.63	82.84	3.21	3,730.13
MW-8	11/29/06		80.50	83.79	3.29	3,729.25
MW-8	12/12/06		80.59	83.90	3.31	3,729.15
MW-8	01/11/07		80.63	83.88	3.25	3,729.12
MW-8	02/08/07		80.66	83.94	3.28	3,729.09
MW-8	02/20/07		80.81	84.07	3.26	3,728.94
MW-8	03/06/07		80.88	84.11	3.23	3,728.88
MW-8	03/14/07		80.09	83.26	3.17	3,729.68
MW-8	03/27/07		80.13	83.24	3.11	3,729.65
MW-8	04/03/07		81.10	83.04	1.94	3,728.87
MW-8	04/11/07		81.59	83.49	1.90	3,728.39
MW-8	04/17/07		81.61	83.51	1.90	3,728.37
MW-8	05/24/07		81.33	NA		
MW-8	06/26/07		81.62	NA		
MW-8	06/28/07		81.52	NA		
MW-8	08/13/07		81.86	NA		
MW-8	08/21/07		81.96	NA		
MW-8	08/28/07		82.02	NA		
MW-8	09/14/07		82.35	82.36	0.01	3,727.94
MW-8	09/26/07		81.99	83.03	1.04	3,728.13
MW-8	10/05/07		81.97	84.33	2.36	3,727.93
MW-8	10/08/07		81.96	83.63	1.67	3,728.05
MW-8	10/19/07		82.04	82.41	0.37	3,728.19



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-8	11/12/07		82.04	82.43	0.39	3,728.19
MW-8	11/28/07		82.04	NA		
MW-8	12/03/07		82.11	NA		
MW-8	01/03/08		81.84	NA		
MW-8	01/08/08		81.85	82.56	0.71	
MW-8	01/14/08		82.13	83.33	1.20	3,727.96
MW-8	01/23/08		82.12	83.09	0.97	3,728.01
MW-8	01/28/08		82.04	83.30	1.26	3,728.04
MW-8	02/11/08		81.97	83.34	1.37	3,728.09
MW-8	03/12/08		81.93	83.34	1.41	3,728.13
MW-8	04/01/08		81.95	83.34	1.39	3,728.11
MW-8	04/11/08		82.37	83.94	1.57	3,727.66
MW-8	04/15/08		82.36	83.45	1.09	3,727.75
MW-8	04/22/08		82.33	83.48	1.15	3,727.77
MW-8	04/28/08		82.32	83.46	1.14	3,727.78
MW-8	05/06/08		82.67	82.82	0.15	3,727.60
MW-8	05/16/08		82.47	83.46	0.99	3,727.66
MW-8	06/19/08		82.61	NA		
MW-8	08/13/08		83.32	84.96*		
MW-8	09/23/08		82.89	83.29*		
MW-8	10/15/08			DRY		
MW-8	12/04/08		82.95	83.21*		
MW-8	01/21/09		82.66	83.21*		
MW-8	02/18/09	3,810.41	82.76	83.28	0.52	3,727.56
MW-8	04/06/09		83.09	83.25	0.16	3,727.29
MW-8	06/10/09		ND	DRY		
MW-8	08/25/09		ND	DRY		
MW-8	12/10/09		ND	DRY		
MW-8	01/08/10		ND	DRY		
MW-8	02/18/10		ND	DRY		
MW-8	06/09/10		ND	DRY		
MW-8	09/21/10		ND	DRY		



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-8	12/17/10		ND	DRY		
MW-8	03/25/11		ND	DRY		
MW-8	03/26/11	WELL Plugged & Abandoned 26-April-11				
MW-8A	04/20/11	WELL INSTALLED 20-April-11 (TD-102.67')				
	05/13/11	NM		87.29		NM
MW-9	10/19/04	WELL INSTALLED 19-Oct-04 (TD-86.80)				
MW-9	10/27/04	3,809.81		75.85		3,733.96
MW-9	10/29/04			75.85		3,733.96
MW-9	11/19/04			75.91		3,733.90
MW-9	03/31/05			76.97		3,732.84
MW-9	04/25/05			75.91		3,733.90
MW-9	05/12/05			75.96		3,733.85
MW-9	05/31/05			75.99		3,733.82
MW-9	06/29/05			76.34		3,733.47
MW-9	08/22/05			77.31		3,732.50
MW-9	09/15/05			77.48		3,732.33
MW-9	11/14/05			78.15		3,731.66
MW-9	01/23/06			78.33		3,731.48
MW-9	03/01/06			77.78		3,732.03
MW-9	05/25/06			78.67		3,731.14
MW-9	08/14/06			79.90		3,729.91
MW-9	11/29/06			80.87		3,728.94
MW-9	12/12/06			80.93		3,728.88
MW-9	01/11/07			90.94		3,718.87
MW-9	02/08/07			80.70		3,729.11
MW-9	02/20/07			81.09		3,728.72
MW-9	03/06/07			81.15		3,728.66
MW-9	03/14/07			80.65		3,729.16
MW-9	03/27/07			81.34		3,728.47



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-9	03/29/07			81.11		3,728.70
MW-9	04/03/07			81.12		3,728.69
MW-9	04/11/07			81.50		3,728.31
MW-9	04/17/07			81.60		3,728.21
MW-9	05/21/07			81.61		3,728.20
MW-9	06/13/07			81.65		3,728.16
MW-9	06/26/07			81.78		3,728.03
MW-9	09/14/07			82.33		3,727.48
MW-9	10/19/07			82.37		3,727.44
MW-9	12/03/07			82.30		3,727.51
MW-9	01/08/08			82.10		3,727.71
MW-9	01/28/08			82.12		3,727.69
MW-9	03/12/08			82.11		3,727.70
MW-9	04/22/08			82.54		3,727.27
MW-9	05/16/08			82.66		3,727.15
MW-9	06/19/08			82.87		3,726.94
MW-9	08/13/08			83.41		3,726.40
MW-9	10/15/08			83.72		3,726.09
MW-9	12/04/08			83.59		3,726.22
MW-9	01/21/09			83.29		3,726.52
MW-9	02/18/09	3,809.98		86.94		3,723.04
MW-9	04/06/09			83.88		3,726.10
MW-9	06/10/09			85.35		3,724.63
MW-9	08/25/09			85.25		3,724.73
MW-9	12/10/09			85.47		3,724.51
MW-9	01/08/10			85.27		3,724.71
MW-9	02/18/10			85.18		3,724.80
MW-9	06/09/10			85.09		3,724.89
MW-9	09/21/10			86.86		3,723.12
MW-9	12/17/10			86.64		3,723.34
MW-9	03/25/11			86.78		3,723.20



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-10	10/20/04	WELL INSTALLED 20-Oct-04 (TD-86.98)				
MW-10	10/27/04	3,809.64		75.76		3,733.88
MW-10	10/29/04			75.76		3,733.88
MW-10	11/19/04			75.84		3,733.80
MW-10	03/31/05			75.87		3,733.77
MW-10	04/25/05			75.85		3,733.79
MW-10	05/12/05			75.96		3,733.68
MW-10	05/31/05			75.91		3,733.73
MW-10	06/29/05			76.30		3,733.34
MW-10	08/22/05			77.32		3,732.32
MW-10	09/15/05			77.46		3,732.18
MW-10	11/14/05			78.08		3,731.56
MW-10	01/23/06			78.22		3,731.42
MW-10	03/01/06			77.58		3,732.06
MW-10	05/25/06			78.66		3,730.98
MW-10	08/14/06			79.96		3,729.68
MW-10	11/29/06			80.84		3,728.80
MW-10	12/12/06			80.91		3,728.73
MW-10	01/11/07			80.84		3,728.80
MW-10	02/08/07			80.59		3,729.05
MW-10	02/20/07			81.00		3,728.64
MW-10	03/06/07			81.08		3,728.56
MW-10	03/14/07			80.52		3,729.12
MW-10	03/27/07			81.33		3,728.31
MW-10	03/29/07			81.07		3,728.57
MW-10	04/03/07			81.37		3,728.27
MW-10	04/11/07			81.46		3,728.18
MW-10	04/17/07			81.53		3,728.11
MW-10	05/24/07			81.54		3,728.10
MW-10	06/13/07			81.59		3,728.05
MW-10	06/26/07			81.78		3,727.86
MW-10	09/14/07			82.30		3,727.34



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-10	10/19/07			82.33		3,727.31
MW-10	12/03/07			85.26		3,724.38
MW-10	01/08/08			82.01		3,727.63
MW-10	01/28/08			82.02		3,727.62
MW-10	03/12/08			82.04		3,727.60
MW-10	04/22/08			82.51		3,727.13
MW-10	05/16/08			82.64		3,727.00
MW-10	06/19/08			82.88		3,726.76
MW-10	08/13/08			83.42		3,726.22
MW-10	10/15/08			83.73		3,725.91
MW-10	12/04/08			83.51		3,726.13
MW-10	01/21/09			83.19		3,726.45
MW-10	02/18/09	3809.79		86.72		3,723.07
MW-10	04/06/09			83.87		3,725.92
MW-10	06/10/09			84.23		3,725.56
MW-10	08/25/09			85.29		3,724.50
MW-10	12/10/09			85.42		3,724.37
MW-10	01/08/10			85.20		3,724.59
MW-10	02/18/10			85.09		3,724.70
MW-10	06/09/10			85.67		3,724.12
MW-10	09/21/10			DRY		
MW-10	12/17/10			86.54		3,723.25
MW-10	03/25/11			86.76		3,723.03
MW-11	02/21/06	WELL INSTALLED 2/21/06 (TD-89.10)				
MW-11	03/01/06	3,808.95		76.95		3,732.00
MW-11	05/25/06			78.06		3,730.89
MW-11	08/14/06			79.57		3,729.38
MW-11	11/29/06			80.26		3,728.69
MW-11	12/12/06			80.27		3,728.68
MW-11	01/11/07			80.19		3,728.76
MW-11	02/08/07			79.91		3,729.04



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-11	02/20/07			80.35		3,728.60
MW-11	03/06/07			80.42		3,728.53
MW-11	03/14/07			80.01		3,728.94
MW-11	03/27/09			80.43		3,728.52
MW-11	03/29/09			80.46		3,728.49
MW-11	04/03/07			80.96		3,727.99
MW-11	04/11/07			80.86		3,728.09
MW-11	04/17/07			80.94		3,728.01
MW-11	05/24/07			80.89		3,728.06
MW-11	06/13/07			81.08		3,727.87
MW-11	06/26/07			81.19		3,727.76
MW-11	09/14/07			81.68		3,727.27
MW-11	10/19/07			81.76		3,727.19
MW-11	12/03/07			81.60		3,727.35
MW-11	01/08/08			81.35		3,727.60
MW-11	01/28/08			81.36		3,727.59
MW-11	03/12/08			81.43		3,727.52
MW-11	04/22/08			81.91		3,727.04
MW-11	05/16/08			82.07		3,726.88
MW-11	06/19/08			82.31		3,726.64
MW-11	08/13/08			82.88		3,726.07
MW-11	10/15/08			83.15		3,725.80
MW-11	12/04/08			82.88		3,726.07
MW-11	01/21/09			82.53		3,726.42
MW-11	02/18/09	3,809.12		82.77		3,726.35
MW-11	04/06/09			83.28		3,725.84
MW-11	06/10/09			83.76		3,725.36
MW-11	08/25/09			84.81		3,724.31
MW-11	12/10/09			84.08		3,725.04
MW-11	01/08/10			84.55		3,724.57
MW-11	02/18/10			84.43		3,724.69
MW-11	06/09/10			85.08		3,724.04



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-11	09/21/10			86.30		3,722.82
MW-11	12/17/10			85.94		3,723.18
MW-11	03/25/11			86.19		3,722.93
MW-12	02/23/06	WELL INSTALLED 2/23/06 TD=90.83				
MW-12	03/01/06	3,809.63		77.60		3,732.03
MW-12	05/25/06			78.68		3,730.95
MW-12	08/14/06			79.99		3,729.64
MW-12	11/29/06			80.86		3,728.77
MW-12	12/12/06			80.90		3,728.73
MW-12	01/11/07			80.81		3,728.82
MW-12	02/08/07			80.55		3,729.08
MW-12	02/20/07			80.96		3,728.67
MW-12	03/06/07			81.04		3,728.59
MW-12	03/14/07			81.15		3,728.48
MW-12	03/27/07			81.31		3,728.32
MW-12	03/29/07			81.15		3,728.48
MW-12	04/03/07			81.35		3,728.28
MW-12	04/11/07			81.87		3,727.76
MW-12	04/17/07			81.50		3,728.13
MW-12	05/24/07			81.45		3,728.18
MW-12	06/26/07			81.79		3,727.84
MW-12	09/14/07			82.29		3,727.34
MW-12	10/19/07			82.36		3,727.27
MW-12	12/03/07			82.20		3,727.43
MW-12	01/08/08			81.99		3,727.64
MW-12	01/28/08			81.98		3,727.65
MW-12	03/12/08			82.07		3,727.56
MW-12	04/22/08			82.52		3,727.11
MW-12	05/16/08			82.07		3,727.56
MW-12	06/19/08			82.91		3,726.72
MW-12	08/13/08			83.46		3,726.17



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-12	10/15/08			83.74		3,725.89
MW-12	12/04/08		83.38	84.10	0.72	#REF!
MW-12	01/21/09		83.08	83.71	0.63	3,726.45
MW-12	02/18/09	3809.81	83.20	84.42	1.22	3,726.41
MW-12	04/06/09		83.51	85.66	2.15	3,725.95
MW-12	06/10/09		83.62	87.94	4.32	3,725.48
MW-12	08/25/09		84.44	89.90	5.46	3,724.47
MW-12	12/10/09		85.09	88.60	3.51	3,724.14
MW-12	01/08/10		84.93	88.26	3.33	3,724.33
MW-12	02/18/10		84.90	88.25	3.35	3,724.36
MW-12	06/09/10		86.05	86.26	0.21	3,723.73
MW-12	09/21/10		86.08	90.90	4.82	3,722.93
MW-12	12/17/10		86.15	88.25	2.10	3,723.31
MW-12	03/25/11		85.86	90.70	4.84	3,723.15
MW-12A	04/28/11	WELL INSTALLED 4/28/11 (TD-108.60')				
MW-12A	05/10/11	NM		86.60		NM
MW-13	02/22/06	WELL INSTALLED 2/22/06 (TD-88.86)				
MW-13	03/01/06	3,809.42		77.33		3,732.09
MW-13	05/25/06			78.35		3,731.07
MW-13	08/14/06			79.59		3,729.83
MW-13	11/29/06			80.51		3,728.91
MW-13	12/12/06			80.68		3,728.74
MW-13	01/11/07			80.48		3,728.94
MW-13	02/08/07			80.25		3,729.17
MW-13	02/20/07			80.86		3,728.56
MW-13	03/06/07			80.71		3,728.71
MW-13	03/14/07			80.82		3,728.60
MW-13	03/27/07			79.97		3,729.45
MW-13	03/29/07			80.70		3,728.72



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-13	04/03/07			81.02		3,728.40
MW-13	04/11/07			81.62		3,727.80
MW-13	04/17/07			81.17		3,728.25
MW-13	05/24/07			81.19		3,728.23
MW-13	06/26/07			81.42		3,728.00
MW-13	09/14/07			81.99		3,727.43
MW-13	10/19/07			82.02		3,727.40
MW-13	12/03/07			81.91		3,727.51
MW-13	01/08/08			81.71		3,727.71
MW-13	01/28/08			81.71		3,727.71
MW-13	03/12/08			81.74		3,727.68
MW-13	04/22/08			82.17		3,727.25
MW-13	05/16/08			82.31		3,727.11
MW-13	06/19/08			82.54		3,726.88
MW-13	08/13/08			83.06		3,726.36
MW-13	10/15/08			83.37		3,726.05
MW-13	12/04/08			83.21		3,726.21
MW-13	01/21/09			82.91		3,726.51
MW-13	02/18/09	3,809.59		83.10		3,726.49
MW-13	04/06/09			83.54		3,726.05
MW-13	06/10/09			84.02		3,725.57
MW-13	08/25/09			84.95		3,724.64
MW-13	12/10/09			85.13		3,724.46
MW-13	01/08/10			84.92		3,724.67
MW-13	02/18/10			84.80		3,724.79
MW-13	06/09/10			85.36		3,724.23
MW-13	09/21/10			86.64		3,722.95
MW-13	12/17/10			86.27		3,723.32
MW-13	03/25/11			86.46		3,723.13
MW-14	02/21/06	WELL INSTALLED 2/21/06 (TD-87.95)				
MW-14	03/01/06	3,809.46		77.31		3,732.15



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-14	05/25/06			78.29		3,731.17
MW-14	08/14/06			79.41		3,730.05
MW-14	11/29/06			80.37		3,729.09
MW-14	12/12/06			80.51		3,728.95
MW-14	01/11/07			80.53		3,728.93
MW-14	02/08/07			80.20		3,729.26
MW-14	02/20/07			80.61		3,728.85
MW-14	03/06/07			80.65		3,728.81
MW-14	03/14/07			80.02		3,729.44
MW-14	03/27/07			80.85		3,728.61
MW-14	03/29/07			80.59		3,728.87
MW-14	04/03/07			80.91		3,728.55
MW-14	04/11/07			80.59		3,728.87
MW-14	04/17/07			81.04		3,728.42
MW-14	05/24/07			81.10		3,728.36
MW-14	06/26/07			81.28		3,728.18
MW-14	09/14/07			81.88		3,727.58
MW-14	10/19/07			81.89		3,727.57
MW-14	12/03/07			81.78		3,727.68
MW-14	01/08/08			81.66		3,727.80
MW-14	01/28/08			81.68		3,727.78
MW-14	03/12/08			81.68		3,727.78
MW-14	04/22/08			82.11		3,727.35
MW-14	05/16/08			82.19		3,727.27
MW-14	06/19/08			82.41		3,727.05
MW-14	08/13/08			82.91		3,726.55
MW-14	10/15/08			83.23		3,726.23
MW-14	12/04/08			83.15		3,726.31
MW-14	01/21/09			82.08		3,727.38
MW-14	02/18/09	3,809.63		83.05		3,726.58
MW-14	04/06/09			83.43		3,726.20
MW-14	06/10/09			83.91		3,725.72



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-14	08/25/09			84.75		3,724.88
MW-14	12/10/09			85.04		3,724.59
MW-14	01/08/10			84.85		3,724.78
MW-14	02/18/10			84.74		3,724.89
MW-14	06/09/10			85.23		3,724.40
MW-14	09/21/10			86.47		3,723.16
MW-14	12/17/10			86.27		3,723.36
MW-14	03/25/11			86.30		3,723.33
MW-15	02/22/06	WELL INSTALLED 2/22/06 (TD-92.21)				
MW-15	03/01/06	3,810.77		78.50		3,732.27
MW-15	05/25/06			79.41		3,731.36
MW-15	08/14/06			80.54		3,730.23
MW-15	11/29/06			81.54		3,729.23
MW-15	12/12/06			81.63		3,729.14
MW-15	01/11/07			81.67		3,729.10
MW-15	02/08/07			81.43		3,729.34
MW-15	02/20/07			81.81		3,728.96
MW-15	03/06/07			81.85		3,728.92
MW-15	03/14/07			81.16		3,729.61
MW-15	03/27/07			82.07		3,728.70
MW-15	03/29/07			81.40		3,729.37
MW-15	04/03/07			82.11		3,728.66
MW-15	04/11/07			82.70		3,728.07
MW-15	04/17/07			82.24		3,728.53
MW-15	05/24/07			82.30		3,728.47
MW-15	06/26/07			82.48		3,728.29
MW-15	09/14/07			83.05		3,727.72
MW-15	10/19/07			83.06		3,727.71
MW-15	12/03/07			83.02		3,727.75
MW-15	01/08/08			82.89		3,727.88
MW-15	01/28/08			82.81		3,727.96



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-15	03/12/08			82.86		3,727.91
MW-15	04/22/08			83.23		3,727.54
MW-15	05/16/08			83.31		3,727.46
MW-15	06/19/08			83.57		3,727.20
MW-15	08/13/08			84.07		3,726.70
MW-15	10/15/08			84.41		3,726.36
MW-15	12/04/08			84.34		3,726.43
MW-15	01/21/09			84.07		3,726.70
MW-15	02/18/09	3,810.93		84.26		3,726.67
MW-15	04/06/09			84.61		3,726.32
MW-15	06/10/09			85.07		3,725.86
MW-15	08/25/09			85.89		3,725.04
MW-15	12/10/09			86.22		3,724.71
MW-15	01/08/10			86.04		3,724.89
MW-15	02/18/10			85.95		3,724.98
MW-15	06/09/10			86.41		3,724.52
MW-15	09/21/10			86.60		3,724.33
MW-15	12/17/10			87.41		3,723.52
MW-15	03/25/11			87.42		3,723.51
MW-16	02/23/06	WELL INSTALLED 2/23/06 (TD-91.23)				
MW-16	03/01/06	3,812.02		79.72		3,732.30
MW-16	05/25/06			80.58		3,731.44
MW-16	08/14/06			81.71		3,730.31
MW-16	11/29/06			82.74		3,729.28
MW-16	12/12/06			82.84		3,729.18
MW-16	01/11/07			82.90		3,729.12
MW-16	02/08/07			82.66		3,729.36
MW-16	02/20/07			83.06		3,728.96
MW-16	03/06/07			83.07		3,728.95
MW-16	03/14/07			82.69		3,729.33
MW-16	03/27/07			83.27		3,728.75



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-16	03/29/07			83.01		3,729.01
MW-16	04/03/07			83.33		3,728.69
MW-16	04/11/07			84.02		3,728.00
MW-16	04/17/07			83.44		3,728.58
MW-16	05/24/07			83.55		3,728.47
MW-16	06/26/07			83.69		3,728.33
MW-16	09/14/07			84.25		3,727.77
MW-16	10/19/07			84.28		3,727.74
MW-16	12/03/07			84.24		3,727.78
MW-16	01/08/08			84.10		3,727.92
MW-16	01/28/08			84.09		3,727.93
MW-16	03/12/08			84.07		3,727.95
MW-16	04/22/08			80.09		3,731.93
MW-16	05/16/08			85.55		3,726.47
MW-16	06/19/08			84.76		3,727.26
MW-16	08/13/08			85.25		3,726.77
MW-16	10/15/08			85.63		3,726.39
MW-16	12/04/08			85.58		3,726.44
MW-16	01/21/09			85.32		3,726.70
MW-16	02/18/09	3,812.23		85.53		3,726.70
MW-16	04/06/09			85.80		3,726.43
MW-16	06/10/09			86.26		3,725.97
MW-16	08/25/09			87.08		3,725.15
MW-16	12/10/09			85.30		3,726.93
MW-16	01/08/10			87.24		3,724.99
MW-16	02/18/10			87.17		3,725.06
MW-16	06/09/10			87.60		3,724.63
MW-16	09/21/10			88.78		3,723.45
MW-16	12/17/10			88.61		3,723.62
MW-16	03/25/11			88.75		3,723.48
MW-17	02/23/06	WELL INSTALLED 2/23/06 (TD-91.00)				



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-17	03/01/06	3,810.40		78.07		3,732.33
MW-17	05/25/06			78.92		3,731.48
MW-17	08/14/06			80.02		3,730.38
MW-17	11/29/06			81.10		3,729.30
MW-17	12/12/06			81.20		3,729.20
MW-17	01/11/07			81.25		3,729.15
MW-17	02/08/07			81.06		3,729.34
MW-17	02/20/07			81.45		3,728.95
MW-17	03/06/07			81.48		3,728.92
MW-17	03/14/07			80.89		3,729.51
MW-17	03/27/07			81.65		3,728.75
MW-17	03/29/07			81.40		3,729.00
MW-17	04/03/07			81.70		3,728.70
MW-17	04/11/07			82.11		3,728.29
MW-17	04/17/07			81.83		3,728.57
MW-17	05/22/07			81.92		3,728.48
MW-17	06/26/07			82.06		3,728.34
MW-17	09/14/07			82.59		3,727.81
MW-17	10/19/07			82.60		3,727.80
MW-17	12/03/07			82.56		3,727.84
MW-17	01/08/08			82.48		3,727.92
MW-17	01/28/08			82.47		3,727.93
MW-17	03/12/08			82.41		3,727.99
MW-17	04/22/08			80.42		3,729.98
MW-17	05/16/08			82.89		3,727.51
MW-17	06/19/08			83.10		3,727.30
MW-17	08/13/08			83.68		3,726.72
MW-17	10/15/08			83.98		3,726.42
MW-17	12/04/08			83.92		3,726.48
MW-17	01/21/09			83.66		3,726.74
MW-17	02/18/09	3,810.57		83.85		3,726.72
MW-17	04/06/09			84.17		3,726.40



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
MW-17	06/10/09			84.59		3,725.98
MW-17	08/25/09			85.37		3,725.20
MW-17	12/10/09			85.71		3,724.86
MW-17	01/08/10			85.60		3,724.97
MW-17	02/18/10			85.52		3,725.05
MW-17	06/09/10			85.92		3,724.65
MW-17	09/21/10			87.13		3,723.44
MW-17	12/17/10			86.95		3,723.62
MW-17	03/25/11			87.05		3,723.52
MW-18	03/18/08	WELL INSTALLED 3/18/08 (TD-90.05)				
MW-18	03/25/08	3,809.09		82.07		3,727.02
MW-18	04/22/08			82.19		3,726.90
MW-18	05/16/08			82.36		3,726.73
MW-18	06/19/08			82.61		3,726.48
MW-18	08/13/08			83.19		3,725.90
MW-18	10/15/08			83.45		3,725.64
MW-18	12/04/08			83.11		3,725.98
MW-18	01/21/09			82.78		3,726.31
MW-18	02/18/09	3,809.28		83.01		3,726.27
MW-18	04/06/09			83.60		3,725.68
MW-18	06/10/09			84.06		3,725.22
MW-18	08/25/09			85.13		3,724.15
MW-18	12/10/09			85.09		3,724.19
MW-18	01/08/10			84.82		3,724.46
MW-18	02/18/10			84.67		3,724.61
MW-18	06/09/10			85.36		3,723.92
MW-18	09/21/10			86.60		3,722.68
MW-18	12/17/10			86.18		3,723.10
MW-18	03/25/11			86.53		3,722.75



TABLE 1
SUMMARY OF HISTORICAL FLUID LEVEL MEASUREMENTS
Plains PIPELINE, L.P. - SRS#2002-10250
C. S. CAYLER
NMOCD REF. # AP-052 (OLD 1R-0382)
LEA COUNTY, NEW MEXICO
TALON/LPE PROJECT NUMBER 700376.049.01

Monitoring Well	Date Gauged	Surveyed Top of Casing Elevation (amsl)	Depth to PSH (btoc)	Depth to Water (btoc)	PSH Thickness (feet)	Corrected Groundwater Elevation (ft amsl)
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Corrected Groundwater Elevation = Top of Casing Elevation - (Depth to Water Below Top of Casing - (SG)(PSH Thickness)) SG=0.835

** Estimated Product Thickness using Total Depth of Well as the Depth to Water.

ND = Not Detected

NM = Not Measured

btoc = Below Top of Casing

amsl = Above Mean Sea Level



TABLE 1
MONITOR WELL SOIL ANALYTICAL SUMMARY
PLAINS PIPELINE, L.P.
C.S. CAYLER
NMOCDF REF. # AP-052 (OLS 1R-0382)
LEA COUNTY, NM SRS# 2002-10250
Talon/LPE Project Number 700376.049.01

Monitoring Well	Sampling Interval (bgs)	Sample Date	Lithology & Description	VOC ⁸ (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (m,p) (mg/Kg)	Xylene (o) (mg/Kg)	Xylenes (mg/Kg)	BTEX (mg/Kg)	TPH ⁷ (GRO ⁵) (mg/Kg)	TPH (DRO ⁵) (mg/Kg)	Total TPH (mg/Kg)
MW-1 (MW-1 was installed in the BH-1 soil boring)	5	10/17/2002	not logged	NA	122	395	164	318	121	439	1,120	10,800	15,700	26,500
	10	10/17/2002	not logged	NA	34.1	172	89.1	204	82.7	286.7	582	9,110	7,650	16,760
	15	10/17/2002	not logged	NA	12.9	68.6	32.1	53.1	20.4	73.5	187	2,680	2,220	4,900
	20	10/17/2002	not logged	NA	64.5	204	65.2	101	39.4	140.4	474	4,270	3,810	8,080
	25	10/17/2002	not logged	NA	130	398	174	271	105	376.0	1,078	9,190	10,800	19,990
	30	10/17/2002	not logged	NA	47.0	248	105	178	70.6	248.6	649	8,350	10,300	18,650
	35	10/17/2002	not logged	NA	58.1	189	75.6	130	50.7	180.7	503	6,670	8,330	15,000
	40	10/17/2002	not logged	NA	116	359	152	244	92.7	336.7	964	7,250	9,890	17,140
	45	10/17/2002	not logged	NA	89.7	403	152	243	95.9	338.9	984	5,720	7,430	13,150
	50	10/17/2002	not logged	NA	59.4	336	147	241	90.1	331.1	874	6,650	8,680	15,330
	60	10/17/2002	not logged	NA	75.2	334	126	233	93.6	326.6	862	8,230	10,800	19,030
	65	10/17/2002	not logged	NA	214	622	224	382	152	534.0	1,594	11,600	14,800	26,400
MW-2	0-7	--	Bottom of Excavation	--	--	--	--	--	--	--	--	--	--	--
	9-10	5/27/2004	Caliche	1157	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	13-15	5/27/2004	Caliche	1282	5.35	29.1	7.99	25.1	10.6	35.7	78.1	1,430	2,260	3,690
	19-20	5/27/2004	Caliche	1312	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	24-25	5/27/2004	Caliche	1555	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	29-30	5/27/2004	Sand	1899	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	34-35	5/27/2004	Sand	1360	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	38-40	5/27/2004	Sand	1821	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	43-45	5/27/2004	Sand	480	0.449	6.42	6.14	13.4	5.73	19.1	32.1	1,180	3,290	4,470
	48-50	5/27/2004	Sand	2434	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	53-55	5/27/2004	Sand	1030	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	58-60	5/27/2004	Sand	1479	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	63-65	5/27/2004	Sand	1477	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	68-70	5/27/2004	Sand	1074	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	73-75	5/27/2004	Sand (moist)	2999	57.6	330	146	238	81.6	319.6	853	15,600	22,500	38,100
	78-80	5/27/2004	Sand (wet)	1163	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-2A	0-10	4/19/2011	Sandy gravel	4.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10-20	4/19/2011	Sandy gravel	20.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	20-30	4/19/2011	Sand	187	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	30-40	4/19/2011	Sand	395	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	40-50	4/19/2011	Sand	127	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	50-60	4/19/2011	Sand	162	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	60-70	4/19/2011	Sand	931	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	70-80	4/19/2011	Silty Sand	1040	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	80-90	4/19/2011	Sand	154	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	90-100	4/19/2011	Sand	64.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA



TABLE 1
MONITOR WELL SOIL ANALYTICAL SUMMARY
PLAINS PIPELINE, L.P.
C.S. CAYLER
NMOCDF REF. # AP-052 (OLS 1R-0382)
LEA COUNTY, NM SRS# 2002-10250
Talon/LPE Project Number 700376.049.01

Monitoring Well	Sampling Interval (bgs)	Sample Date	Lithology & Description	VOC ^a (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (m,p) (mg/Kg)	Xylene (o) (mg/Kg)	Xylenes (mg/Kg)	BTEX (mg/Kg)	TPH ⁷ (GRO ⁶) (mg/Kg)	TPH (DRO ⁵) (mg/Kg)	Total TPH (mg/Kg)
	100-110	4/19/2011	Sand	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-3	3-5	6/9/2004	tan medium to coarse sand w/ some pebbles	121	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	8-10	6/9/2004	tan medium to coarse sand w/ some pebbles	23.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	13-15	6/9/2004	tan fine to medium sand w/ some pebbles	38.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	18-20	6/9/2004	tan fine to medium sand w/ some pebbles	7.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	23-25	6/9/2004	tan fine to medium sand w/ some pebbles	111	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	28-30	6/9/2004	red brown fine to coarse sand	91.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	33-35	6/9/2004	tan fine to medium sand w/ caliche	86.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	38-40	6/9/2004	red brown fine to medium sand	82.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	43-45	6/9/2004	tan fine to medium sand	92.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	48-50	6/9/2004	tan sand	101	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	53-55	6/9/2004	tan sand	126	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	58-60	6/9/2004	tan sand w/ caliche (odorous)	924	<0.025	<0.025	<0.025	<0.025	<0.025		<0.025	<10.0	<10.0	<10.0
	63-65	6/9/2004	tan sand (odorous)	161	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	68-70	6/9/2004	red brown fine to medium sand w/ some clay (odorous)	1770	171	450	162	291	107		1181	15,700	16,400	32,100
	73-75	6/9/2004	red brown fine to coarse sand w/ some clay (odorous)	1261	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	78-80	6/9/2004	red brown fine sand w/ some clay & pebbles (odorous)	151	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-4	3-5	6/15/2004	Caliche	232	NA	NA	NA	NA	NA		NA	NA	NA	NA
	8-10	6/15/2004	Caliche	2.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	13-15	6/15/2004	Caliche	1.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	18-20	6/15/2004	Caliche	0.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	23-25	6/15/2004	Caliche sand	45.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	28-30	6/15/2004	Sand	0.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	33-35	6/15/2004	Sand	0.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	38-40	6/15/2004	Sand	0.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	43-45	6/15/2004	Sand	0.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	48-50	6/15/2004	Sand	17.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	53-55	6/15/2004	Sand	8.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	58-60	6/15/2004	Sand	7.0	<0.025	<0.025	<0.025	<0.025	<0.025		<0.025	<10.0	<10.0	<10.0
	63-65	6/15/2004	Sand	90.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	68-70	6/15/2004	Sand (damp)	1060	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	73-75	6/15/2004	Sand (damp)	1353	13.7	96.0	63.6	107	45.8		326	6,950	20,200	27,150
	78-80	6/15/2004	Sand (wet)	112	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	3-5	6/14/2004	Caliche	184	NA	NA	NA	NA	NA		NA	NA	NA	NA
	8-10	6/14/2004	Caliche	130	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	13-15	6/14/2004	Caliche	144	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	18-20	6/14/2004	Caliche	210	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA



TABLE 1
MONITOR WELL SOIL ANALYTICAL SUMMARY
PLAINS PIPELINE, L.P.
C.S. CAYLER
NMOCDF REF. # AP-052 (OLS 1R-0382)
LEA COUNTY, NM SRS# 2002-10250
Talon/LPE Project Number 700376.049.01

Monitoring Well	Sampling Interval (bgs ⁴)	Sample Date	Lithology & Description	VOC ⁸ (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (m,p) (mg/Kg)	Xylene (o) (mg/Kg)	Xylenes (mg/Kg)	BTEX (mg/Kg)	TPH ⁷ (GRO ⁶) (mg/Kg)	TPH (DRO ⁵) (mg/Kg)	Total TPH (mg/Kg)
MW-5	23-25	6/14/2004	Caliche sand	157	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	28-30	6/14/2004	Sand	134	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	33-35	6/14/2004	Sand	178	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	38-40	6/14/2004	Sand	352	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	43-45	6/14/2004	Sand	236	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	48-50	6/14/2004	Sand	246	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	53-55	6/14/2004	Sand	137	<0.025	0.026	<0.025	0.045	<0.025		<0.025	<10.0	15.8	15.8
	58-60	6/14/2004	Sand	199	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	63-65	6/14/2004	Sand	208	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	68-70	6/14/2004	Sand (damp)	1409	216	491	145	235	81.9		1169	20,800	22,800	43,600
	73-75	6/14/2004	Caliche sand (damp)	654	13.7	96.0	63.6	107	45.8		326	6,950	20,200	27,150
	78-80	6/14/2004	Sand (wet)	169	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-6	0-25	10/21/2004	Caliche	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	25-30	10/21/2004	Reddish brown sand caliche mix (caliche top 1')	27.6	<.020	<.020	<.020	<.040	<.020		<.020	<2.5	<5	<5
	33-35	10/21/2004	Reddish brown sand caliche mix (caliche top 1')	26.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	38-40	10/21/2004	Tan fine sand	44.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	43-45	10/21/2004	Tan fine sand	37.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	48-50	10/21/2004	Reddish brown fine sand	74.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	55-60	10/21/2004	Reddish brown fine sand	99.4	<.020	<.020	<.020	<.040	<.020		<.020	<2.5	<5	<5
	63-65	10/21/2004	Reddish brown fine sand	51.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	68-70	10/21/2004	Reddish brown fine sand and angular rocks	62.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	74-75	10/21/2004	Reddish brown fine sand (damp)	54.2	<.020	<.020	<.020	<.040	<.020		<.020	<2.5	<5	<5
MW-7	0-27	10/21/2004	Caliche	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS
	27-28	10/21/2004	Red fine sand	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	28-29	10/21/2004	Caliche	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	29-30	10/21/2004	Fine red sand	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	30-35	10/21/2004	Fine reddish white caliche sand mix	28.1	<.020	<.020	<.020	<.040	<.020		<.020	<2.5	<5	<5
	38-40	10/21/2004	Fine reddish brown sand (top 6" whitish)	50.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	43-45	10/21/2004	Fine reddish brown sand w/ hard packed pebbles	53.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	48-50	10/21/2004	Fine reddish brown sand w/ some hard packed pebbles	33.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	50-55	10/21/2004	Fine reddish brown sand	79.2	<.020	<.020	<.020	<.040	<.020		<.020	<2.5	<5	<5
	55-60	10/21/2004	Fine reddish brown sand w/ some hard packed pebbles	49.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	63-65	10/21/2004	Fine reddish brown sand	79.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	68-70	10/21/2004	NS (ng stuck-drilled past)	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	74-75	10/21/2004	Fine reddish brown sand w/some gravel (odorous)	223	20.3	92.0	36.5	66.8	23.2		239	1,560	1,570	3,130
	0-10	10/20/2004	Caliche and gravel	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10-20	10/20/2004	Gravelly sand	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA



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PLAINS PIPELINE, L.P.
C.S. CAYLER
NMOCDF REF. # AP-052 (OLS 1R-0382)
LEA COUNTY, NM SRS# 2002-10250
Talon/LPE Project Number 700376.049.01

Monitoring Well	Sampling Interval (bgs)	Sample Date	Lithology & Description	VOC ^a (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (m,p) (mg/Kg)	Xylene (o) (mg/Kg)	Xylenes (mg/Kg)	BTEX (mg/Kg)	TPH ⁷ (GRO ⁶) (mg/Kg)	TPH (DRO ⁵) (mg/Kg)	Total TPH (mg/Kg)
MW-7A	20-30	10/20/2004	Gravelly sand	4.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	30-40	10/20/2004	Gravelly sand	3.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	40-50	10/20/2004	Gravelly sand	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	50-60	10/20/2004	Sand	5.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	60-70	10/20/2004	Sand	25.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	70-80	10/20/2004	Sand & sandstone	255.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	80-90	10/20/2004	Sand & sandstone	120.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	90-100	10/20/2004	Sand & sandstone	16.9	<0.200	5.10	9.16	NA	NA	26.1	NA	NA	NA	4990
	100-110	10/20/2004	Sand & sandstone	NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8	0-5	10/20/2004	Caliche	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS
	5-15	10/20/2004	Fine reddish brown sand	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS
	15-30	10/20/2004	Caliche	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS
	30-35	10/20/2004	Fine tan sand caliche mix	21.3	<.020	<.020	<.020	<.040	<.020		<.020	<2.5	<5	<5
	37-38	10/20/2004	Fine reddish brown sand	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS
	38-40	10/20/2004	Fine tan sand caliche mix	27.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	43-45	10/20/2004	Fine reddish brown sand w/ some pebbles	26.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	45-50	10/20/2004	Fine reddish brown sand	22.9	<.020	<.020	<.020	<.040	<.020		<.020	<2.5	<5	<5
	53-55	10/20/2004	Fine reddish brown sand w/ some pebbles	27.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	58-60	10/20/2004	Fine reddish brown sand w/ angular rock	45.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	63-65	10/20/2004	Fine reddish brown sand w/ angular rock	20.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	68-70	10/20/2004	Fine reddish brown sand w/ angular rock	23.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-8A	74-75	10/20/2004	Fine reddish brown sand (wet green black staining odorous)	75.1	<.020	<.020	<.020	<.040	<.020		<.020	<2.5	<5	<5
	0-10	04/20/11		ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10-20	04/20/11		ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	20-30	04/20/11		3.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	30-40	04/20/11		27.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	40-50	04/20/11		22.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	50-60	04/20/11		7.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	60-70	04/20/11		55.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	70-80	04/20/11		110.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	80-90	04/20/11		10.7	<0.100	2.96	6.16	NA	NA	18.30	NA	NA	NA	33.50
	90-100	04/20/11		24.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-9	100-110	04/20/11		NM	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	0-5	10/19/2004	Caliche	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS
	5-12	10/19/2004	Sand	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS
	12-24.5	10/19/2004	Caliche	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS



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PLAINS PIPELINE, L.P.
C.S. CAYLER
NMOCDF REF. # AP-052 (OLS 1R-0382)
LEA COUNTY, NM SRS# 2002-10250
Talon/LPE Project Number 700376.049.01

Monitoring Well	Sampling Interval (bgs ⁴)	Sample Date	Lithology & Description	VOC ⁸ (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (m,p) (mg/Kg)	Xylene (o) (mg/Kg)	Xylenes (mg/Kg)	BTEX (mg/Kg)	TPH ⁷ (GRO ⁶) (mg/Kg)	TPH (DRO ⁵) (mg/Kg)	Total TPH (mg/Kg)
	24-5-25	10/19/2004	Red brown fine sand w/ some silt and clay	18.0	<.020	<.020	<.020	<.040	<.020		<.020	<2.5	<5	<5
	33-35	10/19/2004	Tan fine sand compacted	15.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	38-40	10/19/2004	Reddish brown fine sand	38.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	43-45	10/19/2004	Reddish brown fine sand	17.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	48-50	10/19/2004	Reddish brown fine sand	33.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	53-55	10/19/2004	Reddish brown fine sand	42.6	<.020	<.020	<.020	<.040	<.020		<.020	<2.5	<5	<5
	58-60	10/19/2004	Reddish brown fine sand w/ some pebbles	40.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	63-65	10/19/2004	Reddish brown fine sand w/ some pebbles	21.2	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	68-70	10/19/2004	Reddish brown fine sand (damp)	24.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	74-75	10/19/2004	Reddish brown fine sand (wet)	16.0	<.020	<.020	<.020	<.040	<.020		<.020	<2.5	<5	<5
MW-10	0-5	10/20/2004	Caliche	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS
	5-12	10/20/2004	Sand	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS
	12-29	10/20/2004	Caliche	NS	NS	NS	NS	NS	NS		NS	NS	NS	NS
	29-30	10/20/2004	Red brown fine sand w/ some silt and clay	20.1	<.020	<.020	<.020	<.040	<.020		<.020	<2.5	<5	<5
	33-35	10/20/2004	Tan fine sand compacted	6.9	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	38-40	10/20/2004	Reddish brown fine sand	43.5	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	43-45	10/20/2004	Reddish brown fine sand	29.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	45-50	10/20/2004	Reddish brown fine sand	23.2	<.020	<.020	<.020	<.040	<.020		<.020	<2.5	<5	<5
	53-55	10/20/2004	Reddish brown fine sand	48.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	58-60	10/20/2004	Reddish brown fine sand w/ some pebbles	42.7	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	63-65	10/20/2004	Reddish brown fine sand w/ some pebbles	28.0	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-11	30'-31'	2/21/2006	Tan fine sand - sandstone	0.2	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250		<0.0250	<10.0	<10.0	<10.0
	40'-41'	2/21/2006	Tan fine sand	0.3	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250		<0.0250	<10.0	<10.0	<10.0
	70'-71'	2/21/2006	Tan fine sand	0.1	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250		<0.0250	<10.0	<10.0	<10.0
MW-12	30'-31'	2/23/2006	Tan fine sand - sandstone	2.3	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250		<0.0250	<10.0	<10.0	<10.0
	50'-51'	2/23/2006	Tan fine sand	1.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250		<0.0250	<10.0	<10.0	<10.0
	75'-76'	2/23/2006	Tan fine sand	1.2	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250		<0.0250	<10.0	99.2	99.2
MW-12A	0-10'	4/19/2011	Caliche Gravel	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10-20'	4/19/2011	Gravel	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	20-30'	4/19/2011	Gravel	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	30-40'	4/19/2011	Gravel	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	40-50'	4/19/2011	Sand	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	50-60'	4/19/2011	Sand	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	60-70'	4/19/2011	Sand	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA



TABLE 1
MONITOR WELL SOIL ANALYTICAL SUMMARY
PLAINS PIPELINE, L.P.
C.S. CAYLER
NMOCD REF. # AP-052 (OLS 1R-0382)
LEA COUNTY, NM SRS# 2002-10250
Talon/LPE Project Number 700376.049.01

Monitoring Well	Sampling Interval (bgs ⁴)	Sample Date	Lithology & Description	VOC ⁸ (ppm)	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylenes (m,p) (mg/Kg)	Xylene (o) (mg/Kg)	Xylenes (mg/Kg)	BTEX (mg/Kg)	TPH ⁷ (GRO ⁶) (mg/Kg)	TPH (DRO ⁵) (mg/Kg)	Total TPH (mg/Kg)
	70'-80'	4/19/2011	Sand	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	80'-90'	4/19/2011	Sand	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	90'-100'	4/19/2011	Sand	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	100'-110'	4/19/2011	Sand and gravel	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
MW-13	30'-31'	2/22/2006	Tan fine sand - sandstone	0.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250		<0.0250	<10.0	<10.0	<10.0
	50'-51'	2/22/2006	Tan fine sand - sandstone	0.2	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250		<0.0250	<10.0	<10.0	<10.0
	70'-71'	2/22/2006	Tan fine sand - sandstone	0.4	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250		<0.0250	<10.0	<10.0	<10.0
MW-14	30'-31'	2/21/2006	Tan fine sand - sandstone	0.1	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250		<0.0250	<10.0	<10.0	<10.0
	50'-51'	2/21/2006	Tan fine sand - sandstone	0.3	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250		<0.0250	<10.0	12	12
	70'-71'	2/21/2006	Tan fine sand - sandstone	0.1	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250		<0.0250	<10.0	<10.0	<10.0
MW-15	30'-31'	2/22/2006	Tan fine sand - sandstone	0.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250		<0.0250	<10.0	<10.0	<10.0
	50'-51'	2/22/2006	Tan fine sand - sandstone	0.6	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250		<0.0250	<10.0	<10.0	<10.0
	70'-71'	2/22/2006	Tan fine sand - sandstone	0.8	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250		<0.0250	<10.0	<10.0	<10.0
MW-16	30'-31'	2/23/2006	Tan fine sand - sandstone	0.7	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250		<0.0250	<10.0	<10.0	<10.0
	50'-51'	2/23/2006	Tan fine sand - sandstone	2.0	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250		<0.0250	<10.0	<10.0	<10.0
	70'-71'	2/23/2006	Tan fine sand	0.9	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250		<0.0250	<10.0	<10.0	<10.0
MW-17	30'-31'	2/23/2006	Tan fine sand - sandstone	0.5	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250		<0.0250	<10.0	<10.0	<10.0
	50'-51'	2/23/2006	Tan fine sand - sandstone	1.9	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250		<0.0250	<10.0	<10.0	<10.0
	70'-71'	2/23/2006	Tan fine sand - sandstone	0.7	<0.0250	<0.0250	<0.0250	<0.0250	<0.0250		<0.0250	<10.0	<10.0	<10.0
MW-18	5'	3/18/2008	Tan fine sand- sandstone		<0.0100	<0.0100	<0.0100			<0.0100	<0.0100	<1.00	<50.0	<51.0
	40'	3/18/2008	Tan fine sand - sandstone		<0.0100	<0.0100	<0.0100			<0.0100	<0.0100	<1.00	<50.0	<51.0
	75'	3/18/2008	Tan fine sand - sandstone		<0.0100	<0.0100	<0.0100			<0.0100	<0.0100	<1.00	<50.0	<51.0
NMOCD Remedial Thresholds					10						50			100

¹ Bolded values are in excess of the NMOCD Remediation Thresholds

² NA : Not Analyzed

³ NS : Not Sampled

⁴ bgs : feet below ground surface

⁵ DRO : Diesel range organics

⁶ GRO : Gasoline range organics

⁷ TPH : Total Petroleum Hydrocarbons

⁸ VOC : Volatile Organic Constituent vapor headspace

APPENDIX C

Laboratory Analytical Data Reports and Chains of Custody Documentation

Summary Report

Steve Killingsworth
Talon LPE-Midland
2901 State Highway 349
Midland, TX 79706

Report Date: April 6, 2011

Work Order: 11032906



Project Location: Cayler, NM
Project Number: 700376.049.01
SRS #: 2002-10250

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
261993	MW-8A (80-90)	soil	2011-03-22	00:00	2011-03-25
261994	MW-7A (80-90)	soil	2011-03-23	00:00	2011-03-25

Sample - Field Code	BTEX				MTBE	TPH 418.1
	Benzene (mg/Kg)	Toluene (mg/Kg)	Ethylbenzene (mg/Kg)	Xylene (mg/Kg)	MTBE (mg/Kg)	TRPHC (mg/Kg)
261993 - MW-8A (80-90)	<0.100	2.96	6.16	18.3		3350
261994 - MW-7A (80-90)	<0.200	5.10	9.16	26.1		4990

TRACE ANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•379•1296 806•794•1296 FAX 806•794•1296
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5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: info@traceanalysis.com

Certifications

WBENC: 237019

HUB: 1752439743100-86536
NCTRCA WFWB38444Y0909

DBE: VN 20657

NELAP Certifications

Lubbock: T104704219-08-TX
LELAP-02003
Kansas E-10317

El Paso: T104704221-08-TX
LELAP-02002

Midland: T104704392-08-TX

Analytical and Quality Control Report

Steve Killingsworth
Talon LPE-Midland
2901 State Highway 349
Midland, TX, 79706

Report Date: April 6, 2011

Work Order: 11032906



Project Location: Cayler, NM
Project Number: 700376.049.01
SRS #: 2002-10250

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
261993	MW-8A (80-90)	soil	2011-03-22	00:00	2011-03-25
261994	MW-7A (80-90)	soil	2011-03-23	00:00	2011-03-25

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.



Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Standard Flags

B - The sample contains less than ten times the concentration found in the method blank.

Case Narrative

Samples for project were received by TraceAnalysis, Inc. on 2011-03-25 and assigned to work order 11032906. Samples for work order 11032906 were received intact at a temperature of 2.5 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	67765	2011-03-29 at 14:17	79865	2011-03-29 at 14:17
TPH 418.1	E 418.1	67956	2011-04-05 at 15:00	80089	2011-04-05 at 20:17

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 11032906 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 261993 - MW-8A (80-90)

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 79865
Prep Batch: 67765

Analytical Method: S 8021B
Date Analyzed: 2011-03-29
Sample Preparation: 2011-03-29

Prep Method: S 5035
Analyzed By: ER
Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	1	<0.100	mg/Kg	5	0.0200
Toluene		2.96	mg/Kg	5	0.0200
Ethylbenzene		6.16	mg/Kg	5	0.0200
Xylene		18.3	mg/Kg	5	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.70	mg/Kg	5	2.00	85	70 - 112
4-Bromofluorobenzene (4-BFB)	2	2.75	mg/Kg	5	2.00	138	72.7 - 114

Sample: 261993 - MW-8A (80-90)

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 80089
Prep Batch: 67956

Analytical Method: E 418.1
Date Analyzed: 2011-04-05
Sample Preparation: 2011-04-05

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		3350	mg/Kg	10	10.0

Sample: 261994 - MW-7A (80-90)

Laboratory: Lubbock
Analysis: BTEX
QC Batch: 79865
Prep Batch: 67765

Analytical Method: S 8021B
Date Analyzed: 2011-03-29
Sample Preparation: 2011-03-29

Prep Method: S 5035
Analyzed By: ER
Prepared By: ER

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene	3	<0.200	mg/Kg	10	0.0200
Toluene		5.10	mg/Kg	10	0.0200
Ethylbenzene		9.16	mg/Kg	10	0.0200

¹Sample ran at dilution due to hydrocarbons with a retention time greater than xylene.

²High surrogate recovery due to peak interference.

³Sample ran at dilution due to hydrocarbons with a retention time greater than xylene.

continued ...

Report Date: April 6, 2011
700376.049.01

Work Order: 11032906

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Cayler, NM

sample 261994 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Xylene		26.1	mg/Kg	10	0.0200

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.77	mg/Kg	10	2.00	88	70 - 112
4-Bromofluorobenzene (4-BFB)	⁴	2.60	mg/Kg	10	2.00	130	72.7 - 114

Sample: 261994 - MW-7A (80-90)

Laboratory: Lubbock
Analysis: TPH 418.1
QC Batch: 80089
Prep Batch: 67956

Analytical Method: E 418.1
Date Analyzed: 2011-04-05
Sample Preparation: 2011-04-05

Prep Method: N/A
Analyzed By: DS
Prepared By: DS

Parameter	Flag	RL Result	Units	Dilution	RL
TRPHC		4990	mg/Kg	10	10.0

Method Blank (1) QC Batch: 79865

QC Batch: 79865
Prep Batch: 67765

Date Analyzed: 2011-03-29
QC Preparation: 2011-03-29

Analyzed By: ER
Prepared By: ER

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.00335	mg/Kg	0.02
Toluene		<0.00471	mg/Kg	0.02
Ethylbenzene		<0.00440	mg/Kg	0.02
Xylene		<0.00557	mg/Kg	0.02

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.83	mg/Kg	1	2.00	92	70 - 112
4-Bromofluorobenzene (4-BFB)		1.80	mg/Kg	1	2.00	90	72.7 - 114

⁴High surrogate recovery due to peak interference.

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Method Blank (1) QC Batch: 80089

QC Batch: 80089
Prep Batch: 67956

Date Analyzed: 2011-04-05
QC Preparation: 2011-04-05

Analyzed By: DS
Prepared By: DS

Parameter	Flag	MDL Result	Units	RL
TRPHC		<4.79	mg/Kg	10

Laboratory Control Spike (LCS-1)

QC Batch: 79865
Prep Batch: 67765

Date Analyzed: 2011-03-29
QC Preparation: 2011-03-29

Analyzed By: ER
Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.93	mg/Kg	1	2.00	<0.00335	96	75.4 - 110
Toluene	1.93	mg/Kg	1	2.00	<0.00471	96	73.2 - 114
Ethylbenzene	1.92	mg/Kg	1	2.00	<0.00440	96	74.4 - 111
Xylene	5.73	mg/Kg	1	6.00	<0.00557	96	75.9 - 113

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.91	mg/Kg	1	2.00	<0.00335	96	75.4 - 110	1	20
Toluene	1.91	mg/Kg	1	2.00	<0.00471	96	73.2 - 114	1	20
Ethylbenzene	1.91	mg/Kg	1	2.00	<0.00440	96	74.4 - 111	0	20
Xylene	5.72	mg/Kg	1	6.00	<0.00557	95	75.9 - 113	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.85	1.74	mg/Kg	1	2.00	92	87	67.6 - 113
4-Bromofluorobenzene (4-BFB)	1.76	1.74	mg/Kg	1	2.00	88	87	72 - 113

Laboratory Control Spike (LCS-1)

QC Batch: 80089
Prep Batch: 67956

Date Analyzed: 2011-04-05
QC Preparation: 2011-04-05

Analyzed By: DS
Prepared By: DS

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC	279	mg/Kg	1	250	<4.79	112	84.3 - 122

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

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Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
TRPHC	279	mg/Kg	1	250	<4.79	112	84.3 - 122	0	

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 261823

QC Batch: 79865
Prep Batch: 67765

Date Analyzed: 2011-03-29
QC Preparation: 2011-03-29

Analyzed By: ER
Prepared By: ER

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.11	mg/Kg	1	2.00	<0.00335	106	57.5 - 115
Toluene	2.24	mg/Kg	1	2.00	<0.00471	112	59.8 - 125
Ethylbenzene	2.34	mg/Kg	1	2.00	<0.00440	117	60.5 - 130
Xylene	7.00	mg/Kg	1	6.00	<0.00557	117	62.6 - 131

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	2.03	mg/Kg	1	2.00	<0.00335	102	57.5 - 115	4	20
Toluene	2.18	mg/Kg	1	2.00	<0.00471	109	59.8 - 125	3	20
Ethylbenzene	2.28	mg/Kg	1	2.00	<0.00440	114	60.5 - 130	3	20
Xylene	6.79	mg/Kg	1	6.00	<0.00557	113	62.6 - 131	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2.09	1.94	mg/Kg	1	2	104	97	59.3 - 128
4-Bromofluorobenzene (4-BFB)	2.12	1.99	mg/Kg	1	2	106	100	67.4 - 130

Matrix Spike (MS-1) Spiked Sample: 261993

QC Batch: 80089
Prep Batch: 67956

Date Analyzed: 2011-04-05
QC Preparation: 2011-04-05

Analyzed By: DS
Prepared By: DS

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
TRPHC	⁵ 3760	mg/Kg	10	250	3350	164	43 - 161

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

⁵Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

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Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
TRPHC	3670	mg/Kg	10	250	3350	128	43 - 161	2	

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (CCV-2)

QC Batch: 79865

Date Analyzed: 2011-03-29

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0986	99	80 - 120	2011-03-29
Toluene		mg/Kg	0.100	0.0985	98	80 - 120	2011-03-29
Ethylbenzene		mg/Kg	0.100	0.0942	94	80 - 120	2011-03-29
Xylene		mg/Kg	0.300	0.288	96	80 - 120	2011-03-29

Standard (CCV-3)

QC Batch: 79865

Date Analyzed: 2011-03-29

Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.105	105	80 - 120	2011-03-29
Toluene		mg/Kg	0.100	0.104	104	80 - 120	2011-03-29
Ethylbenzene		mg/Kg	0.100	0.102	102	80 - 120	2011-03-29
Xylene		mg/Kg	0.300	0.304	101	80 - 120	2011-03-29

Standard (CCV-1)

QC Batch: 80089

Date Analyzed: 2011-04-05

Analyzed By: DS

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC		mg/Kg	100	101	101	80 - 120	2011-04-05

Standard (CCV-2)

QC Batch: 80089

Date Analyzed: 2011-04-05

Analyzed By: DS

Report Date: April 6, 2011
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Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
TRPHC		mg/Kg	100	101	101	80 - 120	2011-04-05

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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Lubbock, Texas 79424
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2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: TALON LPE Phone #: 432-522-2133

Address: (Street, City, Zip) 2901 S. ST. HWY 349 Fax #: 432-522-2180

Contact Person: Killingworth E-mail: skillingworth@talonlpe.com

Invoice to: (If different from above) Plains Pipeline SRS # 2002-10250

Project #: 700376.049.01 Project Name:

Project Location (Including state): Caylor, NM Sampler Signature: [Signature]

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX				PRESERVATIVE METHOD						SAMPLING		DATE	TIME	MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	PH 418.17 TX1005 / TX1005 BX(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, F, S, NO3, NO2, Alkalinity	Na, Ca, Mg, K, TDS, EC	Turn Around Time if different from standard	Hold
				WATER	SOIL	AIR	SLUDGE	HCl	HNO3	H2SO4	NaOH	ICE	NONE																									
261993	mw-8A (80-90)	1	4oz	X								X						X	X																			
994	mw-7A (80-90)	1	4oz	X								X						X	X																			

Relinquished by: [Signature] Company: TALON Date: 3/25/11 Time: 16:05 Received by: [Signature] Company: Trace Date: 3/25/11 Time: 16:05 INST 25 OBS 25 COR 25

Relinquished by: [Signature] Company: Trace Date: 3/25/11 Time: 17:00 Received by: [Signature] Company: Trace Date: 3/25/11 Time: 17:00 INST 24 OBS 24 COR 24

Relinquished by: [Signature] Company: Trace Date: 3/25/11 Time: 17:00 Received by: [Signature] Company: Trace Date: 3/25/11 Time: 17:00 INST 24 OBS 24 COR 24

LAB USE ONLY

Intact Y / N

Headspace Y / N / NA

Log-In Review [Signature]

REMARKS: All tests - Lubbock

☐ Dry Weight Basis Required

☐ TRRP Report Required

☐ Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

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Canyon / LS 24197788

APPENDIX D

Boring Logs, Drilling and Plugging Reports

SOIL BORING / MONITORING WELL LOG

PROJECT: C. S. Cayler Monitor Well Installation

DRILLING COMPANY: Talon LPE

PROJECT NUMBER: 700376.049.01

DRILLER: Gabe

CLIENT: Plains Pipeline L.P.

DRILLING METHOD: Mud Rotary

BORING / WELL NUMBER: MW-2A

BORE HOLE DIAMETER: 7 7/8

TOTAL DEPTH: 110

SCREEN: Diam. 4 Length 30 Slot Size 0.010

SURFACE ELEVATION:

CASING: Diam. 4 Length 82.32 Type Sched. 40 PVC

GEOLOGIST: John Franklin

DATE DRILLED: 4/19/11

PAGE 1 of 1

Depth (FT.)	Soil Symbol	Well Construction	PID Readings	Samples	Sample Interval	Description Interval	Description of Stratum	Depth (FT.)
0			4.7		0'-10'	0'	Sandy Gravel: well graded, eroded caliche fragments and fine grained sand calcareous, pinkish gray (7.5yr 7/6)	0
			20.8		10'-20'	10'	Sandy Gravel: well graded, eroded caliche fragments and 35% very fine to fine grained sand; calcareous, very pale brown, (10yr 8/2)	
20			187		20'-30'	20'	Sand: poorly graded, very fine to fine grained, 20% coarse gravel, weakly cemented, pale brown (10yr 8/2), no hydrocarbon odor	20
			395		30'-40'	30'	Sand: as above	
40			127		40'-50'	40'	Sand: very fine to fine grained, 10% gravel, unconsolidated, very pale brown (10yr 7/4), no stain, no odor	40
			162		50'-60'	50'	Sand: as above	
60			931		60'-70'	60'	Sand: very fine to fine grained, well sorted, 5% gravel, light yellowish brown(10yr 6/4), no stain, moderate hydrocarbon odor	60
			1040		70'-80'	70'	Silty sand: very fine to fine grained to silt, loess, trace gravel, light yellowish brown (10yr 6/4) strong hydrocarbon odor	
80			154		80'-90'	80'	Sand: well sorted, weakly cemented, very fine to fine grained, very pale brown (10yr 7/3) moist, no stain, faint hydrocarbon odor	80
			64.9		90'-100'	90'	Sand: as above	
100								100
						110'	Bottom of Hole	

REMARKS:





WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	POD NUMBER (WELL NUMBER) MW-2A				OSE FILE NUMBER(S) N/A				
	WELL OWNER NAME(S) Plains Pipeline, L.P.				PHONE (OPTIONAL) 713-646-4657 (Jeff Dann)				
	WELL OWNER MAILING ADDRESS 333 Clay St. - Suite 1600				CITY Houston		STATE Texas	ZIP 77002	
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 52	SECONDS 3.56 N	* ACCURACY REQUIRED - ONE TENTH OF A SECOND * DATUM REQUIRED WGS 84				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS Rural									
2. OPTIONAL	(2.5 ACRE) 1/4	(10 ACRE) 1/4	(40 ACRE) 1/4	(160 ACRE) 1/4	SECTION	TOWNSHIP ☐ NORTH ☐ SOUTH	RANGE ☐ EAST ☐ WEST		
	SUBDIVISION NAME				LOT NUMBER	BLOCK NUMBER	UNIT/TRACT		
	HYDROGRAPHIC SURVEY				MAP NUMBER		TRACT NUMBER		
3. DRILLING INFORMATION	LICENSE NUMBER 1575		NAME OF LICENSED DRILLER Shane Currie			NAME OF WELL DRILLING COMPANY Talon Drilling			
	DRILLING STARTED 4/28/11		DRILLING ENDED 4/28/11		DEPTH OF COMPLETED WELL (FT) 109.32	BORE HOLE DEPTH (FT) 110	DEPTH WATER FIRST ENCOUNTERED (FT) 87.44		
	COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☒ SHALLOW (UNCONFINED)						STATIC WATER LEVEL IN COMPLETED WELL (FT) 87.44		
	DRILLING FLUID: ☐ AIR ☒ MUD ☐ ADDITIVES - SPECIFY								
	DRILLING METHOD: ☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY								
	DEPTH (FT)		BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)	
	FROM	TO							
	+3		79.32	8.5	Schedule 40 PVC	Thread	4	0.237	
	79.32		109.32	8.5	Schedule 40 PVC	Thread	4	0.237	0.010
4. WATER BEARING STRATA	DEPTH (FT)		THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)				YIELD (GPM)	
	FROM	TO							
	0	3	3	Gravelly sandy loam					
	3	30	27	Gravelly sand					
	30	85	55	Sand and silty sand					
	85	110	25	Sand and weakly cemented sandstone, water bearing				not tested	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA						TOTAL ESTIMATED WELL YIELD (GPM)			

FOR OSE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION	PAGE 1 OF 2	

5. SEAL AND PUMP	TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED ☐ TURBINE ☐ CYLINDER ☒ OTHER – SPECIFY 4" pneumatic total fluids AP4						
	ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT)		BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
		FROM	TO				
		0	2	8.5	cement	0.6	mix & pour
		2	72	8.5	bentonite	20	dispense
	72	109.32	8.5	8/16 sand	10.6	dispense	

6. GEOLOGIC LOG OF WELL	DEPTH (FT)		THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?	
	FROM	TO				
	0	3	3	Brown gravelly to sandy loam	☐ YES ☒ NO	
	3	30	27	Pink gravelly sand	☐ YES ☒ NO	
	30	85	55	Pale brown sand & silty sand	☐ YES ☒ NO	
	85	110	25	Light yellowish brown sand	☒ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
	ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL					

7. TEST & ADDITIONAL INFO	WELL TEST	METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:
		TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	ADDITIONAL STATEMENTS OR EXPLANATIONS: Replacement recovery well for crude oil impacted groundwater	

8. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING.	
	 SIGNATURE OF DRILLER	6/16/2011 DATE

FOR USE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	FRN NUMBER
LOCATION		PAGE 2 OF 2

SOIL BORING / MONITORING WELL LOG

PROJECT: <u>C. S. Cayler Monitor Well Installation</u>	DRILLING COMPANY: <u>Talon LPE</u>
PROJECT NUMBER: <u>700376.049.01</u>	DRILLER: <u>Gabe</u>
CLIENT: <u>Plains Pipeline L.P.</u>	DRILLING METHOD: <u>Air Rotary</u>
BORING / WELL NUMBER: <u>MW-7A</u>	BORE HOLE DIAMETER: <u>7 7/8</u>
TOTAL DEPTH: <u>110</u>	SCREEN: Diam. <u>4</u> Length <u>30</u> Slot Size <u>0.010</u>
SURFACE ELEVATION: _____	CASING: Diam. <u>4</u> Length <u>74.21</u> Type <u>Sched. 40 PVC</u>
GEOLOGIST: <u>John Franklin</u>	DATE DRILLED: <u>4/19/11</u>

PAGE 1 of 1

Depth (FT.)	Soil Symbol	Well Construction	PID Readings	Samples	Sample Interval	Description Interval	Description of Stratum	Depth (FT.)
0			ND		0'-10'	0'	Caliche gravel & very fine to fine grained sand: off-white, slightly moist	0
			ND		10'-20'	10'	As above: dry gravelly sand	
20			4.1		20'-30'	20'	Gravelly sand: pink (7.5yr 7/3), very fine to fine grained, wind blown sand and weathered caliche fragments, dry, no hydrocarbon odor, moderately well graded	20
			3.6		30'-40'	30'	Gravelly sand: as above	
40			ND		40'-50'	40'	Gravelly sand: pink (7.5yr 7/3), very fine to fine grained sand, gravel size caliche fragments, some powdered caliche, silty in part, moderately well graded, dry, no hydrocarbon odor	40
			5.2		50'-60'	50'	Sand and weakly cemented sandstone, light reddish brown (5yr 6/3), very fine to medium grained, poorly graded, subangular, subspherical, dry, no hydrocarbon odor	
60			25.6		60'-70'	60'	Sand: as above	60
			255.0		70'-80'	70'	Sand and moderately well cemented sandstone: brown (7.5yr 6/3), fine to medium grained, subangular to subrounded, poorly graded, moderate hydrocarbon odor, moist	
80			120		80'-90'	80'	Sand and sandstone: as above, strong hydrocarbon odor, moist to wet, yellowish brown (10yr 5/4)	80
			16.9		90'-110'	90'	Sand and sandstone: as above, faint hydrocarbon odor, some very well cemented sandstone	
100						110'	Bottom of Hole	100

REMARKS:





WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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1. GENERAL AND WELL LOCATION	POD NUMBER (WELL NUMBER) MW-7A				OSE FILE NUMBER(S) N/A101				
	WELL OWNER NAME(S) Plains Pipeline, L.P.				PHONE (OPTIONAL) 713-646-4657 (Jeff Dann)				
	WELL OWNER MAILING ADDRESS 333 Clay St., Suite 1600				CITY Houston		STATE Texas	ZIP 77002	
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 52	SECONDS 4.11 N	* ACCURACY REQUIRED ONE TENTH OF A SECOND * DATUM REQUIRED WGS 84				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS Rural									
2. OPTIONAL	(2.5 ACRE) 1/4	(10 ACRE) 1/4	(40 ACRE) 1/4	(160 ACRE) 1/4	SECTION	TOWNSHIP ☐ NORTH ☐ SOUTH	RANGE ☐ EAST ☐ WEST		
	SUBDIVISION NAME				LOT NUMBER	BLOCK NUMBER	UNIT/TRACT		
	HYDROGRAPHIC SURVEY					MAP NUMBER	TRACT NUMBER		
3. DRILLING INFORMATION	LICENSE NUMBER 1575		NAME OF LICENSED DRILLER Shane Currie			NAME OF WELL DRILLING COMPANY Talon Drilling			
	DRILLING STARTED 4/19/11		DRILLING ENDED 4/19/11		DEPTH OF COMPLETED WELL (FT) 101.21	BORE HOLE DEPTH (FT) 110	DEPTH WATER FIRST ENCOUNTERED (FT) 87.67		
	COMPLETED WELL IS ☐ ARTESIAN ☐ DRY HOLE ☒ SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) 87.67			
	DRILLING FLUID ☒ AIR ☐ MUD ☐ ADDITIVES - SPECIFY								
	DRILLING METHOD ☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY								
	DEPTH (FT)		BORE HOLE DIA (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)	
	FROM	TO							
	+3		71.21	8.5	Schedule 40 PVC	Thread	4	0.237	N/A
	71.21		101.21	8.5	Schedule 40 PVC	Thread	4	0.237	0.010
4. WATER BEARING STRATA	DEPTH (FT)		THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)				YIELD (GPM)	
	FROM	TO							
	0	3	3	Gravelly sandy loam					
	3	50	47	Gravelly sand					
	50	85	35	Sand and silty sand					
	85	110	25	Sand and weakly cemented sandstone, water bearing				not tested	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA						TOTAL ESTIMATED WELL YIELD (GPM)			

FOR OSE INTERNAL USE

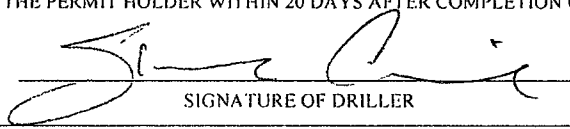
WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION	PAGE 1 OF 2	

5. SEAL AND PUMP	TYPE OF PUMP ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP - WELL NOT EQUIPPED ☐ TURBINE ☐ CYLINDER ☒ OTHER - SPECIFY: 4" pneumatic total fluids AP4						
	ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT)		BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
		FROM	TO				
		0	2	8.5	cement	0.5	mix & pour
		2	55	8.5	bentonite	15	dispense
	55	101.21	8.5	8/16 sand	13	dispense	

6. GEOLOGIC LOG OF WELL	DEPTH (FT)		THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?	
	FROM	TO				
	0	2	2	Light brown gravelly to sandy loam	☐ YES ☒ NO	
	2	50	48	Pink gravelly sand	☐ YES ☒ NO	
	50	85	35	Reddish brown sand	☐ YES ☒ NO	
	85	110	25	Brown sand	☒ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
	ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL					

7. TEST & ADDITIONAL INFO	WELL TEST	METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER - SPECIFY:
		TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD
	ADDITIONAL STATEMENTS OR EXPLANATIONS Replacement recovery well for crude oil impacted groundwater, above ground vault	

8. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING.	
	 SIGNATURE OF DRILLER	6/16/2011 DATE

FOR USE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

SOIL BORING / MONITORING WELL LOG

PROJECT: C. S. Cayler Monitor Well Installation

PROJECT NUMBER: 700376.049.01

CLIENT: Plains Pipeline L.P.

BORING / WELL NUMBER: MW-8A

TOTAL DEPTH: 110

SURFACE ELEVATION:

GEOLOGIST: John Franklin

DRILLING COMPANY: Talon LPE

DRILLER: Gabe

DRILLING METHOD: Air Rotary

BORE HOLE DIAMETER: 7 7/8

SCREEN: Diam. 4 Length 30 Slot Size 0.010

CASING: Diam. 4 Length 75.67 Type Sched. 40 PVC

DATE DRILLED: 4/20/11

PAGE 1 of 1

Depth (FT.)	Soil Symbol	Well Construction	PID Readings	Samples	Sample Interval	Description Interval	Description of Stratum	Depth (FT.)
0			ND		0'-10'	0'	0-3 - top soil: brown sandy loam with caliche gravel fragments	0
							Sandy Gravel: excavation backfill	
			ND		10'-20'	10'	Sandy gravel: excavation backfill	
20			3.2		20'-30'	20'	Gravelly sand:	20
						30'	Gravelly sand:	
40			27.8		30'-40'	40'		40
						40'-50'	Sand: very fine to fine grained, subangular, some gravel slough, poorly graded, pink (7.5yr 7/3), slightly moist, no hydrocarbon odor	
			7.4		50'-60'	50'	Sand: very fine to fine grained, subangular, subspherical, poorly graded, pink (5yr 7/3) slightly moist, no hydrocarbon odor	
60			55.3		60'-70'	60'	Sand: as above	60
						70'	Sand: as above, slightly moist, moderate hydrocarbon odor, some fine to medium grained weakly cemented sandstone	
80			110		70'-80'	80'		80
						80'-90'	Sand: faint hydrocarbon odor, moist wet, fine to medium grained, subangular, subspherical, poorly graded, brown (7.5yr 5/4), moderately well cemented sandstone	
			10.7		90'-100'	90'	Sand and sandstone: as above, wet, faint hydrocarbon odor	
100			24.0					100
						110'	bottom of hole	

REMARKS:





WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

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1. GENERAL AND WELL LOCATION	POD NUMBER (WELL NUMBER) MW-8A				OSE FILE NUMBER(S) N/A				
	WELL OWNER NAME(S) Plains Pipeline, L.P.				PHONE (OPTIONAL) 713-646-4657 (Jeff Dann)				
	WELL OWNER MAILING ADDRESS 333 Clay St. - Suite 1600				CITY Houston		STATE Texas	ZIP 77002	
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 52	SECONDS 5.05 N	* ACCURACY REQUIRED ONE TENTH OF A SECOND * DATUM REQUIRED WGS 84				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS Rural									
2. OPTIONAL	(2.5 ACRE) 1/4	(10 ACRE) 1/4	(40 ACRE) 1/4	(160 ACRE) 1/4	SECTION	TOWNSHIP ☐ NORTH ☐ SOUTH	RANGE ☐ EAST ☐ WEST		
	SUBDIVISION NAME				LOT NUMBER	BLOCK NUMBER	UNIT/TRACT		
	HYDROGRAPHIC SURVEY				MAP NUMBER		TRACT NUMBER		
3. DRILLING INFORMATION	LICENSE NUMBER 1575		NAME OF LICENSED DRILLER Shane Currie			NAME OF WELL DRILLING COMPANY Talon Drilling			
	DRILLING STARTED 4/20/11		DRILLING ENDED 4/20/11		DEPTH OF COMPLETED WELL (FT) 102.67	BORE HOLE DEPTH (FT) 110	DEPTH WATER FIRST ENCOUNTERED (FT) 88.27		
	COMPLETED WELL IS ☐ ARTESIAN ☐ DRY HOLE ☒ SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT) 88.27			
	DRILLING FLUID ☒ AIR ☐ MUD ☐ ADDITIVES - SPECIFY								
	DRILLING METHOD ☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY								
	DEPTH (FT)		BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)	
	FROM	TO							
	0		52.67	8.5	Schedule 40 PVC	Thread	4	0.237	
	52.67		102.67	8.5	Schedule 40 PVC	Thread	4	0.237	0.010
4. WATER BEARING STRATA	DEPTH (FT)		THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)				YIELD (GPM)	
	FROM	TO							
	0		3	3	Gravelly sandy loam				
	3		40	37	Gravelly sand				
	40		85	45	Sand and silty sand				
	85		110	25	Sand and weakly cemented sandstone, water bearing				not tested
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA						TOTAL ESTIMATED WELL YIELD (GPM)			

FOR OSE INTERNAL USE

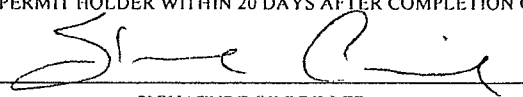
WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	FRN NUMBER
LOCATION		PAGE 1 OF 2

5. SEAL AND PUMP	TYPE OF PUMP ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED ☐ TURBINE ☐ CYLINDER ☒ OTHER – SPECIFY. 4" pneumatic total fluids AP4						
	ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT)		BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
		FROM	TO				
		0	2				
		2	50				
50	102.67	8.5	8/16 sand	15	dispense		

6. GEOLOGIC LOG OF WELL	DEPTH (FT)		THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?	
	FROM	TO			☐ YES	☒ NO
	0	2	2	Brown gravelly to sandy loam	☐ YES	☒ NO
	2	50	48	Pink gravelly sand	☐ YES	☒ NO
	50	85	35	Pink sand	☐ YES	☒ NO
	85	110	25	Brown sand	☒ YES	☐ NO
					☐ YES	☐ NO
					☐ YES	☐ NO
					☐ YES	☐ NO
					☐ YES	☐ NO
					☐ YES	☐ NO
					☐ YES	☐ NO
					☐ YES	☐ NO
					☐ YES	☐ NO
					☐ YES	☐ NO
	ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL					

7. TEST & ADDITIONAL INFO	WELL TEST	METHOD ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY
	TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD	
	ADDITIONAL STATEMENTS OR EXPLANATIONS Replacement recovery well for crude oil impacted groundwater	

8. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING	
	 SIGNATURE OF DRILLER	6/16/2011 DATE

FOR OSE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

SOIL BORING / MONITORING WELL LOG

PROJECT: C. S. Cayler Monitor Well Installation

DRILLING COMPANY: Talon LPE

PROJECT NUMBER: 700376.049.01

DRILLER: Gabe

CLIENT: Plains Pipeline L.P.

DRILLING METHOD: Mud Rotary

BORING / WELL NUMBER: MW-12A

BORE HOLE DIAMETER: 7 7/8

TOTAL DEPTH: 110

SCREEN: Diam. 4 Length 30 Slot Size 0.010

SURFACE ELEVATION:

CASING: Diam. 4 Length 82.06 Type Sched. 40 PVC

GEOLOGIST: John Franklin

DATE DRILLED: 4/19/11

PAGE 1 of 1

Depth (FT.)	Soil Symbol	Well Construction	PID Readings	Samples	Sample Interval	Description Interval	Description of Stratum	Depth (FT.)
0			ND		0'-10'	0'	Gravel: Well graded, 20% very fine to fine grained sand calcareous, pink, (7.5yr 7/3)	0
			ND		10'-20'	10'	Gravel: well graded, 10% fine sand, pink, 7.5yr 7/4	
20			ND		20'-30'	20'	Gravel: as above	20
			ND		30'-40'	30'	Gravel: well graded, 10% fine sand, pink, 7.5yr 7/4	
40			ND		40'-50'	40'	Sand: poorly graded, 15% gravel, pinkish gray (7.5yr 7/2)	40
			ND		50'-60'	50'	Sand: poorly graded, 15% gravel, light brown (7.5yr 6/3)	
60			ND		60'-70'	60'	Sand: as above	60
			ND		70'-80'	70'	Sand: very fine to fine grained, well sorted, subround, light brown (7.5yr 6/3), no hydrocarbon odor	
80			ND		80'-90'	80'	Sand: as above	80
			ND		90'-100'	90'	Sand: as above	
100			ND		100'-110'	100'	Well graded sand gravel mix, light brown (7.5yr 6/3, weakly cemented to unconsolidated	100
						110'	Bottom of Hole	

REMARKS:

TALON
LPE



WELL RECORD & LOG

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1. GENERAL AND WELL LOCATION	POD NUMBER (WELL NUMBER) MW-12A				OSE FILE NUMBER(S) N/A				
	WELL OWNER NAME(S) Plains Pipeline, L.P.				PHONE (OPTIONAL) 713-646-4657 (Jeff Dann)				
	WELL OWNER MAILING ADDRESS 333 Clay St. - Suite 1600				CITY Houston		STATE Texas	ZIP 77002	
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 52	SECONDS 2.17 N	* ACCURACY REQUIRED ONE TENTH OF A SECOND * DATUM REQUIRED WGS 84				
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS Rural									
2. OPTIONAL	(2.5 ACRE) 1/4	(10 ACRE) 1/4	(40 ACRE) 1/4	(160 ACRE) 1/4	SECTION	TOWNSHIP ☐ NORTH ☐ SOUTH	RANGE ☐ EAST ☐ WEST		
	SUBDIVISION NAME				LOT NUMBER	BLOCK NUMBER	UNIT/TRACT		
	HYDROGRAPHIC SURVEY				MAP NUMBER		TRACT NUMBER		
3. DRILLING INFORMATION	LICENSE NUMBER 1575		NAME OF LICENSED DRILLER Shane Currie			NAME OF WELL DRILLING COMPANY Talon Drilling			
	DRILLING STARTED 4/28/11		DRILLING ENDED 4/28/11		DEPTH OF COMPLETED WELL (FT) 108.06	BORE HOLE DEPTH (FT) 110	DEPTH WATER FIRST ENCOUNTERED (FT) 86.60		
	COMPLETED WELL IS ☐ ARTESIAN ☐ DRY HOLE ☒ SHALLOW (UNCONFINED)						STATIC WATER LEVEL IN COMPLETED WELL (FT) 86.60		
	DRILLING FLUID ☐ AIR ☒ MUD ☐ ADDITIVES - SPECIFY								
	DRILLING METHOD ☒ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY								
	DEPTH (FT)		BORE HOLE DIA (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)	
	FROM	TO							
	+3		78.06	8.5	Schedule 40 PVC	Thread	4	0.237	
	78.06		108.06	8.5	Schedule 40 PVC	Thread	4	0.237	0.010
4. WATER BEARING STRATA	DEPTH (FT)		THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)				YIELD (GPM)	
	FROM	TO							
	0	3	3	Gravelly sandy loam					
	3	50	27	Gravelly sand					
	50	87	55	Sand and silty sand					
	87	110	25	Sand and weakly cemented sandstone, water bearing				not tested	
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA						TOTAL ESTIMATED WELL YIELD (GPM)			

FOR OSE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	IRN NUMBER
LOCATION	PAGE: 1 OF 2	

5. SEAL AND PUMP	TYPE OF PUMP ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP - WELL NOT EQUIPPED ☐ TURBINE ☐ CYLINDER ☒ OTHER - SPECIFY 4" pneumatic total fluids AP4						
	ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT)		BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
		FROM	TO				
		0	3				
		3	73				
73	109.32	8.5	8/16 sand	10.3	dispense		

6. GEOLOGIC LOG OF WELL	DEPTH (FT)		THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?	
	FROM	TO				
	0	3	3	Brown gravelly to sandy loam	☐ YES	☒ NO
	3	30	27	Pink to light brown gravelly sand	☐ YES	☒ NO
	30	85	55	Pale brown sand & silty sand	☐ YES	☒ NO
	85	110	25	Light brown sand	☒ YES	☐ NO
					☐ YES	☐ NO
					☐ YES	☐ NO
					☐ YES	☐ NO
					☐ YES	☐ NO
					☐ YES	☐ NO
					☐ YES	☐ NO
					☐ YES	☐ NO
					☐ YES	☐ NO
					☐ YES	☐ NO
					☐ YES	☐ NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO	WELL TEST	METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER - SPECIFY TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD
	ADDITIONAL STATEMENTS OR EXPLANATIONS	
	Replacement recovery well for crude oil impacted groundwater	

8. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 SIGNATURE OF DRILLER	6-23-2011 DATE

FOR OSE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER

POD NUMBER

IRN NUMBER

LOCATION

PAGE 2 OF 2

KEY TO SYMBOLS

Symbol Description

Strata symbols



Well graded gravel



Well graded sand



Poorly graded sand



Well graded gravel
and sand



Silty sand



Silty sand and gravel

Misc. Symbols



Water table at
boring completion

Soil Samplers



Bulk/Grab sample

Monitor Well Details



Capped riser with locking
cover



Concrete seal



Bentonite pellets



Silica sand, blank PVC



Slotted pipe w/ sand



No pipe, filler material



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	POD NUMBER (WELL NUMBER) MW-7				OSE FILE NUMBER(S) N/A101				
	WELL OWNER NAME(S) Plains Pipeline, L.P.				PHONE (OPTIONAL) 713-646-4657 (Jeff Dann)				
	WELL OWNER MAILING ADDRESS 333 Clay St., Suite 1600				CITY Houston		STATE Texas	ZIP 77002	
	WELL LOCATION (FROM GPS)	DEGREES 32	MINUTES 52	SECONDS 4.08 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84				
		LONGITUDE 103		17		18.37 W			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS Rural									
2. OPTIONAL	(2.5 ACRE) 1/4	(10 ACRE) 1/4	(40 ACRE) 1/4	(160 ACRE) 1/4	SECTION	TOWNSHIP ☐ NORTH ☐ SOUTH	RANGE ☐ EAST ☐ WEST		
	SUBDIVISION NAME				LOT NUMBER	BLOCK NUMBER	UNIT/TRACT		
	HYDROGRAPHIC SURVEY				MAP NUMBER		TRACT NUMBER		
3. DRILLING INFORMATION	LICENSE NUMBER 1575		NAME OF LICENSED DRILLER Shane Currie			NAME OF WELL DRILLING COMPANY Talon Drilling			
	DRILLING STARTED 3/24/11		DRILLING ENDED 3/24/11		DEPTH OF COMPLETED WELL (FT) 85	BORE HOLE DEPTH (FT) 85	DEPTH WATER FIRST ENCOUNTERED (FT)		
	COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☒ SHALLOW (UNCONFINED)						STATIC WATER LEVEL IN COMPLETED WELL (FT)		
	DRILLING FLUID: ☒ AIR ☐ MUD ☐ ADDITIVES - SPECIFY:								
	DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☒ OTHER - SPECIFY: Hollow Stem Auger								
	DEPTH (FT)		BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)	
	FROM	TO							
	+3		70	8.25	Schedule 40 PVC	Thread	2	0.154	N/A
	70		85	8.25	Schedule 40 PVC	Thread	2	0.154	0.020
4. WATER BEARING STRATA	DEPTH (FT)		THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)				YIELD (GPM)	
	FROM	TO							
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA						TOTAL ESTIMATED WELL YIELD (GPM)			

FOR OSE INTERNAL USE

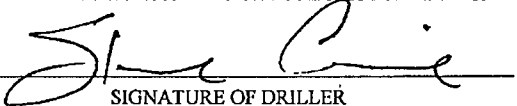
WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION	PAGE 1 OF 2	

5. SEAL AND PUMP	TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED ☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:						
	ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT)		BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
		FROM	TO				
		0	2				
		2	85				

6. GEOLOGIC LOG OF WELL	DEPTH (FT)		THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?	
	FROM	TO				
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
	ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL					

7. TEST & ADDITIONAL INFO	WELL TEST	METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:
		TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.
	ADDITIONAL STATEMENTS OR EXPLANATIONS: Plugging Report Unable to remove casing from hole	

8. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 SIGNATURE OF DRILLER	6/17/11 DATE

FOR OSE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER

POD NUMBER

TRN NUMBER

LOCATION

PAGE 2 OF 2



WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION	POD NUMBER (WELL NUMBER) MW-8				OSE FILE NUMBER(S) N/A101			
	WELL OWNER NAME(S) Plains Pipeline, L.P.				PHONE (OPTIONAL) 713-646-4657 (Jeff Dann)			
	WELL OWNER MAILING ADDRESS 333 Clay St., Suite 1600				CITY Houston		STATE Texas	ZIP 77002
	WELL LOCATION (FROM GPS)	DEGREES LATITUDE 32	MINUTES 52	SECONDS 4.86 N	* ACCURACY REQUIRED: ONE TENTH OF A SECOND * DATUM REQUIRED: WGS 84			
DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS Rural								
2. OPTIONAL	(2.5 ACRE) 1/4	(10 ACRE) 1/4	(40 ACRE) 1/4	(160 ACRE) 1/4	SECTION	TOWNSHIP ☐ NORTH ☐ SOUTH	RANGE ☐ EAST ☐ WEST	
	SUBDIVISION NAME				LOT NUMBER	BLOCK NUMBER	UNIT/TRACT	
	HYDROGRAPHIC SURVEY				MAP NUMBER		TRACT NUMBER	
3. DRILLING INFORMATION	LICENSE NUMBER 1575		NAME OF LICENSED DRILLER Shane Currie			NAME OF WELL DRILLING COMPANY Talon Drilling		
	DRILLING STARTED 3/24/11		DRILLING ENDED 3/24/11	DEPTH OF COMPLETED WELL (FT) 85	BORE HOLE DEPTH (FT) 85	DEPTH WATER FIRST ENCOUNTERED (FT)		
	COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☒ SHALLOW (UNCONFINED)					STATIC WATER LEVEL IN COMPLETED WELL (FT)		
	DRILLING FLUID: ☒ AIR ☐ MUD ☐ ADDITIVES - SPECIFY:							
	DRILLING METHOD: ☐ ROTARY ☐ HAMMER ☐ CABLE TOOL ☒ OTHER - SPECIFY: Hollow Stem Auger							
	DEPTH (FT)		BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
	FROM	TO						
	+3 70		8.25	Schedule 40 PVC	Thread	2	0.154	N/A
	70 85		8.25	Schedule 40 PVC	Thread	2	0.154	0.020
4. WATER BEARING STRATA	DEPTH (FT)		THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)			
	FROM	TO						
METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA					TOTAL ESTIMATED WELL YIELD (GPM)			

FOR OSE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION	PAGE 1 OF 2	

5. SEAL AND PUMP	TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP - WELL NOT EQUIPPED ☐ TURBINE ☐ CYLINDER ☒ OTHER - SPECIFY: 4" pneumatic total fluids AP4						
	ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT)		BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
		FROM	TO				
		0	2	2	1 bag of concrete		mix & pour
		2	85	2	bentonite 3/8" hole plug	2	top load

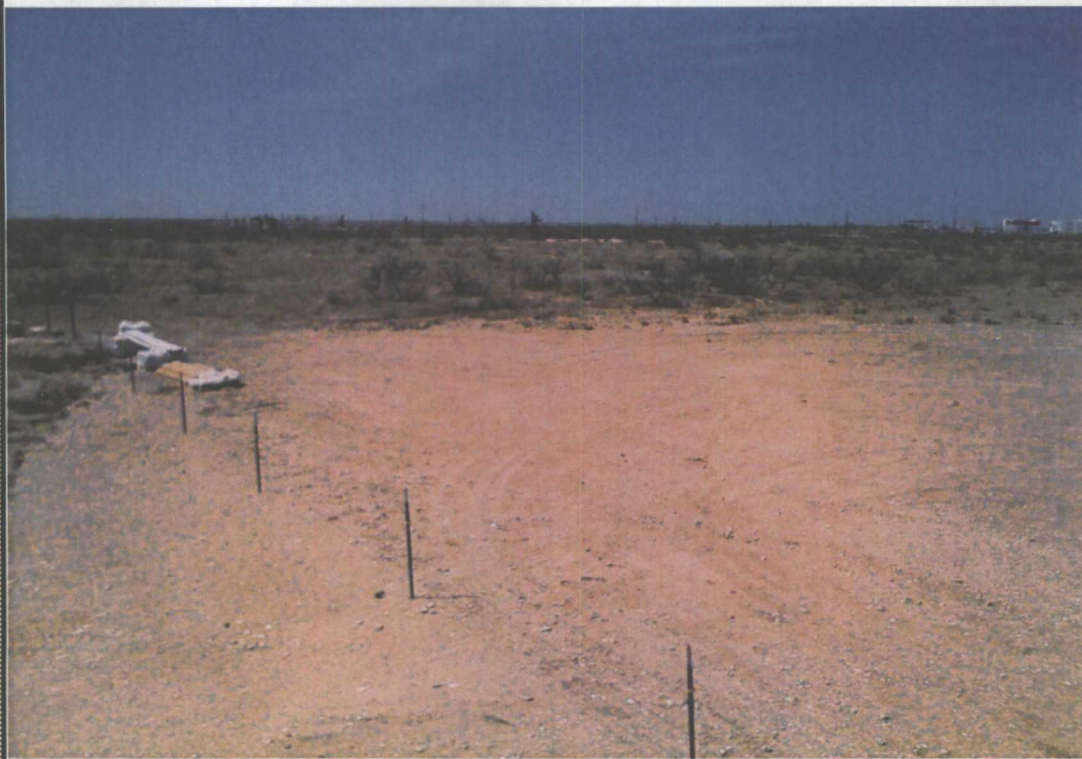
6. GEOLOGIC LOG OF WELL	DEPTH (FT)		THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?	
	FROM	TO				
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
					☐ YES ☐ NO	
	ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL					

7. TEST & ADDITIONAL INFO	WELL TEST	METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER - SPECIFY:				
		TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.				
	ADDITIONAL STATEMENTS OR EXPLANATIONS: Plugging Report Unable to remove casing from hole					

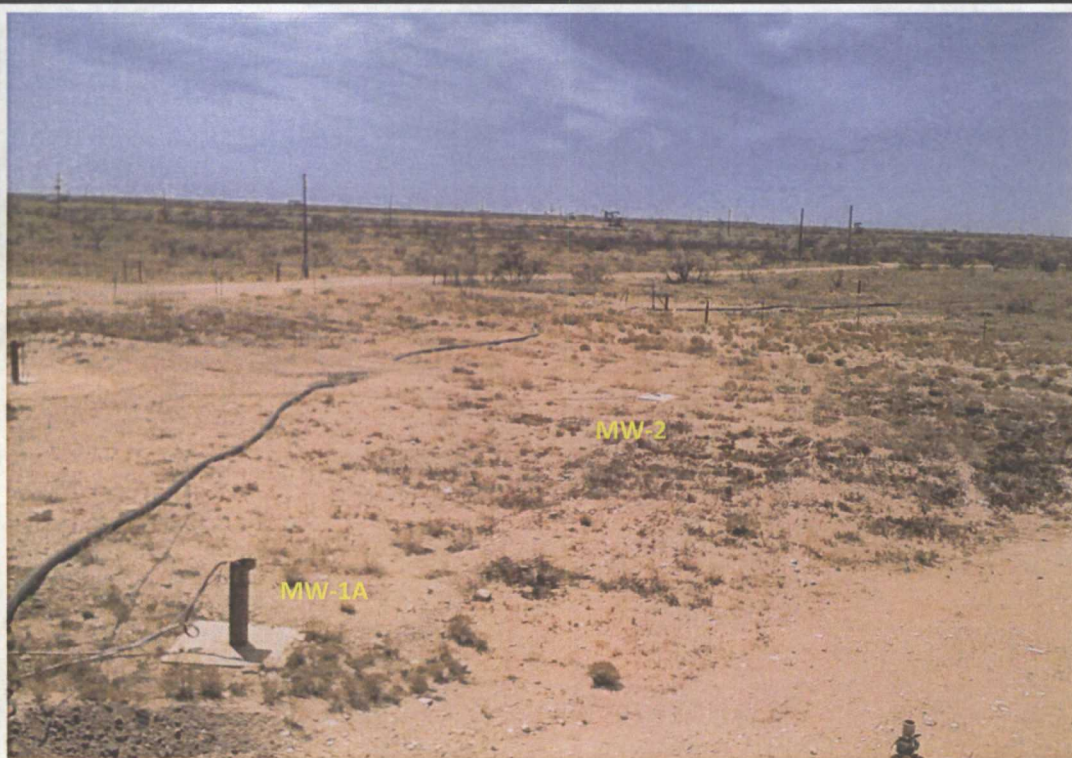
8. SIGNATURE	THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:	
	 SIGNATURE OF DRILLER	6/17/11 DATE

APPENDIX E

Photographic Documentation



View toward the west along the north fence of the Cayler compound



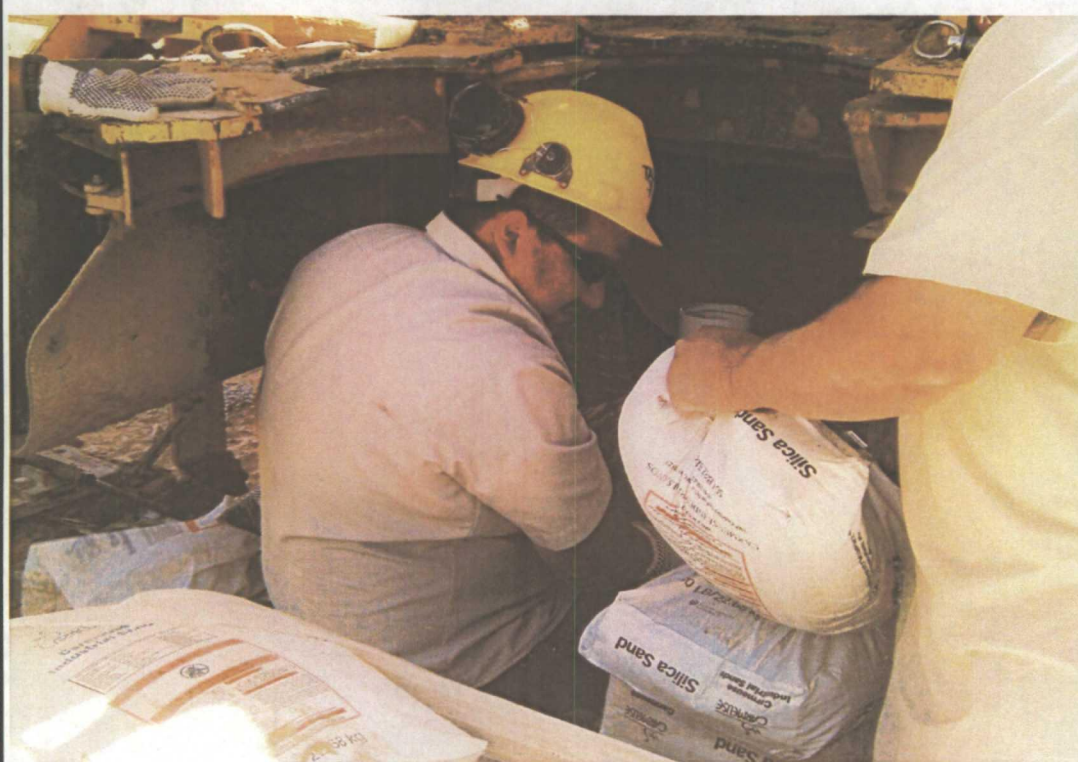
View toward the west of the Cayler compound



Project: Plains Pipeline - C. S. Cayler Drilling and Plugging
 Location: Lea County, New Mexico
 Date: April 19, 2011



Drilling MW-7A with air



Installing filter pack in MW-7A



Project: Plains Pipeline - C. S. Cayler Drilling and Plugging
 Location: Lea County, New Mexico
 Date: April 19, 2011



MW-7A above ground vault



Rigging up on MW-8A



Project: Plains Pipeline - C. S. Cayler Drilling and Plugging
Location: Lea County, New Mexico
Date: April 20, 2011



MW-8A above ground vault.



Drilling MW-2A with mud



Project: Plains Pipeline - C. S. Cayler Drilling and Plugging
Location: Lea County, New Mexico
Date: April 28, 2011



Collecting drill cuttings from shale shaker



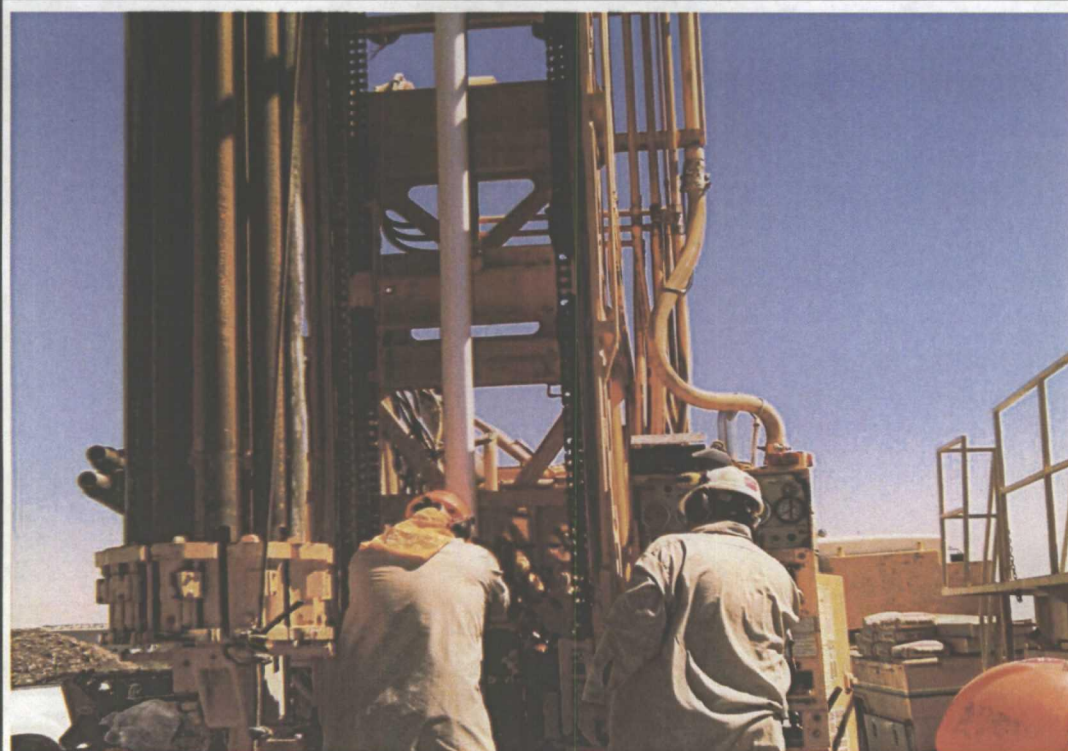
Installing casing in MW-2A



Project: Plains Pipeline - C. S. Cayler Drilling and Plugging
 Location: Lea County, New Mexico
 Date: April 28, 2011



Preparing to drill MW-12A



Installing casing in MW-12A



Project: Plains Pipeline - C. S. Cayler Drilling and Plugging
 Location: Lea County, New Mexico
 Date: April 28, 2011